



УНИВЕРЗИТЕТ У БЕОГРАДУ

ЕЛЕКТРОТЕХНИЧКИ ФАКУЛТЕТ

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Број: 1458/3
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На основу Чл.66 Закона о високом образовању ("Службени гласник РС", број 76/2005, 97/2008 и 44/2010), Наставно-научно веће Електротехничког факултета у Београду, на својој седници одржаној дана 19.9.2013. године, донело је

ОДЛУКУ

1. **Др Мирослав Крстић**, предлаже се за избор у звање **гостујућег професора**.
2. Предлог одлуке за избор у звање гостујућег професора, доставити Универзитету у Београду.
3. По достављању одлуке о избору у звање гостујућег професора од стране Универзитета у Београду, декан ће са именованим закључити уговор о ангажовању за извођење наставе.

Образложење

Наставно-научно веће Факултета је дана 11.6.2013. год., образовало Комисију за припрему извештаја о избору гостујућег професора у саставу: др Жељко Ђуровић, редовни професор Електротехничког факултета у Београду, др Срђан Станковић, професор емеритус (Електротехнички факултет) и др Бранко Ковачевић, редовни професор Електротехничког факултета у Београду.

Комисија је сачинила извештај и исти је достављен Наставно-научном већу на усвајање.

Наставно-научно веће је на својој седници од 19.9.2013. год., прихватило извештај Комисије и утврдило предлог да се др Мирослав Крстић изабере у звање гостујући професор, па је сходно томе донета одлука као у диспозитиву.

Доставити:
-Универзитету
-Одсеку за кадровске и опште послове
-Архиви

Председник Већа
Проф. др Бранко Ковачевић, Декан

НАСТАВНО-НАУЧНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Изборно веће Електротехничког факултета Универзитета у Београду на својој 763-ћој седници од 11.06.2013. године нас је именovalo за чланове Комисије за избор др Мирослава Крстића у звање гостујућег професора. Проучили смо материјал који нам је био на располагању и част нам је да Изборном већу поднесемо следећи

ЕЛЕКТРОТЕХНИЧКИ ФАКУЛТЕТ
БЕОГРАД

ИЗВЕШТАЈ

ПРИМЉЕНО: 03.09.2013			
Орг. јед.	Број	Прилог	Вредност
	1458/2		

Биографски подаци

Др Мирослав Крстић је рођен 14-ог септембра 1964. године у Пироту. Електротехнички факултет Универзитета у Београду је уписао 1984. године а дипломирао 1989. на Одсеку за електронику, телекомуникације и аутоматику. Непосредно након дипломирања, период 1989-1991. је провео као асистент на Катедри за аутоматско управљање на Рударском факултету Универзитета у Београду.

1991. године одлази на докторске студије на Универзитет Санта Барбара у САД. 1994. године брани докторат на овом универзитету и период од 1995. до 1997. године проводи као асистент-професор на Одсеку за механику Универзитета у Мериленду. 1997. године се запошљава на Универзитету у Сан Дијегу (*University of California, San Diego*) у звању ванредног професора, а 2000. године бира биран у звање редовног професора. 2005. године постаје директор Центра за управљање системима и динамику (*Cymer Center for Control Systems and Dynamics*). Тренутно обавља функцију проректора за истраживање на Универзитету Сан Дијего. У својој досадашњој каријери је био позиван са угледних универзитета да одређени период провед као гостујући професор (*UC Berkeley, Universite Diderot-Paris 6, University of Sheffield*). Обављао је велики број административних функција на Универзитету у Сан Дијегу.

Добитник је престижних награда и носилац почасних функција (*Fellow of IFAC, Fellow of IEEE, Presidential Early Career Award for Scientists and Engineers, Office of Naval Research Young Investigator Award, National Science Foundation Career Award, Distinguished Visiting Professor Award, Royal Academy of Engineering, United Kingdom, Russell Severance Springer Distinguished Visiting Professor, UC Berkeley, UCSD Diversity Award, UCSD Award for Research (1st from Engineering in 16 years; 2004 winner Roger Tsien, Nobel Prize in Chemistry), George S. Axelby Outstanding Paper Award, IEEE Trans. Automatic Control, O. Hugo Schuck Best Paper Award, American Automatic Control Council, ...*). Одржао је велики број предавања по позиву на угледним универзитетима у свету.

Наставу држи из предмета Сигнали и системи, Линеарно управљање, Робусно и мултиваријабилно управљање, Управљање системима са расподељеним параметрима, Нелинеарни системи и Нелинеарно управљање. Руководио је израдом 15 докторских дисертација и постдокторским студијама шеснаест кандидата, аутор је или коаутор девет уџбеника, његови научни радови из области нелинеарног управљања, управљања системима са дистрибуираним параметрима и системима са кашњењем су високо цитирани (само је монографија *Nonlinear and adaptive control design* цитирана 5579 пута). Има два патента.

Научно-стручни радови

Монографије

1. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, *Nonlinear and Adaptive Control Design*, Wiley, 1995. [Book Review]
2. M. Krstic and H. Deng, *Stabilization of Nonlinear Uncertain Systems*, Springer, 1998.
3. O. M. Aamo and M. Krstic, *Flow Control by Feedback*, Springer, 2002. [Book Review]
4. K. Ariyur and M. Krstic, *Real Time Optimization by Extremum Seeking Control*, Wiley, 2003. [Book Review]
5. M. Krstic and A. Smyshlyaev, *Boundary Control of PDEs: A Course on Backstepping Designs*, SIAM, 2008. [Book Review]
6. R. Vazquez and M. Krstic, *Control of Turbulent and Magnetohydrodynamic Channel Flows*, Birkhauser, 2007.
7. M. Krstic, *Delay Compensation for Nonlinear, Adaptive, and PDE Systems*, Birkhauser, 2009.
8. A. Smyshlyaev and M. Krstic, *Adaptive Control of Parabolic PDEs*, Princeton University Press, 2010.
9. S.-J. Liu and M. Krstic, *Stochastic Averaging and Stochastic Extremum Seeking*, Springer, 2012.

Поглавља у монографијама

10. M. Krstic and P. V. Kokotovic, "Estimation-based schemes for adaptive nonlinear state-feedback control," in K. J. Astrom, G. C. Goodwin, and P. R. Kumar (Eds.), *Adaptive Control, Filtering and Signal Processing*, New York: Springer-Verlag, 1995.
11. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear control," in W. S. Levine (Ed.), *The Control Handbook*, Boca Raton, FL: CRC Press, 1996.
12. P. V. Kokotovic and M. Krstic, "A new class of adaptive nonlinear systems," in *Communications, Computation, Control and Signal Processing: a tribute to Thomas Kailath*, A. Paulraj, V. Roychowdhury, C. D. Schaper (Eds.), Kluwer Academic Publishers, 1997.
13. P. V. Kokotovic and M. Krstic, "Adaptive nonlinear control: a Lyapunov approach," in *Control and Chaos*, K. Judd, A. Mees, K. L. Teo, T. L. Vincent (Eds.), Birkhauser, 1997.
14. M. Krstic and Z. H. Li, "Optimal adaptive tracking for nonlinear systems," in *Adaptive Control Systems*, G. Feng and R. Lozano-Leal (Eds.), Oxford: Butterworth-Heinemann, March 1999.
15. M. Krstic and H. Deng, "Output-feedback control of stochastic nonlinear systems: stabilization, disturbance attenuation, and adaptation," in *New Trends in Nonlinear Observer Design*, H. Nijmeijer and T. Fossen (Eds.), Springer, June 1999.
16. P. Kokotovic and M. Krstic, "Adaptive nonlinear control," in *EOLSS: Control Systems, Robotics, and Automation*, H. Unbehauen (Ed.), <http://www.eolss.net>.
17. A. Balogh and M. Krstic, "Infinite dimensional backstepping for nonlinear parabolic PDE's," in V. Blondel, A. Megretski (Eds.), R. Brockett, J.-M. Coron, M. Krstic, A. Rantzer, J. Rosenthal, E. Sontag, M. Vidyasagar, J. Willems (Assoc. Eds.), *Open Problems in Mathematical Systems and Control Theory*, MTNS 2002.
18. A. Smyshlyaev and M. Krstic, "Explicit formulae for boundary control of parabolic PDEs," in M. S. de Queiroz, M. Malisoff, and P. Wolenski (Eds.), *Optimal Control, Stabilization, and Nonsmooth Analysis*, Springer, 2004.
19. M. Krstic, "Mixing control for jet flows," in *Chemical Propulsion Systems*, G. Roy (Ed.), Elsevier, 2005.
20. A. Balogh and M. Krstic, "Global boundary stabilization of 2D Poiseuille flow," in P. Koumoutsakos and I. Mezic (Eds.), *Control of Fluid Flow*, Springer, 2006.

21. E. Schuster, M. Walker, D. Humphreys, and M. Krstic, "Anti-windup augmentation for plasma vertical stabilization in the DIII-D tokamak," in S. Tarbouriech, G. Garcia, A.H. Glattfelder (Eds.), *Advanced Strategies in Control Systems with Input and Output Constraints*, Springer-Verlag, 2007.
22. M. Krstic, J. Cochran, and R. Vazquez, "Backstepping Controllers for Stabilization of Turbulent Flow PDEs," in P. Ioannou and I. Pitsilides (Eds.), *Modeling and Control of Complex Systems*, CRC Press, 2007.
23. M. Krstic and R. Vazquez, "Magnetohydrodynamic channel flow: An exponentially convergent estimator with explicit gain functions," in S. Seenith (Ed.), *Nonlinear Problems in Aviation and Aerospace*, Cambridge Scientific Publishers, 2007.
24. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear stabilization of viscous Burgers PDE," in J. V. Devi (Ed.), *Advances in Theory, Methods and Applications in Dynamics and Control*, Cambridge Scientific Publishers, 2008.
25. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear control," in W. S. Levine (Ed.), 2nd edition, *The Control Handbook*, Taylor & Francis, to appear.
26. R. Vazquez and M. Krstic, "Stabilization of fluid flows," in W. S. Levine (Ed.), 2nd edition, *The Control Handbook*, Taylor & Francis, to appear.
27. S. Liu and M. Krstic, "Stabilization of stochastic nonlinear continuous-time systems," in W. S. Levine (Ed.), 2nd edition, *The Control Handbook*, Taylor & Francis, to appear.
28. A. Smyshlyaev and M. Krstic, "Boundary control of PDEs: The backstepping approach," in W. S. Levine (Ed.), 2nd edition, *The Control Handbook*, Taylor & Francis, to appear.
29. M. Krstic, "Compensation of input delay for linear, nonlinear, and adaptive systems," in J. Lévine and P. Müllhaupt (Eds.), *Advances in the Theory of Control, Signals and Systems, with Physical Modelling*, 2010.
30. M. Krstic, "Predictor feedback: Time-varying, adaptive, and nonlinear," in R. Sipahi, T. Vyhlidal, P. Pepe, and S.-I. Niculescu (Eds.), *Time Delay Systems—Methods, Applications and New Trends*, Springer, 2011.
31. P. Frihauf, M. Krstic, T. Basar, "Nash equilibrium seeking for dynamic systems with non-quadratic payoffs," in P. Crdaliaguet and R. Cressman (Eds.), *Advances in Dynamic Games*, 2012.

Радови у међународним научним часописима

1. M. Krstic, "Algorithms for calculating flow and pressure distribution in gas networks," *Nafta*, vol. 41, pp. 265--274, 1990.
2. M. Krstic, "General gas network design for a desired stationary flow/pressure distribution," *Nafta*, vol. 41, pp. 493--498, 1990.
3. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "Adaptive nonlinear control without overparametrization," *Systems Control Letters*, vol. 19, pp. 177--185, 1992.
4. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Transient performance improvement with a new class of adaptive controllers," *Systems Control Letters*, vol. 21, pp. 451--461, 1993.
5. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "Nonlinear design of adaptive controllers for linear systems," *IEEE Transactions on Automatic Control*, vol. 39, pp. 738-752, 1994.
6. M. Krstic and P. V. Kokotovic, "Observer-based schemes for adaptive nonlinear state-feedback control," *International Journal of Control*, vol. 59, pp. 1373--1381, 1994.
7. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "Passivity and parametric robustness of a new class of adaptive systems," *Automatica*, vol. 30, pp. 1703--1716, 1994.

8. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear design with controller-identifier separation and swapping." *IEEE Transactions on Automatic Control*, vol. 40, pp. 426--441, 1995.
9. M. Krstic and P. V. Kokotovic, "Control Lyapunov functions for adaptive nonlinear stabilization." *Systems Control Letters*, vol. 26, pp. 17--23, 1995.
10. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear output-feedback schemes with Marino-Tomei controller." *IEEE Transactions on Automatic Control*, vol. 41, pp. 274-80, 1996.
11. M. Krstic and P. V. Kokotovic, "Modular approach to adaptive nonlinear stabilization." *Automatica*, vol. 32, pp. 625--629, 1996.
12. M. Krstic, J. Sun and P. V. Kokotovic, "Robust control of nonlinear systems with input unmodeled dynamics." *IEEE Transactions on Automatic Control*, vol. 41, pp. 913--920, 1996.
13. M. Krstic, "Invariant manifolds and asymptotic properties of adaptive nonlinear stabilizers." *IEEE Transactions on Automatic Control*, vol. 41, pp. 817--829, 1996.
14. M. M. Monahemi and M. Krstic, "Control of wing rock motion using adaptive feedback linearization." *Journal of Guidance, Control, and Dynamics*, vol 19, pp. 905--912, 1996.
15. Z.-H. Li and M. Krstic, "Maximizing regions of attraction via backstepping and CLFs with singularities." *Systems and Control Letters*, vol. 30, pp. 195-207, 1997.
16. Z. H. Li and M. Krstic, "Optimal design of adaptive tracking controllers for nonlinear systems." *Automatica*, vol. 33, pp. 1459-1473, 1997.
17. H. Deng and M. Krstic, "Stochastic nonlinear stabilization---Part I: A backstepping design." *Systems and Control Letters*, vol. 32, pp. 143-150, 1997.
18. H. Deng and M. Krstic, "Stochastic nonlinear stabilization---Part II: Inverse optimality." *Systems and Control Letters*, vol. 32, pp. 151-159, 1997.
19. M. Krstic and Z. H. Li, "Inverse optimal design of input-to-state stabilizing nonlinear controllers." *IEEE Transactions on Automatic Control*, vol. 43, pp. 336-351, 1998.
20. F. Ikhouane and M. Krstic, "Robustness of the tuning functions adaptive backstepping design for linear systems." *IEEE Transactions on Automatic Control*, vol. 43, pp. 431-437, 1998.
21. Z.-H. Li and M. Krstic, "Geometric/asymptotic properties of adaptive nonlinear systems with partial excitation." *IEEE Transactions on Automatic Control*, vol. 43, pp. 419-425, 1998.
22. F. Ikhouane and M. Krstic, "Adaptive backstepping with parameter projection: robustness and asymptotic performance." *Automatica*, vol. 34, pp. 429-435, 1998.
23. M. Krstic, D. Fontaine, P. V. Kokotovic, and J. Paduano, "Useful nonlinearities and global bifurcation control of jet engine surge and stall." *IEEE Transactions on Automatic Control*, vol.43, p.1739-45, 1998.
24. R. A. Freeman, M. Krstic, and P. V. Kokotovic, "Robustness of adaptive nonlinear control to bounded uncertainties." *Automatica*, vol.34, p.1227-30, 1998.
25. H. Deng and M. Krstic, "Output-feedback stochastic nonlinear stabilization." *IEEE Transactions on Automatic Control*, vol.44, p.328-33, 1999.
26. M. Krstic and P. Tsiotras, "Inverse optimality results for the attitude motion of a rigid spacecraft." *IEEE Transactions on Automatic Control*, vol.44, p.1042-9, 1999.
27. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Self-tuning control of a nonlinear model of combustion instabilities." *IEEE Transactions on Control Systems Technology*, vol.7, p.424-436, 1999.
28. M. Krstic, "On global stabilization of Burgers' equation by boundary control." *Systems and Control Letters*, vol.37, p.123-142, 1999.
29. H.-H. Wang, M. Krstic, and G. Bastin, "Optimizing bioreactors by extremum seeking." *International Journal of Adaptive Control and Signal Processing*, vol. 13, pp. 651-669, 1999.

30. D. Boskovic and M. Krstic, "Global attitude/position regulation for underwater vehicles," *International Journal of Systems Science*, vol. 30, pp. 939-946, 1999.
31. K.B. Ariyur and M. Krstic, "Feedback attenuation and adaptive cancellation of blade-vortex interaction noise on a helicopter blade element," *IEEE Transactions on Control Systems Technology*, vol. 7, pp. 424-426, 1999.
32. H.-H. Wang, S. Yeung, and M. Krstic, "Experimental application of extremum seeking on an axial-flow compressor," *IEEE Transactions on Control Systems Technology*, vol. 8, pp. 300-309, 1999.
33. H. Deng and M. Krstic, "Output-feedback stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *Systems and Control Letters*, vol. 39, pp. 173-182, 2000.
34. H.-H. Wang and M. Krstic, "Extremum seeking for limit cycle minimization," *IEEE Transactions on Automatic Control*, vol. 45, pp. 2432-2436, 2000.
35. M. Krstic and H. H. Wang, "Stability of extremum seeking feedback for general dynamic systems," *Automatica*, vol. 36, pp. 595-601, 2000.
36. W.-J. Liu and M. Krstic, "Stability enhancement by boundary control in the Kuramoto-Sivashinsky equation," *Nonlinear Analysis*, vol. 43, pp. 485-583, 2000.
37. M. Krstic, "Performance improvement and limitations in extremum seeking control," *Systems & Control Letters*, vol. 39, pp. 313-326, 2000.
38. W.-J. Liu and M. Krstic, "Strong stabilization of the system of linear elasticity by a Dirichlet boundary feedback," *IMA Journal of Applied Mathematics*, vol. 65, pp. 109-121, 2000.
39. H.-H. Wang, M. Krstic, and M. Larsen, "Control of deep hysteresis aeroengine compressors," *Journal of Dynamic Systems, Measurement, and Control*, vol. 122, pp. 140-152, 2000.
40. A. Balogh and M. Krstic, "Burgers' equation with nonlinear boundary feedback: H^1 stability, well posedness, and simulation," *Mathematical Problems in Engineering*, vol. 6, pp. 189-200, 2000.
41. A. Balogh and M. Krstic, "Boundary control of the Korteweg-de Vries--Burgers equation: Further results on stabilization and numerical demonstration," *IEEE Transactions on Automatic Control*, vol. 45, pp. 1739-1745, 2000.
42. W.-J. Liu and M. Krstic, "Backstepping boundary control of Burgers' equation with actuator dynamics," *Systems & Control Letters*, vol. 41, pp. 291-303, 2000.
43. H. Ito and M. Krstic, "Recursive scaling design for robust global nonlinear stabilization via output feedback," *International Journal of Robust and Nonlinear Control*, vol. 10, pp. 821-48, 2000.
44. S. Murugappan, E. Gutmark, S. Acharya, and M. Krstic, "Extremum seeking adaptive controller of swirl-stabilized spray combustion," *Proceedings of the Combustion Institute*, vol. 28, 2000.
45. H. Deng, M. Krstic, and R. Williams, "Stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *IEEE Transactions on Automatic Control*, vol. 46, pp. 1237-1253, 2001.
46. W.-J. Liu and M. Krstic, "Global boundary stabilization of the Korteweg-de Vries-Burgers equation," *Computational and Applied Mathematics*, vol. 21, pp. 315-354, 2002.
47. W.-J. Liu and M. Krstic, "Adaptive control of Burgers' equation with unknown viscosity," *International Journal of Adaptive Control and Signal Processing*, vol. 15, pp. 745-766, 2001.
48. A. Balogh, W.-J. Liu, and M. Krstic, "Stability enhancement by boundary control in 2D channel flow" *IEEE Transactions on Automatic Control*, vol. 46, pp. 1696-1711, 2001.
49. J.-Y. Choi, M. Krstic, K. B. Ariyur, and J. S. Lee, "Extremum seeking control for discrete-time systems," *IEEE Transactions on Automatic Control*, vol. 47, pp. 318-323, 2002.
50. D. Boskovic and M. Krstic, "Nonlinear stabilization of a thermal convection loop by state feedback," *Automatica*, vol. 37, pp. 2033-2040, 2001.

51. D. Boskovic, M. Krstic, and W.-J. Liu, "Boundary control of an unstable heat equation via measurement of domain-averaged temperature." *IEEE Transactions on Automatic Control*, vol. 46, pp. 2022-2028, 2001.
52. A. Balogh and M. Krstic, "Infinite-dimensional backstepping-style feedback transformations for a heat equation with an arbitrary level of instability." *European Journal of Control*, vol. 8, pp. 165-177, 2002.
53. D. Boskovic and M. Krstic, "Backstepping control of chemical tubular reactors." *Computers and Chemical Engineering*, vol. 26, pp. 1077--1085, 2002.
54. D. Boskovic and M. Krstic, "Stabilization of a solid propellant rocket instability by state feedback." *International Journal of Robust and Nonlinear Control*, vol. 13, pp. 483-495, 2003.
55. D. Boskovic, A. Balogh, and M. Krstic, "Backstepping in infinite dimension for a class of parabolic distributed parameter systems." *Mathematics of Control, Signals, and Systems*, vol. 16, pp. 44-75, 2003.
56. A. Banaszuk, K. B. Ariyur, M. Krstic, and C. A. Jacobson, "An adaptive algorithm for control of combustion instability." *Automatica*, vol. 40, pp. 1965-1972, 2004.
57. P. Binetti, K. B. Ariyur, M. Krstic, and F. Bernelli, "Formation flight optimization using extremum seeking feedback." *AIAA Journal of Guidance, Control and Dynamics*, vol. 26, pp. 132--142, 2003.
58. E. Schuster, M. Krstic, and G. Tynan, "Burn control in fusion reactors via nonlinear stabilization techniques." *Fusion Science and Technology*, vol. 43, pp. 18--37, 2003.
59. A. Smyshlyaev and M. Krstic, "Explicit state and output feedback boundary controllers for partial differential equations." *Journal of Automatic Control*, University of Belgrade, vol. 13, pp. 1-9, 2003.
60. O. M. Aamo, M. Krstic, and T. R. Bewley, "Control of mixing by boundary feedback in 2D channel flow." *Automatica*, vol. 39, pp. 1597-1606, 2003.
61. A. Aliseda, K. Ariyur, O. Sarrazin, J. C. Lasheras, and M. Krstic, "Tailored fuel injection for pulsed detonation engines via feedback control." *AIAA Journal of Propulsion and Power*, vol. 19, pp. 917-921, 2003.
62. Y. Hu, O. Koroleva, and M. Krstic, "Nonlinear control of mine ventilation networks." *Systems and Control Letters*, vol. 49, pp. 239-254, 2003.
63. M. Krstic, "Discussion on: Adaptive extremum seeking control of fed-batch bioreactors." *European Journal of Control*, vol. 9, pp. 632-633, 2003.
64. E. Schuster and M. Krstic, "Control of a nonlinear PDE system arising from non-burning tokamak plasma transport dynamics." *International Journal of Control*, vol. 76, pp. 1116-1124, 2003.
65. K. Ariyur and M. Krstic, "Slope seeking: A generalization of extremum seeking." *International Journal of Adaptive Control and Signal Processing*, vol. 18, pp. 1-22, 2004.
66. O. M. Aamo and M. Krstic, "Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding." *European Journal of Control*, vol. 10, pp. 105-116, 2004.
67. A. Balogh, O. M. Aamo and M. Krstic, "Optimal mixing enhancement in 3D pipe flow." *IEEE Transactions on Control Systems Technology*, vol. 13, pp. 27-41, 2005.
68. M. Krstic, "Feedback linearizability and explicit integrator forwarding controllers for classes of feedforward systems." *IEEE Transactions on Automatic Control*, vol. 49, pp. 1668-1682, 2004.
69. O.-M. Aamo and M. Krstic, "Feedback control of particle dispersion in bluff body wakes." *International Journal of Control*, vol. 77, pp. 1001-1018, 2004.
70. C.C. Yuan, M. Krstic, and T. Bewley, "Active control of jet mixing." *IEE Proceedings: Control Theory and Applications*, vol. 151, pp. 763-772, 2004.
71. O.-M. Aamo, Andrey Smyshlyaev, and M. Krstic, "Boundary control of the linearized Ginzburg-Landau model of vortex shedding." *SIAM Journal of Control and Optimization*, vol. 43, pp. 1953-1971, 2005.

72. O. Koroleva and M. Krstic, "Averaging analysis of periodically forced fluid flow networks," *Automatica*, vol. 41, pp. 129-135, 2005.
73. A. Smyshlyaev and M. Krstic, "Closed form boundary state feedbacks for a class of partial integro-differential equations," *IEEE Transactions on Automatic Control*, vol. 49, pp. 2185-2202, 2004.
74. A. Balogh and M. Krstic, "Stability of partial difference equations governing control gains in infinite-dimensional backstepping," *Systems and Control Letters*, vol. 51, pp. 151-164, 2004.
75. E. Schuster, M. L. Walker, D. A. Humphreys, and M. Krstic, "Plasma vertical stabilization with actuator constraints in the DIII-D tokamak," *Automatica*, vol. 41, pp. 1173-1179, 2005.
76. A. Smyshlyaev and M. Krstic, "Backstepping observers for a class of parabolic PDEs," *Systems and Control Letters*, vol. 54, pp. 613-625, 2005.
77. R. Vazquez and M. Krstic, "Explicit integral operator feedback for local stabilization of nonlinear thermal convection loop PDEs," *Systems and Control Letters*, vol. 55, pp. 624-632, 2006.
78. A. Smyshlyaev and M. Krstic, "On control design for PDEs with space-dependent diffusivity and time-dependent reactivity," *Automatica*, vol. 41, pp. 1601-1608, 2005.
79. M. Krstic and A. Banaszuk, "Multivariable adaptive control of instabilities arising in jet engines," *Control Engineering Practice*, vol. 14, pp. 833-842, 2006.
80. N. Killingsworth and M. Krstic, "PID tuning using extremum seeking," *Control Systems Magazine*, vol. 26, pp. 70-79, February 2006.
81. M. Krstic, "Systematization of approaches to adaptive boundary control of PDEs," *International Journal of Robust and Nonlinear Control*, vol. 16, pp. 801-818, 2006.
82. O. Koroleva, M. Krstic, and G. Schmid-Schonbein, "Decentralized and adaptive control of nonlinear fluid flow networks," *International Journal of Control*, vol. 79, pp. 1495-1504, 2006.
83. M. Krstic and M. Bement, "Non-overshooting control of strict-feedback nonlinear systems," *IEEE Transactions on Automatic Control*, vol. 51, pp. 1938-1943, 2006.
84. C. Zhang, D. Arnold, N. Ghods, A. Siranosian, and M. Krstic, "Source seeking with nonholonomic unicycle without position measurement and with tuning of forward velocity," *Systems and Control Letters*, vol. 56, pp. 245-252, 2007.
85. C. Zhang, A. Siranosian, and M. Krstic, "Extremum seeking for moderately unstable systems and for autonomous vehicle target tracking without position measurements," *Automatica*, vol. 43, pp. 1832-1839, 2007.
86. O. M. Aamo, A. Smyshlyaev, M. Krstic, and B. Foss, "Stabilization of a Ginzburg-Landau model of vortex shedding by output-feedback boundary control," *IEEE Transactions on Automatic Control*, vol. 52, pp. 742-748, 2007.
87. W. Liu and M. Krstic, "Boundary feedback stabilization of homogeneous equilibria in unstable fluid mixtures," *International Journal of Control*, vol. 80, pp. 1-7, 2007.
88. M. Krstic and A. Smyshlyaev, "Adaptive boundary control for unstable parabolic PDEs - Part I: Lyapunov design," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1575-1591, 2008.
89. A. Smyshlyaev and M. Krstic, "Adaptive boundary control for unstable parabolic PDEs - Part II: Estimation-based designs," vol. 43, pp. 1543-1556, *Automatica*, 2007.
90. A. Smyshlyaev and M. Krstic, "Adaptive boundary control for unstable parabolic PDEs - Part III: Output-feedback examples with swapping identifiers," vol. 43, pp. 1557-1564, *Automatica*, 2007.
91. R. Vazquez and M. Krstic, "A closed-form feedback controller for stabilization of the linearized 2D Navier-Stokes Poiseuille flow," *IEEE Transactions on Automatic Control*, vol. 52, pp. 2298-2312, 2007.
92. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, "Output-feedback stabilization of an unstable wave equation," *Automatica*, vol. 44, pp. 63-74, 2008.

93. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, "Control of a tip-force destabilized shear beam by non-collocated observer-based boundary feedback," *SIAM Journal on Control and Optimization*, vol. 47, pp. 553-574, 2008.
94. E. Schuster, C. Xu, N. Torres, E. Morinaga, C. K. Allen, and M. Krstic, "Beam matching adaptive control via extremum seeking," *Nuclear Instruments and Methods in Physics Research A*, vol. 581, pp. 799-815, 2007.
95. E. Schuster, M. Krstic, and G. Tynan, "Nonlinear Lyapunov-based burn control of fusion reactors," *Fusion Engineering and Design*, vol. 64, pp. 567-575, 2002.
96. M. Krstic and A. Smyshlyaev, "Backstepping boundary control for first order hyperbolic PDEs and application to systems with actuator and sensor delays," *Systems & Control Letters*, vol. 57, pp. 750-758, 2008.
97. E. Schuster, L. Luo, and M. Krstic, "MHD channel flow control in 2D: Mixing enhancement by boundary feedback," *Automatica*, vol. 44, pp. 2498-2507, 2008.
98. R. Vazquez, E. Schuster, and M. Krstic, "Magnetohydrodynamic state estimation with boundary sensors," *Automatica*, vol. 44, pp. 2517-2527, 2008.
99. R. Vazquez, and M. Krstic, "Boundary observer for output-feedback stabilization of thermal convection loop," *IEEE Transactions on Control Systems Technology*, vol. 18, pp. 789-797, 2010.
100. C. Xu, E. Schuster, R. Vazquez, and M. Krstic, "Stabilization of linearized 2D magnetohydrodynamic channel flow by backstepping boundary control," *Systems & Control Letters*, vol. 57 pp. 805-812, 2008.
101. R. Vazquez and M. Krstic, "Control of 1-D parabolic PDEs with Volterra nonlinearities – Part I: Design," *Automatica*, vol. 44, pp. 2778-2790, 2008.
102. R. Vazquez and M. Krstic, "Control of 1-D parabolic PDEs with Volterra nonlinearities – Part II: Analysis," *Automatica*, vol. 44, pp. 2791-2803, 2008.
103. C. Manzie and M. Krstic, "Extremum seeking with stochastic perturbations," *IEEE Transactions on Automatic Control*, vol. 54, pp. 580-585, 2009.
104. J. Cochran and M. Krstic, "Nonholonomic source seeking with tuning of angular velocity," *IEEE Transactions on Automatic Control*, vol. 54, pp. 717-731, 2009.
105. A. Smyshlyaev, Y. Orlov, and M. Krstic, "Adaptive identification of two unstable PDEs with boundary sensing and actuation," *International Journal of Adaptive Control and Signal Processing*, vol 23, pp. 131-149, 2009.
106. M. Krstic, "On compensating long actuator delays in nonlinear control," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1684--1688, 2008.
107. M. Krstic, "Lyapunov tools for predictor feedbacks for delay systems: Inverse optimality and robustness to delay mismatch," *Automatica*, vol. 44, pp. 2930-2935, 2008.
108. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear stabilization of shock-like unstable equilibria in the viscous Burgers PDE," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1678-1683, 2008.
109. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear control of the viscous Burgers equation: Trajectory generation, tracking, and observer design," *Journal of Dynamic Systems, Measurement, and Control*, vol. 131, paper 021012 (8 pages), 2009.
110. M. Krstic and A. Smyshlyaev, "Adaptive control of PDEs," *Annual Reviews in Control*, vol 32, pp. 149-160, 2008.
111. M. Krstic, "Optimal adaptive control – Contradiction in terms or a matter of choosing the right cost functional?," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1942-1947, 2008.
112. N. J. Killingsworth, M. Krstic, D. L. Flowers, F. Espinoza-Loza, T. Ross, and S. M. Aceves, "HCCI engine combustion timing control: Optimizing gains and fuel consumption via extremum seeking," *IEEE Transactions on Control Systems Technology*, vol. 17, pp. 1350-1361, 2009.

113. J. Cochran and M. Krstic, "Motion planning and trajectory tracking for the 3-D Poiseuille flow," *Journal of Fluid Mechanics*, vol. 626, pp. 307-332, 2009.
114. M. Krstic, "On using least-squares updates without regressor filtering in identification and adaptive control of nonlinear systems," *Automatica*, vol. 45, pp. 731-735, 2009.
115. J. Cochran, N. Ghods, A. Siranosian, and M. Krstic, "3D source seeking for underactuated vehicles without position measurement," *IEEE Transactions on Robotics*, vol. 25, pp. 117-129, 2009.
116. A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, "Motion planning and tracking for tip displacement and deflection angle for flexible beams," *Journal of Dynamic Systems, Measurement, and Control*, vol. 131, 2009.
117. R. Vazquez, E. Schuster, and M. Krstic, "A closed-form full-state feedback controller for stabilization of 3D magnetohydrodynamic channel flow," *Journal of Dynamic Systems, Measurement, and Control*, vol. 131, 2009.
118. A. Smyshlyaev, B.-Z. Guo, and M. Krstic, "Arbitrary decay rate for Euler-Bernoulli beam by backstepping boundary feedback," *IEEE Transactions on Automatic Control*, vol. 54, pp. 1134-1141, 2009.
119. M. Krstic, "Compensating actuator and sensor dynamics governed by diffusion PDEs," *Systems and Control Letters*, vol. 58, pp. 372-377, 2009.
120. M. Krstic, "Compensating a string PDE in the actuation or sensing path of an unstable ODE," *IEEE Transactions on Automatic Control*, vol. 54, pp. 1362-1368, 2009.
121. M. Krstic, "Input delay compensation for forward complete and feedforward nonlinear systems," *IEEE Transactions on Automatic Control*, vol. 55, pp. 287-303, 2010.
122. A. Smyshlyaev and M. Krstic, "Boundary control of an anti-stable wave equation with anti-damping on the uncontrolled boundary," *Systems & Control Letters*, vol. 58, pp. 617-623, 2009.
123. D. Bresch-Pietri and M. Krstic, "Adaptive trajectory tracking despite unknown input delay and plant parameters," *Automatica*, vol. 45, pp. 2075-2081, 2009.
124. J. Cochran, E. Kanso, S. D. Kelly, H. Xiong, M. Krstic, "Source seeking for two nonholonomic models of fish locomotion," *IEEE Transactions on Robotics*, vol. 25, pp. 1166-1176, 2009.
125. M. Krstic, "Lyapunov stability of linear predictor feedback for time-varying input delay," *IEEE Transactions on Automatic Control*, vol. 55, pp. 554-559, 2010.
126. M. Krstic, "Control of an unstable reaction-diffusion PDE with long input delay," *Systems and Control Letters*, vol. 58, pp. 773-782, 2009.
127. M. Krstic, "Compensation of infinite-dimensional actuator and sensor dynamics: Nonlinear and delay-adaptive systems," *IEEE Control Systems Magazine*, vol. 30, pp. 22-41, 2010.
128. G. A. Susto and M. Krstic, "Control of PDE-ODE cascades with Neumann interconnections," *Journal of the Franklin Institute*, invited special issue Dynamics and Control, guest editor F. Udwardia, vol. 347, pp. 284-314, 2010.
129. N. Ghods and M. Krstic, "Speed regulation in steering-based source seeking," *Automatica*, vol. 46, pp. 452-459, 2010.
130. A. Smyshlyaev, E. Cerpa, and M. Krstic, "Boundary stabilization of a 1-D wave equation with in-domain anti-damping," *SIAM Journal of Control and Optimization*, vol. 48, pp. 4014-4031, 2010.
131. S.-J. Liu and M. Krstic, "Continuous-time stochastic averaging on infinite interval for locally Lipschitz systems," *SIAM Journal of Control and Optimization*, vol. 48, pp. 3589-3622, 2010.
132. N. Bekiaris-Liberis and M. Krstic, "Delay-adaptive feedback for linear feedforward systems," *Systems and Control Letters*, vol. 59, pp. 277-283, 2010.
133. M. Krstic, "Adaptive control of an anti-stable wave PDE," *Dynamics of Continuous, Discrete, and Impulsive Systems*, invited paper in the special issue in the honor of Professor Hassan Khalil, vol. 17, pp. 853-882, 2010.

- 134.S.-J. Liu and M. Krstic, "Stochastic averaging in continuous time and its applications to extremum seeking," *IEEE Transactions on Automatic Control*, vol. 55, pp. 2235-2250, 2010.
- 135.S.-J. Liu and M. Krstic, "Stochastic source seeking for nonholonomic unicycle," *Automatica*, vol. 46, pp. 1443-1453, 2010.
- 136.M. Krstic, "Dead-time compensation for wave/string PDEs," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol 133, paper 031004 (13 pages), 2011.
- 137.A. Smyshlyaev, T. Meurer, and M. Krstic, "Further results on stabilization of shock-like equilibria of the viscous Burgers PDE," *IEEE Transactions on Automatic Control*, vol. 55, pp. 1942-1946, 2010.
- 138.D. Bresch-Pietri and M. Krstic, "Delay-adaptive predictor feedback for systems with unknown long actuator delay," *IEEE Transactions on Automatic Control*, vol. 55, pp. 2106-2112, 2010.
- 139.M. Krstic and N. Bekiaris-Liberis, "Compensation of infinite-dimensional input dynamics," *IFAC Annual Reviews*, vol. 34, pp. 233-244, 2010.
- 140.N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of a wave PDE in the actuation or sensing path of MIMO LTI Systems," *Systems & Control Letters*, vol. 59, pp. 713-719, 2010.
- 141.N. Bekiaris-Liberis and M. Krstic, "Stabilization of linear strict-feedback systems with delayed integrators," *Automatica*, vol. 46, pp. 1902-1910, 2010.
- 142.N. Bekiaris-Liberis and M. Krstic, "Lyapunov stability of linear predictor feedback for distributed input delay," *IEEE Transactions on Automatic Control*, vol. 56, pp. 655-660, 2011.
- 143.N. Bekiaris-Liberis and M. Krstic, "Compensating distributed effect of diffusion and counter-convection in multi-input and multi-output LTI systems," *IEEE Transactions on Automatic Control*, vol. 56, pp. 637-642, 2011.
- 144.J.-M. Wang, B.-Z. Guo, and M. Krstic, "Wave equation stabilization by delays equal to even multiples of wave propagation time," *SIAM Journal of Control and Optimization*, vol. 49, pp. 517-554, 2011.
- 145.N. Ghods and M. Krstic, "Source seeking with very slow or drifting sensors," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 133, paper 044504 (8 pages), 2011.
- 146.P. Frihauf and M. Krstic, "Leader-enabled deployment into planar curves: A PDE-based approach," *IEEE Transactions on Automatic Control*, vol. 56, pp. 1791-1806, 2011.
- 147.N. Ghods and M. Krstic, "Multiagent deployment over a source," *IEEE Transactions on Control Systems Technology*, vol. 20, pp. 277-285, 2012.
- 148.A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, "Gain scheduling-inspired control for nonlinear PDEs," *Journal of Dynamic Systems, Measurement, and Control*, paper 051007-1, vol. 133, 2011.
- 149.M. Krstic, B.-Z. Guo, and A. Smyshlyaev, "Boundary controllers and observers for the linearized Schrodinger equation," *SIAM Journal of Control and Optimization*, vol. 49, 1479-1497, 2011.
- 150.S.-J. Liu and M. Krstic, "Stochastic Nash equilibrium seeking for games with general nonlinear payoffs," *SIAM Journal of Control and Optimization*, vol. 49, pp. 1659-1679, 2011.
- 151.J. Gray, M. Krstic, N. Chaturvedi, "Parameter identification for electrohydraulic valvetrain systems," *ASME Journal of Dynamic Systems, Measurement, and Control*, paper 064502 (8 pages), vol. 113, 2011.
- 152.T. Meurer and M. Krstic, "Finite-time multi-agent deployment: A nonlinear PDE motion planning approach," *Automatica*, vol. 37, pp. 2534-2542, 2011.

- 153.J. P. Krieger and M. Krstic, "Extremum seeking based on atmospheric turbulence for aircraft endurance," *AIAA Journal of Guidance, Control, and Dynamics*, vol. 34, pp. 1876-1885, 2011.
- 154.N. Bekiaris-Liberis and M. Krstic, "Compensation of time-varying input and state delays for nonlinear systems," *Journal of Dynamic Systems, Measurement, and Control*, vol. 134, paper 011009, 2012.
- 155.J.-M. Wang, B. Ren, and M. Krstic, "Stabilization and Gevrey regularity of a Schrodinger equation in boundary feedback with a heat equation," *IEEE Transactions on Automatic Control*, vol. 57, pp. 179-185, 2012.
- 156.I. Karafyllis and M. Krstic, "Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold," *IEEE Transactions on Automatic Control*, vol. 57, pp. 1141-1154, 2012.
- 157.P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking in non-cooperative games," *IEEE Transactions on Automatic Control*, vol. 57, pp. 1192-1207, 2012.
- 158.B. Ren, P. Frihauf, R. Rafac, and M. Krstic, "Laser pulse shaping via extremum seeking," *Control Engineering Practice*, vol. 20, pp. 678-683, 2012.
- 159.I. Karafyllis and M. Krstic, "Global stabilization of feedforward systems under perturbations in sampling schedule," *SIAM Journal of Control and Optimization*, vol. 50, pp. 1389-1412, 2012.
- 160.F. Mazenc, S.-I. Niculescu, and M. Krstic, "Lyapunov-Krasovskii functionals and application to input delay compensation for linear time-invariant systems," *Automatica*, vol. 48, pp. 1317-1323, 2012.
- 161.A. Ghaffari, M. Krstic, and D. Nesic, "Multivariable Newton-based extremum seeking," *Automatica*, vol. 48, pp. 1759-1767, 2012.
- 162.N. Bekiaris-Liberis and M. Krstic, "Compensation of state-dependent input delay for nonlinear systems," *IEEE Transactions on Automatic Control*, to appear.
- 163.N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Compensation of state-dependent state delay for nonlinear systems," *Systems & Control Letters*, vol. 61, pp. 894-856, 2012.
- 164.N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Adaptive stabilization of LTI systems with distributed input delay," *International Journal of Adaptive Control and Signal Processing*, vol. 27, pp. 46-65, 2013.
- 165.H. I. Basturk and M. Krstic, "Adaptive cancellation of matched unknown sinusoidal disturbances for LTI systems by state derivative feedback," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 153, paper 014501-2, 2013.
- 166.J. Krieger and M. Krstic, "Aircraft endurance maximization at medium Mach numbers by extremum seeking," *AIAA Journal of Guidance, Control, and Dynamics*, vol. 36, pp. 390-403, 2013.
- 167.B. Ren, J.-M. Wang, and M. Krstic, "Stabilization of an ODE-Schrodinger cascade," *Systems & Control Letters*, vol. 62, pp. 503-510, 2013.
- 168.N. Bekiaris-Liberis and M. Krstic, "Robustness of nonlinear predictor feedback laws to time- and state-dependent delay perturbations," *Automatica*, vol. 49, pp. 1576-1590, 2013.
- 169.A. Scheinker and M. Krstic, "Maximum-seeking for CLFs: Universal semiglobally stabilizing feedback under unknown control directions," *IEEE Transactions on Automatic Control*, vol. 58, pp. 1107-1122, 2013.
- 170.I. Karafyllis and M. Krstic, "Delay-robustness of linear predictor feedback without restriction on delay rate," *Automatica*, vol. 49, pp. 1761-1767, 2013.
- 171.J.-M. Coron, R. Vazquez, M. Krstic, and G. Bastin, "Local exponential H2 stabilization of a 2x2 quasilinear hyperbolic system using backstepping," *SIAM Journal of Control and Optimization*, vol. 51, pp. 2005-2035, 2013.
- 172.N. Bekiaris-Liberis and M. Krstic, "Nonlinear control under delays that depend on delayed states," *European Journal of Control*, vol. 19, pp. 389-398, 2013.

- 173.P. Frihauf, M. Krstic, and T. Basar, "Finite-horizon LQ control for unknown discrete-time linear systems via extremum seeking," *European Journal of Control*, vol. 19, pp. 399-407, 2013.
- 174.A. Paranjape, S.-J. Chung, and M. Krstic, "PDE boundary control for flexible articulated wings on a robotic aircraft," *IEEE Transactions on Robotics*, vol. 29, pp. 625-640, 2013.
- 175.H. Basturk and M. Krstic, "Adaptive wave cancellation by acceleration feedback for ramp-connected air cushion-actuated surface effect ships," *Automatica*, vol. 49, pp. 2591-2602, 2013.
- 176.G. Prior and M. Krstic, "A quantized-input control Lyapunov approach for motor drives," *IEEE Transactions on Control Systems Technology*, vol. 21, pp. 1784-1794, 2013.
- 177.A. Scheinker, M. Bland, M. Krstic, and J. Audia, "Rise-time optimization of accelerator high voltage converter modulator by extremum seeking," *IEEE Transactions on Control Systems Technology*, to appear.
- 178.I. Karafyllis and M. Krstic, "Robust predictor feedback for discrete-time systems with input delays," *International Journal of Control*, to appear.
- 179.M. Böhm, M. Krstic, S. Kuchler, and O. Sawodny, "Modelling and boundary control of a hanging rope immersed in water," *ASME Journal of Dynamic Systems, Measurement, and Control*, to appear.
- 180.S. Moura, M. Krstic, and N. Chaturvedi, "Adaptive PDE observer for battery SOC/SOH estimation via an electrochemical model," *ASME Journal of Dynamic Systems, Measurement, and Control*, to appear.
- 181.F. Di Meglio, R. Vazquez, and M. Krstic, "Stabilization of a system of $n + 1$ coupled first-order hyperbolic linear PDEs with a single boundary input," *IEEE Transactions on Automatic Control*, to appear.
- 182.M. Krstic and N. Bekiaris-Liberis, "Nonlinear stabilization in infinite dimension," *Annual Reviews in Control*, to appear.
- 183.I. Karafyllis and M. Krstic, "Stabilization of nonlinear delay systems using approximate predictors and high-gain observers," *Automatica*, to appear.
- 184.S.-J. Liu and M. Krstic, "Newton-based stochastic extremum seeking," under review.
- 185.I. Karafyllis and M. Krstic, "Numerical schemes for nonlinear predictor feedback," under review.
- 186.G. Prior and M. Krstic, "A control Lyapunov approach for finite control set MPC of permanent magnet synchronous motors," under review.
- 187.A. Scheinker and M. Krstic, "Non- C^2 Lie bracket averaging for non-smooth extremum seekers," under review.
- 188.J.-M. Wang and M. Krstic, "Stability of an interconnected system of Euler-Bernoulli beam and heat equation with boundary coupling," under review.
- 189.J.-Y. Choi and M. Krstic, "Compensation of time-varying input delay for discrete-time nonlinear systems," under review.
- 190.R. Vazquez and M. Krstic, "Marcum Q-functions and explicit kernels for stabilization of 2×2 linear hyperbolic systems with constant coefficients," under review.
- 191.G. Prior and M. Krstic, "Control Lyapunov modulation methods for motor drive systems," under review.
- 192.N. Bekiaris-Liberis and M. Krstic, "Compensation of wave actuator dynamics for nonlinear systems," under review.
- 193.A. Ghaffari, M. Krstic, and S. Seshagiri, "Power optimization and control in wind energy conversion systems using extremum seeking," under review.
- 194.A. Ghaffari, S. Seshagiri, and M. Krstic, "Power optimization for photovoltaic micro-converters using multivariable gradient extremum seeking," under review.
- 195.A. Scheinker and M. Krstic, "Extremum seeking with bounded update rates," under review.
- 196.A. Ghaffari, M. Krstic, and S. Seshagiri, "Power optimization for photovoltaic micro-converters using multivariable Newton-based extremum seeking," under review.

- 197.X. Cai and M. Krstic "Nonlinear control under wave actuator dynamics with time- and state-dependent moving boundary," under review.
- 198.I. Karafyllis, M. Krstic, T. Ahmed-Ali, F. Lamnabhi-Lagarrigue, "Global stabilization of nonlinear delay systems with a compact absorbing set," under review.
- 199.H. I. Basturk, B. Rosenthal, M. Krstic, "Pitch control design for tandem lifting body catamaran by aft lifting body actuation," under review.
- 200.P. Frihauf, S.-J. Liu, and M. Krstic, "Stochastic source seeking for a unicycle swarm controlled by a common forward velocity," under review.
- 201.D. Bresch-Pietri and M. Krstic, "Output-feedback adaptive control of a wave PDE with boundary anti-damping," under review.

Радови у зборницима радова међународних конференција

1. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "Interlaced controller-observer design for adaptive nonlinear control," *Proceedings of the 1992 American Control Conference*, Chicago, IL, pp. 1337--1342, 1992.
2. P. V. Kokotovic, I. Kanellakopoulos, M. Krstic, "On letting adaptive control be what it is: nonlinear feedback," in L. Dugard, M. M'Saad and I. Landau (Eds.), *Adaptive Systems in Control and Signal Processing 1992*, Oxford, UK: Pergamon Press, 1993, pp. 79--85.
3. P. V. Kokotovic, M. Krstic and I. Kanellakopoulos, "Backstepping to passivity: recursive design of adaptive systems," *Proceedings of the 31st IEEE Conference on Decision and Control*, Tucson, AZ, pp. 3276--3280, 1992.
4. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "A new generation of adaptive controllers for linear systems," *Proceedings of the 31st IEEE Conference on Decision and Control*, Tucson, AZ, pp. 3644--3650, 1992.
5. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "Passivity and parametric robustness of a new class of adaptive systems," *Proceedings of the 12th IFAC World Congress*, Sydney, Australia, vol. 3, pp. 1--8, 1993.
6. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Performance analysis for recursive passive adaptive controllers," *Proceedings of the 1993 IEEE Conference on Aerospace Control Systems*, Westlake Village, CA, pp. 195--199.
7. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Adaptive nonlinear output-feedback control with an observer-based identifier," *Proceedings of the 1993 American Control Conference*, San Francisco, CA, pp. 2821--2825, 1993.
8. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "Trajectory initialization in adaptive nonlinear control," *Proceedings of the 1993 IEEE Mediterranean Symposium on New Directions in Control Theory*, Chania, Greece, 1993.
9. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear control with nonlinear swapping," *Proceedings of the 32nd IEEE Conference on Decision and Control*, San Antonio, TX, pp. 1073--1080, 1993.
10. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "-adaptive control of output-feedback nonlinear systems," *Proceedings of the 32nd IEEE Conference on Decision and Control*, San Antonio, TX, pp. 1061--1066, 1993.
11. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear output-feedback schemes with Marino-Tomei controller," *Proceedings of the 1994 American Control Conference*, Baltimore, MD, pp. 861--866, 1994.
12. M. Krstic, J. Sun and P. V. Kokotovic, "Control of feedback linearizable systems with input unmodeled dynamics," *Proceedings of the 33rd IEEE Conference on Decision and Control*, Lake Buena Vista, FL, pp. 1633--1638, 1994.
13. P. V. Kokotovic, R. A. Freeman, and M. Krstic, "Robust and adaptive nonlinear control," *Proceedings of the 1994 Hong Kong Workshop on New Directions of Control and Manufacturing*.

14. M. Krstic and P. V. Kokotovic, "Lyapunov and ISS frameworks for adaptive nonlinear stabilization," *Proceedings of the IFAC Symposium on Nonlinear Control System Design*, Tahoe City, CA, pp. 119--124, 1995.
15. M. Krstic, "Asymptotic properties of adaptive nonlinear stabilizers," *Proceedings of the 1995 American Control Conference*, Seattle, WA, pp. 576--581, 1995.
16. M. Krstic and P. V. Kokotovic, "Modular approach to adaptive nonlinear stabilization," *Proceedings of the 5th IFAC Symposium on Adaptive Systems in Control and Signal Processing*, Budapest, Hungary, 1995.
17. M. M. Monahemi, J. B. Barlow, and M. Krstic, "Control of wing rock motion of slender delta wings using adaptive feedback linearization," *AIAA Guidance, Navigation, and Control Conference*, Baltimore, MD, pp. 1564--1575, 1995.
18. J. Sun, M. Krstic, and P. V. Kokotovic, "Adaptive control for a class of nonlinear systems: stabilization and regulation," *Proceedings of the IFAC Conference on Youth Automation*, Beijing, China, August 1995, to appear.
19. M. Krstic and P. V. Kokotovic, "Lean backstepping design for a jet engine compressor model," *Proceedings of the 4th IEEE Conference on Control Applications*, Albany, NY, 1995, pp. 1047--1052.
20. M. Krstic, J. Sun and P. V. Kokotovic, "Robust control of strict- and output-feedback systems with input unmodeled dynamics," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995, pp. 2257--2262.
21. M. Krstic and P. V. Kokotovic, "Estimation-based adaptive backstepping designs for linear systems," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995, pp. 3935--3940.
22. M. Krstic, J. M. Protz, J. D. Paduano, and P. V. Kokotovic, "Backstepping designs for jet engine stall and surge control," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995, pp. 3049--3055.
23. F. Ikhouane and M. Krstic, "Robustness of the tuning functions adaptive backstepping design for linear systems," *Proceedings of the 34th IEEE Conference on Decision and Control*, 1995, New Orleans, LA, 1995, pp. 159--164.
24. R. A. Freeman, M. Krstic, and P. V. Kokotovic, "Robustness of adaptive nonlinear control to bounded uncertainties," *1996 IFAC World Congress*.
25. M. Krstic and Z.-H. Li, "Invariant manifolds of adaptive nonlinear systems," *Proceedings of the 1996 Conference on Information Science and Systems*, Princeton, NJ, pp. 759--764.
26. M. M. Monahemi, J. B. Barlow, and M. Krstic, "Aircraft wing rock control using adaptive feedback linearization: some extensions," *1996 AIAA Guidance, Navigation, and Control Conference*, San Diego, CA, July 1996, AIAA paper 96-3770.
27. M. Krstic, "Lyapunov feedback design for stabilization of stall and surge in axial compressors," *1996 ASME International Mechanical Engineering Congress and Exposition*.
28. Z.-H. Li and M. Krstic, "Geometric/asymptotic properties of adaptive nonlinear systems with partial excitation," *35th IEEE Conference on Decision and Control*, 1996.
29. H.-H. Wang, M. Krstic, and M. Larsen, "Control of deep hysteresis aeroengine compressors---Part I: a Moore-Greitzer type model," *1997 American Control Conference*.
30. Z. H. Li and M. Krstic, "Input-to-state stabilizability is equivalent to solvability of an Isaacs equation," *1996 Conference on Information Science and Systems*.
31. H. Deng and M. Krstic, "Stochastic nonlinear optimal stabilization via backstepping," *1996 Conference on Information Science and Systems*.
32. M. Krstic and H.-H. Wang, "Control of deep hysteresis aeroengine compressors---Part II: design of control laws," *1997 American Control Conference*.
33. Z. H. Li and M. Krstic, "Optimal design of adaptive tracking controllers for nonlinear systems," *1997 American Control Conference*.
34. Z. H. Li and M. Krstic, "Maximizing regions of attraction in backstepping designs for systems with control singularities," *1997 American Control Conference*.

35. M. Krstic and P. Tsiotras, "Inverse optimality results for the attitude motion of a rigid spacecraft," *1997 American Control Conference*.
36. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Self-tuning control of a nonlinear model of combustion instabilities," *1997 IEEE Conference on Control Applications*.
37. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Adaptive stabilization of nonlinear acoustic oscillations in combustion chambers," *1997 IEEE Conference on Decision and Control*.
38. H. Deng and M. Krstic, "Stochastic nonlinear Lyapunov stabilization and inverse optimality," *1997 IEEE Conference on Decision and Control*.
39. H. Deng and M. Krstic, "Output-feedback stochastic nonlinear stabilization," *1997 IEEE Conference on Decision and Control*.
40. M. Krstic and H. H. Wang, "Design and stability analysis of extremum seeking feedback for general nonlinear systems," *1997 IEEE Conference on Decision and Control*.
41. K. B. Ariyur and M. Krstic, "Active control of blade-vortex interaction on a helicopter blade element," *SPIE 5th Annual International Symposium on Smart Structures and Materials*, 1997.
42. M. Krstic, "Stability margins in inverse optimal input-to-state stabilization," *1998 American Control Conference*.
43. H. Deng and M. Krstic, "Stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *1998 American Control Conference*.
44. K. B. Ariyur and M. Krstic, "Feedback attenuation and adaptive cancellation of blade-vortex interaction noise on a helicopter blade element," *1998 American Control Conference*.
45. H. H. Wang, S. Yeung, and M. Krstic, "Experimental application of extremum seeking on an axial-flow compressor," *1998 American Control Conference*.
46. H. Deng and M. Krstic, "Lyapunov analysis and control design for stochastic nonlinear systems," *1998 Symposium on Mathematical Theory of Networks and Systems*.
47. H. Deng and M. Krstic, "Closed-form solutions of stochastic nonlinear control problems," *1998 Symposium on Nonlinear Control Systems*.
48. H. Deng and M. Krstic, "Closed-form optimal controllers for nonlinear uncertain systems," *1998 International Mechanical Engineering Congress and Exposition*.
49. H.-H. Wang and M. Krstic, "Extremum seeking for limit cycle minimization," *1998 IEEE Conference on Decision and Control*.
50. M. Krstic, "Global stabilization of Burgers' equation by boundary control," *1998 IEEE Conference on Decision and Control*.
51. H.-H. Wang, M. Krstic, and G. Bastin, "Optimum-seeking by feedback for bioreactor models," *1999 IFAC World Congress*.
52. H. Deng and M. Krstic, "Output-feedback disturbance attenuation and adaptive control for stochastic nonlinear systems," *1999 IFAC World Congress*.
53. H. Deng and M. Krstic, "Noise-to-state stabilization and adaptive control for stochastic nonlinear output feedback systems," *1999 American Control Conference*.
54. W. J. Liu and M. Krstic, "Controlling nonlinear water waves: boundary stabilization of the Korteweg-de Vries-Burgers equation," *1999 American Control Conference*.
55. A. Balogh and M. Krstic, "Global boundary stabilization and regularization of Burgers' equation," *1999 American Control Conference*.
56. W.-J. Liu and M. Krstic, "Boundary control of a Kuramoto-Sivashinsky equation with low anti-dissipation," *1999 American Control Conference*.
57. A. Balogh and M. Krstic, "Boundary control of the Korteweg-de Vries-Burgers equation: further results on stabilization and numerical demonstration," *1999 Mediterranean Control Conference*.
58. A. Balogh and M. Krstic, "Stability enhancement by boundary control in 2D channel flow-Part I: Regularity of solutions," *1999 Conference on Decision and Control*.

59. M. Krstic, "Towards faster adaptation in extremum seeking control," *1999 Conference on Decision and Control*.
60. H. Ito and M. Krstic, "Recursive state-dependent scaling design of robust output feedback control for global stabilization," *1999 Conference on Decision and Control*.
61. A. Balogh and M. Krstic, "Stability enhancement by boundary control in 2D channel flow- Part II: Numerical implementation and stability," *2000 American Control Conference*.
62. W.-J. Liu and M. Krstic, "Estimation of viscosity and controller strengthening in boundary stabilization of Burgers' equation," *2000 American Control Conference*.
63. W.-J. Liu and M. Krstic, "Coping with actuator dynamics using backstepping for boundary stabilization of Burgers' equation," *2000 American Control Conference*.
64. E. Elong and M. Krstic, "A case study of performance improvement in extremum seeking control," *2000 American Control Conference*.
65. E. Zergeloglu, D. M. Dawson, M. S. De Queiroz, and M. Krstic, "On global output feedback control of robot manipulators," *2000 Conference on Decision and Control*.
66. G. Schneider, K. B. Ariyur, M. Krstic, "Tuning of a combustion controller by extremum seeking: A simulation study," *Conf. on Decision and Control*, pp. 5219-5223, 2000.
67. K. B. Ariyur, A. Banaszuk, M. Krstic, "Identification of averaged dynamics of a controlled combustion instability," *Conf. on Decision and Control*, pp. 2017-2022, 2000.
68. D. Boskovic and M. Krstic, "Nonlinear stabilization of a thermal convection loop," *Conference on Decision and Control*, pp. 4777-4782, 2000.
69. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Control of Burn Instability in Fusion Reactors", *Proceedings of the 40th IEEE Conference on Decision and Control*, 2001.
70. D. Boskovic and M. Krstic, "Stabilization of a solid propellant rocket instability," *Conference on Decision and Control*, 2001.
71. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Burn Control in Fusion Reactors", *Proceedings of the 19th IEEE Symposium on Fusion Energy*, 2001.
72. A. Balogh and M. Krstic, "Infinite-Step Backstepping for a Heat Equation-Like PDE with Arbitrarily Many Unstable Eigenvalues," *2001 American Control Conference*.
73. O. M. Aamo, M. Krstic, and T. Bewley, "Fluid mixing by feedback in Poiseuille flow," *American Control Conference*, 2001.
74. J.-Y. Choi, M. Krstic, K. B. Ariyur, J. S. Lee, "Stability of extremum seeking control for a class of discrete-time systems," *Proc. of the 2001 IEEE Conference on Decision and Control*, pp. 1717--1722, Orlando, FL, Dec. 2001.
75. K. B. Ariyur and M. Krstic, "Analysis and design of multivariable extremum seeking," *Proc. of the 2002 American Control Conference*, pp. 2903--2853 Anchorage, AK, May 2002.
76. P. Binetti, K. B. Ariyur, M. Krstic, F. Bernelli, "Control of formation flight via extremum seeking," *Proc. of the 2002 American Control Conference*, pp. 2848-2853, Anchorage, AK, May 2002.
77. K. B. Ariyur, and M. Krstic, "Multivariable extremum seeking feedback: Analysis and design," *Proc. of the Mathematical Theory of Networks and Systems*, South Bend, IN, Aug. 2002.
78. K. B. Ariyur, and M. Krstic, "Slope seeking in equilibrium maps of nonlinear systems," *Asian Control Conference*, Singapore, Sept. 2002.
79. K. B. Ariyur and M. Krstic, "Slope seeking and application to compressor instability control," *2002 IEEE Conference on Decision and Control*, Las Vegas, NV Dec. 2002.
80. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Burn Control in Fusion Reactors," *Proceedings of the 19th IEEE Symposium on Fusion Energy*, Atlantic City, NJ, USA, Jan. 2002.
81. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Lyapunov-Based Burn Control in Fusion Reactors," *6th International Symposium on Fusion Nuclear Technology*, San Diego, CA, USA, 2002.

82. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Backstepping Control for the Fuel Diffusion Lag in Fusion Reactors," *15th IFAC World Congress on Automatic Control*, Barcelona, Spain, 2002.
83. E. Schuster and M. Krstic, "Nonlinear Boundary Control of Non-Burning Plasma Kinetic Profiles in Cylindrical Geometry," *41st IEEE Conference on Decision and Control*, Las Vegas, NV, USA, Dec. 2002.
84. D. M. Boskovic and M. Krstic, "Boundary control of chemical tubular reactors," *IFAC World Congress*, Barcelona, 2002.
85. D. M. Boskovic, A. Balogh, and M. Krstic, "Boundary control of a class of unstable parabolic PDE's via backstepping," *IFAC World Congress*, Barcelona, 2002.
86. O. M. Aamo, A. Balogh, and M. Krstic, "Optimal mixing by feedback in pipe flow," *IFAC World Congress*, Barcelona, 2002
87. Y. Hu, O. Koroleva, and M. Krstic, "Control design for mine ventilation network systems," *IEEE Conference on Decision and Control*, 2002.
88. A. Balogh and M. Krstic, "Stability of difference equations arising in infinite dimensional backstepping," *IEEE Conference on Decision and Control*, 2002.
89. E. Schuster, M. L. Walker, D. A. Humphreys, and M. Krstic, "Plasma vertical stabilization in the presence of coil voltage saturation in the DIII-D tokamak," *American Control Conference*, 2003.
90. A. Smyshlyaev and M. Krstic, "Regularity of hyperbolic PDEs governing backstepping gain kernels for parabolic PDEs," *American Control Conference*, 2003.
91. O. Koroleva and M. Krstic, "Nonlinear and adaptive decentralized controllers for fluid flow networks," *American Control Conference*, 2003.
92. C. L. Yuan, M. Krstic, and T. R. Bewley, "Control of mixing in 2D jet flow," *American Control Conference*, 2003.
93. O. M. Aamo and M. Krstic, "Backstepping design for a semi-discretized Ginzburg-Landau model of vortex shedding," *American Control Conference*, 2003.
94. M. Krstic and A. Banaszuk, "Multivariable adaptive control of instabilities arising in jet engines," *American Control Conference*, 2003.
95. O. M. Aamo, A. Smyshlyaev, and M. Krstic, "Stabilization of the Ginzburg-Landau equation by linear boundary control," *IEEE Conference on Decision and Control*, 2003.
96. E. Schuster and M. Krstic, "Inverse optimal boundary control for mixing in magnetohydrodynamic channel flow," *IEEE Conference on Decision and Control*, 2003.
97. E. Schuster, M. Krstic, M. L. Walker, and D. A. Humphreys, "Antiwindup scheme for plasma shape control with rate and magnitude actuation constraints in the DIII-D tokamak," *IEEE Conference on Decision and Control*, 2003.
98. A. Smyshlyaev and M. Krstic, "Output feedback boundary control by backstepping and application to chemical tubular reactor," *American Control Conference*, 2004.
99. O. Koroleva and M. Krstic, "Approximate solutions to nonlinear fluid networks with periodic inputs," *American Control Conference*, 2004.
100. M. Krstic, "Feedforward systems linearizable by coordinate change," *American Control Conference*, 2004.
101. M. Krstic, "Integrator forwarding control laws for some classes of linearizable feedforward systems," *American Control Conference*, 2004.
102. E. Schuster, M. Walker, M. Krstic, and D. Humphreys, "Toward the implementation of an anti-windup scheme for vertical and shape control in the DIII-D tokamak," *American Control Conference*, 2004.
103. A. Smyshlyaev and M. Krstic, "Closed form closed-loop solutions in PDE boundary control problems," *Mathematical Theory of Networks and Systems*, 2004.
104. M. Krstic, "Explicit control laws for some classes of feedforward systems," *IFAC Symposium on Nonlinear Control Systems*, 2004.

105. R. Vazquez and M. Krstic, "Volterra boundary control laws for a class of nonlinear parabolic partial differential equations," *IFAC Symposium on Nonlinear Control Systems*, 2004.
106. O. M. Aamo, A. Smyshlyaev, M. Krstic, and B. A. Foss, "Stabilization of a Ginzburg-Landau model of vortex shedding by output feedback boundary control," *IEEE Conference on Decision and Control*, 2005.
107. N. Killingsworth and M. Krstic, "Auto-tuning of PID controllers via extremum seeking," *American Control Conference*, 2005.
108. M. Krstic, "Inverse optimality and performance in forwarding," *American Control Conference*, 2005.
109. M. Krstic, "Explicit forwarding controllers—Beyond linearizable class," *American Control Conference*, 2005.
110. R. Vazquez and M. Krstic, "Thermal convection loop control by continuous backstepping and singular perturbations," *American Control Conference*, 2005.
111. A. Smyshlyaev and M. Krstic, "Backstepping boundary control for PDEs with non-constant diffusivity and reactivity," *American Control Conference*, 2005.
112. R. Vazquez and M. Krstic, "Explicit feedback control for a thermal convection loop," *Third MIT Conference on Computational Fluid and Solid Mechanics*, 2005.
113. M. Krstic, "Lyapunov adaptive stabilization of parabolic PDEs: Part I—A benchmark for boundary control," *IEEE Conference on Decision and Control*, 2005.
114. M. Krstic, "Lyapunov adaptive stabilization of parabolic PDEs: Part II—Output feedback and other benchmark problems," *IEEE Conference on Decision and Control*, 2005.
115. A. Smyshlyaev and M. Krstic, "Passive identifiers for boundary adaptive control of 3D reaction-advection-diffusion PDEs," *IEEE Conference on Decision and Control*, 2005.
116. A. Smyshlyaev and M. Krstic, "Output feedback adaptive controllers with swapping identifiers for two unstable PDEs with infinite relative degree," *IEEE Conference on Decision and Control*, 2005.
117. R. Vazquez and M. Krstic, "A closed form feedback controller for stabilization of linearized Navier-Stokes equations: The 2D Pousseuille flow," *IEEE Conference on Decision and Control*, 2005.
118. R. Vazquez and M. Krstic, "A closed form observer for the channel flow Navier-Stokes system," *IEEE Conference on Decision and Control*, 2005.
119. D. L. Flowers, J. Martinez-Frias, F. Espinosa-Loza, N. Killingsworth, S. M. Aceves, R. Dibble, M. Krstic, and A. Bining, "Development and testing of a 6-cylinder HCCI engine for distributed generation," *ASME Internal Combustion Engine Division Fall Technical Conference*, 2005.
120. M. Krstic, A. Smyshlyaev, and A. Siranosian, "Backstepping boundary controllers and observers for the slender Timoshenko beam: Part I— Design," *2006 American Control Conference*.
121. D. Jacquet, M. Krstic, and C. Canudas de Wit, "Optimal control of scalar one-dimensional conservation laws," *2006 American Control Conference*.
122. C. Zhang, A. Siranosian, and M. Krstic, "Extremum seeking for moderately unstable systems and for autonomous vehicle target tracking without position measurement," *2006 American Control Conference*.
123. R. Vazquez and M. Krstic, "Higher-order stability properties of a Navier-Stokes system with an explicit boundary controller," *2006 American Control Conference*.
124. J. Cochran, R. Vazquez, and M. Krstic, "Backstepping boundary control of Navier-Stokes channel flow: A 3D extension," *2006 American Control Conference*.
125. E. Schuster, E. Morinaga, C. K. Allen, and M. Krstic, "Optimal beam matching in particle accelerators via extremum seeking," *2006 American Control Conference*.
126. A. Smyshlyaev and M. Krstic, "Lyapunov adaptive boundary control for parabolic PDEs with spatially varying coefficients," *2006 American Control Conference*.

127. M. Krstic, R. Vazquez, A. Siranosian, and M. Bement, "Sensing schemes for state estimation in turbulent flows and flexible structures," *Proceedings of SPIE, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, Paper Number: 6174-28, 2006.
128. N. Killingsworth, S. Aceves, D. Flowers, and M. Krstic, "A simple HCCI engine model for control," *IEEE Conference on Control Applications*, 2006.
129. M. Krstic and A. Balogh, "Backstepping boundary controller and observer for the undamped shear beam," *17th International Symposium on Mathematical Theory of Networks and Systems*, 2006.
130. M. Krstic, J. Cochran, and R. Vazquez, "Decoupling and stabilizing Orr-Sommerfield and Squire systems by boundary control," *3rd AIAA Flow Control Conference*, 2006.
131. R. Vasquez, E. Schuster, Miroslav Krstic, A closed-form observer for the 3D inductionless Hartmann flow," *Proceedings of the Conference on Active Flow Control*, Berlin, Germany, 2006.
132. M. Krstic, A. Siranosian, A. Smyshlyaev, and M. Bement, "Boundary control of flexible beams with the method of backstepping," *Proceedings of the 4th World Conference on Structural Control and Monitoring*, 2006.
133. M. Krstic, A. Smyshlyaev, and R. Vazquez, "Boundary control of PDEs and applications to turbulent flows and flexible structures," *Proceedings of the 25th Chinese Control Conference*, Harbin, China, 2006.
134. M. Krstic, A. Balogh, and A. Smyshlyaev, "Backstepping boundary controllers for tip-force induced instabilities arising in AFM," *IEEE Conference on Decision and Control*, 2006.
135. M. Krstic, "Systematization of approaches to adaptive boundary stabilization of PDEs," *IEEE Conference on Decision and Control*, 2006.
136. J. Cochran, R. Vazquez, and M. Krstic, "Backstepping boundary control of Navier-Stokes channel flow: Explicit gain formulae in 3D," *IEEE Conference on Decision and Control*, 2006.
137. M. Krstic, A. Siranosian, A. Smyshlyaev, and M. Bement, "Backtepping boundary controllers and observers for the slender Timoshenko beam: Part II – Stability and simulations," *IEEE Conference on Decision and Control*, 2006.
138. R. Vazquez, E. Schuster, and M. Krstic, "A closed-form observer for the 3D inductionless MHD and Navier-Stokes channel flow," *IEEE Conference on Decision and Control*, 2006.
139. Y. V. Orlov, M. Krstic, and A. Smyshlyaev, "Adaptive identification of linear unstable parabolic systems with boundary sensing and actuation: A case study," *IEEE Conference on Decision and Control*, 2006.
140. C. Zhang, D. Arnold, N. Ghods, A. Siranosian, and M. Krstic, "Source seeking with nonholonomic unicycle without position measurement – Part I: Tuning of forward velocity," *IEEE Conference on Decision and Control*, 2006.
141. A. Smyshlyaev and M. Krstic, "Output-feedback adaptive control for parabolic PDEs with spatially varying coefficients," *IEEE Conference on Decision and Control*, 2006.
142. M. Krstic and M. Bement, "Non-overshooting control of strict-feedback nonlinear systems," *2007 American Control Conference*.
143. N. Killingsworth, D. Flowers, S. Aceves, and M. Krstic, "Extremum seeking tuning of an experimental HCCI engine combustion timing controller," *2007 American Control Conference*.
144. R. Vazquez and M. Krstic, "Explicit output feedback stabilization of a thermal convection loop by continuous backstepping and singular perturbations," *2007 American Control Conference*.
145. C. Xu, E. Schuster, R. Vazquez, and M. Krstic, "Stabilization of linearized 2D magnetohydrodynamic channel flow by backstepping boundary control," *2007 American Control Conference*.

146. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, "Observer based boundary control of an unstable wave equation," *2007 American Control Conference*.
147. M. Krstic and A. Smyshlyaev, "Backstepping boundary control - A tutorial," *2007 American Control Conference*.
148. R. Vazquez, J. Cochran, O. M. Aamo, and M. Krstic, "Control of channel flow turbulence, vortex shedding, and thermal convection by backstepping boundary control," *2007 American Control Conference*.
149. M. Krstic, A. Siranosian, A. Balogh, and B.-Z. Guo, "Control of strings and flexible beams by backstepping boundary control," *2007 American Control Conference*.
150. A. Smyshlyaev and M. Krstic, "Adaptive control of PDEs with uncertain and spatially variable parameters," *2007 American Control Conference*.
151. R. Vazquez and M. Krstic, "Boundary control of nonlinear PDEs by Volterra feedback linearization," *2007 European Control Conference*.
152. R. Vazquez, E. Schuster, and M. Krstic, "A closed-form feedback controller for stabilization of magnetohydrodynamics channel flow," *2007 European Control Conference*.
153. R. Vazquez, E. Schuster, and M. Krstic, "Backstepping boundary control of magnetohydrodynamic channel flow," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
154. R. Vazquez and M. Krstic, "Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part I: Design," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
155. R. Vazquez and M. Krstic, "Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part II: Examples," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
156. R. Vazquez and M. Krstic, "Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part III: Analysis," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
157. J. Cochran, A. Siranosian, N. Ghods, D. Arnold, and M. Krstic, "GPS-denied source seeking for a nonholonomic unicycle via heading control," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
158. M. Krstic and A. Smyshlyaev, "Adaptive control of PDEs," *9th IFAC Workshop on Adaptation and Learning in Adaptive Control and Signal Processing*, St. Petersburg, Russia, 2007.
159. A. A. Siranosian, M. Krstic, and M. Bement, "Generation and tracking of sinusoids for shake table control via extremum seeking," *Proceedings of ASME International Mechanical Engineering Congress and Exposition*, 2007.
160. M. Krstic and A. Smyshlyaev, "Backstepping boundary control for first order hyperbolic PDEs and application to systems with actuator and sensor delays," *IEEE Conference on Decision and Control*, 2007.
161. M. Krstic, A. Smyshlyaev, and B.-Z. Guo, "Backstepping boundary control for Schrodinger equation and Euler-Bernoulli beam," *IEEE Conference on Decision and Control*, 2007.
162. C. Manzie and M. Krstic, "Discrete time extremum seeking using stochastic perturbations," *IEEE Conference on Decision and Control*, 2007.
163. J. Cochran and M. Krstic, "Source seeking with nonholonomic unicycle without position measurements and with tuning of angular velocity – Part I: Stability analysis," *IEEE Conference on Decision and Control*, 2007.
164. J. Cochran, A. Siranosian, N. Ghods, and M. Krstic, "Source seeking with nonholonomic unicycle without position measurements and with tuning of angular velocity – Part II: Applications," *IEEE Conference on Decision and Control*, 2007.

165. M. Krstic and J. Cochran, "Contaminant tracking in GPS-denied environments," *Proceedings of the 2008 Engineering Research and Innovation Conference*, Knoxville, TN.
166. J. Cochran, A. Siranosian, N. Ghods, and M. Krstic, "GPS denied source seeking for underactuated autonomous vehicles in 3D," *IEEE International Conference on Robotics and Automation*, 2008.
167. J. Cochran, M. Krstic, "3D nonholonomic source seeking without position measurement," *American Control Conference*, 2008.
168. A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, "Motion planning and tracking for tip displacement and deflection angle for flexible beams," *American Control Conference* 2008.
169. S. Bolognani, A. Smyshlyaev, and M. Krstic, "Adaptive output feedback control for complex-valued reaction-advection-diffusion systems," *American Control Conference* 2008.
170. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear control of the Burgers PDE - Part I: Full-state stabilization," *American Control Conference*, 2008
171. M. Krstic, L. Magnis, R. Vazquez, "Nonlinear control of the Burgers PDE - Part II: Observer design, trajectory generation, and tracking," *American Control Conference*, 2008.
172. M. Krstic, "Lyapunov tools for predictor feedbacks for delay systems: Inverse optimality and robustness to delay mismatch," *American Control Conference* 2008.
173. M Krstic, "On compensating long actuator delays in nonlinear control," *American Control Conference* 2008.
174. M. Krstic and J. Cochran, "Extremum seeking for motion optimization: From bacteria to nonholonomic vehicles," *Chinese Control and Decision Conference*, 2008.
175. M. Krstic, A. Smyshlyaev, and R. Vazquez, "Infinite-dimensional backstepping and applications to flows in electromagnetic fields," *Mediterranean Control Conference*, 2008.
176. M. Krstic, "Actuation delay compensation in nonlinear control," *Mathematical Theory of Networks and Systems*, 2008.
177. A. Smyshlyaev, B. Guo, and M. Krstic, "Boundary controllers for Euler-Bernoulli beam with arbitrary decay rate," *IEEE Conference on Decision and Control*, 2008.
178. D. Flowers, N. Killingsworth, F. Espinoza-Loza , J. Martinez-Frias , S. Aceves , M. Krstic , R. Dibble, "Demonstrating optimum HCCI combustion with advanced control technology," SAE technical paper number 08FFL-0044, *Powertrains, Fuels and Lubricants Meeting*, 2008.
179. M. Krstic, "Adaptive control of an unstable wave PDE," *2009 American Control Conference*.
180. M. Krstic, "Inverse optimal adaptive control – the interplay between update laws, control laws, and Lyapunov functions," *2009 American Control Conference*.
181. M. Krstic and D. Bresch-Pietri, "Delay-adaptive full-state predictor feedback for systems with unknown long actuator delay," *2009 American Control Conference*.
182. D. Bresch-Pietri and M. Krstic, "Adaptive tracking controller for systems with unknown long delay and unknown parameters in the plant," *2009 American Control Conference*.
183. M. Krstic, "Compensating a string PDE in the actuation or sensing path of an unstable ODE," *2009 American Control Conference*.
184. J. Cochran, E. Kansa, and M. Krstic, "Source seeking for a three-link model of fish locomotion," *2009 American Control Conference*.
185. J. Cochran, S. Kelly, H. Xiong, and M. Krstic, "Source seeking for a Joukowski foil model of fish locomotion," *2009 American Control Conference*.
186. N. Ghods and M. Krstic, "Extremum seeking with very slow or drifting sensors," *2009 American Control Conference*.
187. P. Frihauf and M. Krstic, "Rapidly convergent leader-enabled multi-agent deployment into planar curves," *2009 American Control Conference*.

188. M. Krstic, "Predictor-like feedback for actuator and sensor dynamics governed by diffusion PDEs," *2009 American Control Conference*.
189. A. Smyshlyaev and M. Krstic, "Boundary control of an anti-stable wave equation with anti-damping on the uncontrolled boundary," *2009 American Control Conference*.
190. A. Siranosian, M. Krstic, A. Smyshlyaev, M. Bement, "Gain scheduling-inspired control for nonlinear partial differential equations," *2nd Annual ASME Dynamic Systems and Control Conference*, 2009.
191. M. Krstic and D. Bresch-Pietri, "Delay-robustness and adaptivity of predictor feedback without actuator state measurement," *IFAC Workshop on Control of Distributed Parameter Systems*, 2009.
192. M. Krstic, J. Doblack, J. Toubi, A. Veksler, H. Basturk, "Optimization of wave-induced motion of ramp-interconnected craft for cargo transfer," *Grand Challenges Conference in Modeling and Simulation*, 2009.
193. N. Bekiaris-Liberis and M. Krstic, "On stabilizing strict-feedback linear systems with delayed integrators," *17th Mediterranean Conference on Control and Automation*, 2009.
194. M. Krstic, "Lyapunov stability of linear predictor feedback for time-varying input delay," *IEEE Conference on Decision and Control*, 2009.
195. M. Krstic, "Control of an unstable reaction-diffusion PDE with long input delay," *IEEE Conference on Decision and Control*, 2009.
196. M. Krstic, "Dead-time compensation for wave/string PDEs," *IEEE Conference on Decision and Control*, 2009.
197. M. Krstic, "Nonlinear stabilization through long input delay---Part I: Forward complete systems," *IEEE Conference on Decision and Control*, 2009.
198. M. Krstic, "Nonlinear stabilization through long input delay---Part II: The strict-feedforward class," *IEEE Conference on Decision and Control*, 2009.
199. M. Krstic, "Nonlinear stabilization through long input delay - Part III: Linearizable strict-feedforward systems," *IEEE Conference on Decision and Control*, 2009.
200. S. Liu and M. Krstic, "Stochastic averaging on infinite time interval for a class of nonlinear systems with stochastic perturbation," *IEEE Conference on Decision and Control*, 2009.
201. A. Smyshlyaev, E. Cerpa, and M. Krstic, "Boundary stabilization of an anti-stable wave equation with in-domain anti-damping," *IEEE Conference on Decision and Control*, 2009.
202. N. Ghods, M. Krstic, "Multi-agent deployment around a source in one dimension by extremum seeking," *2010 American Control Conference*.
203. N. Bekiaris-Liberis, M. Krstic, "Delay-adaptive feedback for linear feedforward systems," *2010 American Control Conference*.
204. N. Bekiaris-Liberis, M. Krstic, "Stabilization of linear strict-feedback systems with delayed integrators," *2010 American Control Conference*.
205. S.-J. Liu, M. Krstic, "Stochastic averaging in continuous time and its applications to extremum seeking," *2010 American Control Conference*.
206. P. Frihauf, M. Krstic, "Multi-agent deployment to a family of planar arcs," *2010 American Control Conference*.
207. A. Pyrkin, A. Smyshlyaev, N. Bekiaris-Liberis, M. Krstic, "Rejection of sinusoidal disturbance of unknown frequency for linear system with input delay," *2010 American Control Conference*.
208. A. Pyrkin, A. Smyshlyaev, N. Bekiaris-Liberis, M. Krstic, "Output control algorithm for unstable plant with input delay and cancellation of unknown biased harmonic disturbance," *IFAC Workshop on Time Delay Systems*, 2010.
209. P. Frihauf, M. Krstic, T. Basar, "Nash equilibrium seeking for dynamic systems with non-quadratic payoffs," *The 14th International Symposium on Dynamic Games and Applications*, 2010.

210. T. Meurer and M. Krstic, "Nonlinear PDE-based motion planning for the formation control of mobile agents," *8th IFAC Symposium on Nonlinear Control Systems*, 2010.
211. M. Krstic, P. Frihauf, J. Krieger, and T. Basar, "Nash equilibrium seeking with finitely and infinitely many players," *8th IFAC Symposium on Nonlinear Control Systems*, 2010.
212. N. Ghods and M. Krstic, "Source seeking for nonholonomic unicycle with speed regulation," *ASME Dynamic Systems and Control Conference*, 2010.
213. N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of a wave PDE in the actuation or sensing path of multi-input and multi-output LTI Systems," *ASME Dynamic Systems and Control Conference*, 2010.
214. S.-J. Liu and M. Krstic, "Stochastic nonholonomic source seeking," *IEEE Conference on Decision and Control*, 2010.
215. N. Bekiaris-Liberis and M. Krstic, "Lyapunov stability of linear predictor feedback for distributed input delays," *IEEE Conference on Decision and Control*, 2010.
216. N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of counter-convection and diffusion in multi-input and multi-output LTI systems," *IEEE Conference on Decision and Control*, 2010.
217. N. Ghods and M. Krstic, "Multi-agent deployment in the plane using stochastic extremum seeking," *IEEE Conference on Decision and Control*, 2010.
218. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking for games with non-quadratic payoffs," *IEEE Conference on Decision and Control*, 2010.
219. J. Doblack, H. Basturk, A. Chakirov, and M. Krstic "Air cushion active control for the reduction of wave induced motion of ramp-connected ships," *Grand Challenges Conference in Modeling and Simulation*, Ottawa, Canada, 2010.
220. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking with infinitely many players," *American Control Conference*, 2011.
221. J.-M. Wang and M. Krstic, "On the stability of an interconnected system of Euler-Bernoulli beam and heat equation via boundary coupling," *American Control Conference*, 2011.
222. A. Smyshlyaev, N. Chaturvedi, and M. Krstic, "PDE model for thermal dynamics of a large Li-ion battery pack," *American Control Conference*, 2011.
223. A. A. Paranjape, S.-J. Chung, and M. Krstic, "PDE boundary control for flexible articulated aircraft wings," AIAA paper 2011-6486, *AIAA Guidance, Navigation, and Control Conference*, Portland, Oregon, 2011.
224. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking for dynamic systems with non-quadratic payoffs," *18th IFAC World Congress*, 2011.
225. S.-J. Liu and M. Krstic, "Stochastic Nash equilibrium seeking for games with general nonlinear payoffs," *18th IFAC World Congress*, 2011.
226. J.-M. Wang, B.-Z. Guo, and M. Krstic, "Stabilization of one-dimensional wave equation by delayed output feedback," *18th IFAC World Congress*, 2011.
227. N. Bekiaris-Liberis and M. Krstic, "Compensation of time-varying input delay for nonlinear systems," *19th Mediterranean Conference on Control and Automation*, 2011.
228. J.-M. Wang, B. Ren, and M. Krstic, "Stabilization of coupled Schrodinger and heat equations with boundary coupling," *Chinese Control Conference*, 2011.
229. H. I. Basturk, J. Doblack, and M. Krstic, "Air cushion adaptive disturbance cancellation for the reduction of wave induced motion of ramp-connected ships," *11th International Conference on Fast Sea Transportation*, 2011.
230. H. I. Basturk and M. Krstic, "Adaptive cancellation of matched unknown sinusoidal disturbances for LTI systems by state derivative feedback," *2011 ASME Dynamics and Control Conference*.
231. B. Ren, P. Frihauf, M. Krstic, and R. J. Rafac, "Laser pulse shaping via iterative learning control and infinite-dimensional extremum seeking" *2011 ASME Dynamics and Control Conference*.

232. N. Bekiaris-Liberis and M. Krstic, "Stabilization of nonlinear strict-feedback systems with time-varying delayed integrators," *2011 ASME Dynamics and Control Conference*.
233. R. Vazquez, J.-M. Coron, and M. Krstic, "Backstepping boundary stabilization and state estimation of a 2 X 2 linear hyperbolic system," *IEEE Conference on Decision and Control*, 2011.
234. R. Vazquez, J.-M. Coron, M. Krstic, and G. Bastin, "Local exponential H2 stabilization of a 2 X 2 quasilinear hyperbolic system using backstepping," *IEEE Conference on Decision and Control*, 2011.
235. I. Karafyllis and M. Krstic, "Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold," *IEEE Conference on Decision and Control*, 2011.
236. N. Bekiaris-Liberis and M. Krstic, "Compensation of state-dependent input delay for nonlinear systems," *IEEE Conference on Decision and Control*, 2011.
237. Azad Ghaffari, M. Krstic, and D. Nesic, "Multivariable Newton-based extremum seeking," *IEEE Conference on Decision and Control*, 2011.
238. A. A. Ahmadi, M. Krstic, and P. Parrilo, "A globally asymptotically stable polynomial vector field with no polynomial Lyapunov function," *IEEE Conference on Decision and Control*, 2011.
239. R. Vazquez, J.-M. Coron, M. Krstic, G. Bastin, "Collocated Output-Feedback Stabilization of a 2x2 Quasilinear Hyperbolic System using Backstepping," *American Control Conference*, 2012.
240. D. Tsubakino, M. Krstic, S. Hara, "Backstepping Control for Parabolic PDEs with In-Domain Actuation," *American Control Conference*, 2012.
241. N. Bekiaris-Liberis, M. Jankovic, M. Krstic, "Compensation of State-Dependent State Delay for Nonlinear Systems," *American Control Conference*, 2012.
242. F. Mazenc, S.-I. Niculescu, M. Krstic, "Some remarks on Lyapunov-Krasovskii Functionals and Reduction Approach for Input Delay Compensation," *American Control Conference*, 2012.
243. Halil I. Basturk, M. Krstic, "Adaptive Cancellation of Matched Unknown Sinusoidal Disturbances for Unknown LTI Systems by State Derivative Feedback," *American Control Conference*, 2012.
244. A. Scheinker, M. Krstic, "A Universal Extremum Seeking-based Stabilizer for Unknown LTV Systems with Unknown Control Directions," *American Control Conference*, 2012.
245. A. Ghaffari, S. Seshagiri, M. Krstic, "Power Optimization for Photovoltaic Micro-Converters using Multivariable Gradient-Based Extremum-Seeking," *American Control Conference*, 2012.
246. N. Bekiaris-Liberis, M. Krstic, "Compensation of State-Dependent Delays under Local Stabilizability Assumption," *American Control Conference*, 2012.
247. B. Ren, J.-M. Wang, M. Krstic, "Stabilization of an ODE-Schrodinger Cascade," *American Control Conference*, 2012.
248. F. Di Meglio, M. Krstic, R. Vazquez, N. Petit, "Backstepping stabilization of an underactuated 3x3 linear hyperbolic system of fluid flow transport equations," *American Control Conference*, 2012.
249. S. Moura, N. A. Chaturvedi, M. Krstic, "PDE Estimation Techniques for Advanced Battery Management Systems - Part I: SOC Estimation," *American Control Conference*, 2012.
250. S. Moura, N. A. Chaturvedi, M. Krstic, "PDE Estimation Techniques for Advanced Battery Management Systems - Part II: SOH Identification," *American Control Conference*, 2012.
251. A. Ghaffari, S. Seshagiri, M. Krstic, "High-fidelity photovoltaic array modeling for advanced MPPT design," *2012 IEEE Canadian Conference on Electrical and Computer Engineering*.
252. A. Ghaffari, S. Seshagiri, M. Krstic, "High-fidelity DC-DC converter modeling for advanced MPPT design," *2012 IEEE Canadian Conference on Electrical and Computer Engineering*.

- Engineering.*
253. S.-J. Liu, P. Frihauf, and M. Krstic, "Stochastic source seeking with tuning of forward velocity," *2012 Chinese Control Conference*.
 254. H. I. Basturk and M. Krstic, "Adaptive backstepping cancellation of unmatched unknown sinusoidal disturbances for LTI systems by state derivative feedback," *2012 ASME Dynamic Systems and Control Conference*.
 255. P. Frihauf, S.-J. Liu, and M. Krstic, "Stochastic source seeking with multiple nonholonomic vehicles via a single forward-velocity control signal," *2012 ASME Dynamic Systems and Control Conference*.
 256. S. Moura, N. A. Chaturvedi, and M. Krstic, "Adaptive PDE observer for battery SOC/SOH estimation," *2012 ASME Dynamic Systems and Control Conference*.
 257. H. I. Basturk and M. Krstic, "Adaptive Backstepping Cancellation of Unmatched Unknown Sinusoidal Disturbances for Unknown LTI Systems by State Derivative Feedback," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 258. A. Scheinker and M. Krstic, "Extremum Seeking-based Tracking for Unknown Systems with Unknown Control Directions," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 259. S.-J. Liu and M. Krstic, "Newton-Based Stochastic Extremum Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 260. F. Di Meglio, R. Vazquez, and M. Krstic, "Stabilization of a linear hyperbolic system with one boundary controlled transport PDE coupled with n counterconvecting PDEs," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 261. A. Ghaffari, M. Krstic, and S. Seshagiri, "Power Optimization for Photovoltaic Micro-Converters using Multivariable Newton-Based Extremum-Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 262. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "PDE-Based Analysis and Control of the Oxygen Storage Level in Three-Way Catalytic Converters," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 263. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Adaptive Stabilization of LTI Systems with Distributed Input Delay," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 264. P. Wolf, S. Moura, and M. Krstic, "Optimal Sensor Placement for Spatio-temporal Temperature Estimation in Large Battery Packs," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 265. A. Paranjape, J. Guan, S.-J. Chung, and M. Krstic, "PDE Boundary Control for Euler-Bernoulli Beam Using a Two Stage Perturbation Observer," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 266. P. Frihauf, M. Krstic, and T. Basar, "Finite-Horizon LQ Control for Unknown Discrete-Time Systems via Extremum Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 267. M. Krstic and N. Bekiaris-Liberis, "Control of Nonlinear Delay Systems," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
 268. D. Ryan, H. Choi, and M. Krstic, "A Simulink nuclear power plant simulator for EM²," *2012 American Nuclear Society Winter Meeting and Nuclear Technology Expo*.
 269. Q.-C. Zhong, W.-L. Ming, X. Cao, and M. Krstic, "Reduction of DC-bus voltage ripples and capacitors for single-phase PWM-controlled rectifiers," *IEEE Industrial Electronics Conference (IECON)*, Montreal, 2012.
 270. C. Sagert, F. Di Meglio, M. Krstic, P. Rouchon, "Backstepping and flatness approaches for stabilization of the stick-slip phenomenon for drilling," *IFAC Symposium on System Structure and Control*, Grenoble, France, 2013.
 271. Q.-C. Zhong, W.-L. Ming and M. Krstic, "A single-phase to three-phase power conversion system with reduced switches and improved output voltages," *2013 IEEE Fifth Annual*

- Green Technologies Conference.*
272. Q.-C. Zhong, W.-L. Ming and M. Krstic, "Improving the power quality of traction power systems with a single-feeding wire," *2013 IEEE Fifth Annual Green Technologies Conference.*
 273. A. Ghaffari, M. Krstic, and S. Seshagiri, " Power optimization and control in wind energy conversion systems using extremum seeking," *American Control Conference, 2013.*
 274. S. Tang and M. Krstic, " Stabilization of linearized Korteweg-de Vries systems with anti-diffusion," *American Control Conference, 2013.*
 275. B. Ren and M. Krstic, " Region tracking control for multi-agent systems with high-order dynamics," *American Control Conference, 2013.*
 276. S. Moura, N. A. Chaturvedi, and M. Krstic, " Constraint management in Li-ion batteries: A modified reference governor approach," *American Control Conference, 2013.*
 277. N. Bekiaris-Liberis and M. Krstic, " Robustness to time- and state-dependent delay perturbations in networked nonlinear control systems," *American Control Conference, 2013.*
 278. F. Di Meglio, R. Vazquez, M. Krstic, "A backstepping boundary observer for a class of linear first-order hyperbolic systems," *European Control Conference, 2013.*
 279. S.-J. Liu and M. Krstic, "Stochastic averaging in discrete time," *Chinese Control Conference, 2013.*
 280. N. Bekiaris-Liberis and M. Krstic, "Stabilization in the supremum norm of wave PDE/nonlinear ODE cascades," *Mediterranean Control Conference, 2013.*
 281. R. Vazquez and M. Krstic, "Marcum Q-functions and explicit feedback laws for stabilization of constant coefficient 2 X 2 linear hyperbolic systems," *2013 IEEE Conference on Decision and Control.*
 282. N. Bekiaris-Liberis and M. Krstic, "Nonlinear control under input delays that depend on delayed states," *2013 IEEE Conference on Decision and Control.*
 283. N. Bekiaris-Liberis and M. Krstic, "Oil drilling inspired compensation of wave actuator dynamics for nonlinear systems," *2013 IEEE Conference on Decision and Control.*
 284. J. D. Bendtsen and M. Krstic, "Control of thermodynamical system with input-dependent state delays," *2013 IEEE Conference on Decision and Control.*
 285. D. Tsubakino, M. Krstic, and Y. Yamashita, "Boundary control of a cascade of two parabolic PDEs with different diffusion coefficients," *2013 IEEE Conference on Decision and Control.*
 286. A. Sezgin and M. Krstic, "Backstepping control of an aeroelastic system with large Mach numbers," *2013 IEEE Conference on Decision and Control.*
 287. G. Mills and M. Krstic, "Gradient based projection method for constrained optimization," *2013 IEEE Conference on Decision and Control.*

Патенти

1. M. Krstic and A. Krener, "Method and apparatus for predicting and stabilizing compressor stall," U.S. Patent 6,098,010, 2000.
2. A. Banaszuk, Y. Zhang, C. A. Jacobson, and M. Krstic, "Suppressing oscillations in processes such as gas turbine combustion," U.S. Patent 6,522,991, 2003.

Одзив на радове

Комисија није тражила цитираност свих библиографских јединица, али је стекла увид у изузетно високу цитираност удебеника и научних радова др Мирослава Крстића. Примера ради, монографија [1] је цитирана 5579 пута, монографија [4] 421 пут, монографија [2] 396 пута а поглавље у монографији [27] 257 пута. И радови у међународним часописима имају високу цитираност. Тако је, на пример, рад под редним бројем [73] цитиран 165 пута а под редним броје [26] 163 пута.

Мишљење Комисије

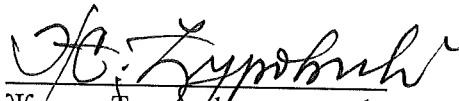
Из изложеног се види да кандидат, др Мирослав Крстић, редовни професор на Универзитету Сан Дијего (*University of California San Diego*), Сједињене Америчке Државе, испуњава све услове Закона о високом образовању (члан 66) и Статута Електротехничког факултета, Универзитета у Београду, (чланови 17 и 102), за избор у звање гостујући професор.


Др Мирослав Крстић има докторат наука, 9 међународних монографија, 183 рада објављена у међународним часописима, преко 280 рада на међународним научним скуповима, велики број предавања по позиву и два патента. Последњих година др Мирослав Крстић успоставља значајну сарадњу са Катедром за сигнале и системе Електротехничког факултета, држећи кратке курсеве студентима докторских студија и организујући студијске боравке за студенте докторских студија на Универзитету у Сан Дијегу.

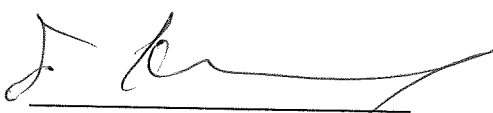
Полазећи од анализе целокупне наставне и научноистраживачке активности др Мирослава Крстића, обима и квалитета његовог рада, а посебно научног рада из области дефицитарних на Електротехничком факултету, те његовог ангажовања да их пренесе студентима и колегама у Србији, предлажемо Изборном већу Електротехничког факултета, Универзитета у Београду, да га изабере у звање гостујући професор.

у Београду,
дана 05.09.2013.

Чланови Комисије:


др Жељко Ђуровић, ред. проф.


др Срђан Станковић, проф. емеритус


др Бранко Ковачевић, ред. проф.

ИМЕ И ПРЕЗИМЕ: Мирослав Крстић, University of California San Diego**РАДОВИ У
МЕЂУНАРОДНИМ
ЧАСОПИСИМА**

1. M. Krstic, "Algorithms for calculating flow and pressure distribution in gas networks," *Nafta*, vol. 41, pp. 265--274, 1990.
2. M. Krstic, "General gas network design for a desired stationary flow/pressure distribution," *Nafta*, vol. 41, pp. 493--498, 1990.
3. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "Adaptive nonlinear control without overparametrization." *Systems Control Letters*, vol. 19, pp. 177--185, 1992.
4. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Transient performance improvement with a new class of adaptive controllers." *Systems Control Letters*, vol. 21, pp. 451--461, 1993.
5. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "Nonlinear design of adaptive controllers for linear systems." *IEEE Transactions on Automatic Control*, vol. 39, pp. 738-752, 1994.
6. M. Krstic and P. V. Kokotovic, "Observer-based schemes for adaptive nonlinear state-feedback control," *International Journal of Control*, vol. 59, pp. 1373--1381, 1994.
7. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "Passivity and parametric robustness of a new class of adaptive systems." *Automatica*, vol. 30, pp. 1703--1716, 1994.
8. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear design with controller-identifier separation and swapping." *IEEE Transactions on Automatic Control*, vol. 40, pp. 426--441, 1995.
9. M. Krstic and P. V. Kokotovic, "Control Lyapunov functions for adaptive nonlinear stabilization." *Systems Control Letters*, vol. 26, pp. 17--23, 1995.
10. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear output-feedback schemes with Marino-Tomei controller." *IEEE Transactions on Automatic Control*, vol. 41, pp. 274-80, 1996.
11. M. Krstic and P. V. Kokotovic, "Modular approach to adaptive nonlinear stabilization." *Automatica*, vol. 32, pp. 625--629, 1996.
12. M. Krstic, J. Sun and P. V. Kokotovic, "Robust control of nonlinear systems with input unmodeled dynamics." *IEEE Transactions on Automatic Control*, vol. 41, pp. 913--920, 1996.
13. M. Krstic, "Invariant manifolds and asymptotic properties of adaptive nonlinear stabilizers." *IEEE Transactions on Automatic Control*, vol. 41, pp. 817--829, 1996.
14. M. M. Monahemi and M. Krstic, "Control of wing rock motion using adaptive feedback linearization." *Journal of Guidance, Control, and Dynamics*, vol 19, pp. 905--912, 1996.
15. Z.-H. Li and M. Krstic, "Maximizing regions of attraction via backstepping and CLFs with singularities." *Systems and Control Letters*, vol. 30, pp. 195-207, 1997.
16. Z. H. Li and M. Krstic, "Optimal design of adaptive tracking controllers for nonlinear systems." *Automatica*, vol. 33, pp. 1459-1473, 1997.

17. H. Deng and M. Krstic, "Stochastic nonlinear stabilization---Part I: A backstepping design," *Systems and Control Letters*, vol. 32, pp. 143-150, 1997.
18. H. Deng and M. Krstic, "Stochastic nonlinear stabilization---Part II: Inverse optimality," *Systems and Control Letters*, vol. 32, pp. 151-159, 1997.
19. M. Krstic and Z. H. Li, "Inverse optimal design of input-to-state stabilizing nonlinear controllers," *IEEE Transactions on Automatic Control*, vol. 43, pp. 336-351, 1998.
20. F. Ikhouane and M. Krstic, "Robustness of the tuning functions adaptive backstepping design for linear systems," *IEEE Transactions on Automatic Control*, vol. 43, pp. 431-437, 1998.
21. Z.-H. Li and M. Krstic, "Geometric/asymptotic properties of adaptive nonlinear systems with partial excitation," *IEEE Transactions on Automatic Control*, vol. 43, pp. 419-425, 1998.
22. F. Ikhouane and M. Krstic, "Adaptive backstepping with parameter projection: robustness and asymptotic performance," *Automatica*, vol. 34, pp. 429-435, 1998.
23. M. Krstic, D. Fontaine, P. V. Kokotovic, and J. Paduano, "Useful nonlinearities and global bifurcation control of jet engine surge and stall," *IEEE Transactions on Automatic Control*, vol.43, p.1739-45, 1998.
24. R. A. Freeman, M. Krstic, and P. V. Kokotovic, "Robustness of adaptive nonlinear control to bounded uncertainties," *Automatica*, vol.34, p.1227-30, 1998.
25. H. Deng and M. Krstic, "Output-feedback stochastic nonlinear stabilization," *IEEE Transactions on Automatic Control*, vol.44, p.328-33, 1999.
26. M. Krstic and P. Tsiotras, "Inverse optimality results for the attitude motion of a rigid spacecraft," *IEEE Transactions on Automatic Control*, vol.44, p.1042-9, 1999.
27. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Self-tuning control of a nonlinear model of combustion instabilities," *IEEE Transactions on Control Systems Technology*, vol.7, p.424-436, 1999.
28. M. Krstic, "On global stabilization of Burgers' equation by boundary control," *Systems and Control Letters*, vol.37, p.123-142, 1999.
29. H.-H. Wang, M. Krstic, and G. Bastin, "Optimizing bioreactors by extremum seeking," *International Journal of Adaptive Control and Signal Processing*, vol. 13, pp. 651-669, 1999.
30. D. Boskovic and M. Krstic, "Global attitude/position regulation for underwater vehicles," *International Journal of Systems Science*, vol. 30, pp. 939-946, 1999.
31. K.B.Ariyur and M. Krstic, "Feedback attenuation and adaptive cancellation of blade-vortex interaction noise on a helicopter blade element," *IEEE Transactions on Control Systems Technology*, vol. 7, pp. 424-426, 1999.
32. H.-H. Wang, S. Yeung, and M. Krstic, "Experimental application of extremum seeking on an axial-flow compressor," *IEEE Transactions on Control Systems Technology*, vol. 8, pp. 300-309, 1999.
33. H. Deng and M. Krstic, "Output-feedback stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *Systems and Control Letters*, vol. 39, pp. 173-182, 2000.

34. H.-H. Wang and M. Krstic, "Extremum seeking for limit cycle minimization," *IEEE Transactions on Automatic Control*, vol. 45, pp. 2432-2436, 2000.
35. M. Krstic and H. H. Wang, "Stability of extremum seeking feedback for general dynamic systems," *Automatica*, vol. 36, pp. 595-601, 2000.
36. W.-J. Liu and M. Krstic, "Stability enhancement by boundary control in the Kuramoto-Sivashinsky equation," *Nonlinear Analysis*, vol. 43, pp. 485-583, 2000.
37. M. Krstic, "Performance improvement and limitations in extremum seeking control," *Systems & Control Letters*, vol. 39, pp. 313-326, 2000.
38. W.-J. Liu and M. Krstic, "Strong stabilization of the system of linear elasticity by a Dirichlet boundary feedback," *IMA Journal of Applied Mathematics*, vol. 65, pp. 109-121, 2000.
39. H.-H. Wang, M. Krstic, and M. Larsen, "Control of deep hysteresis aeroengine compressors," *Journal of Dynamic Systems, Measurement, and Control*, vol. 122, pp. 140-152, 2000.
40. A. Balogh and M. Krstic, "Burgers' equation with nonlinear boundary feedback: H^1 stability, well posedness, and simulation," *Mathematical Problems in Engineering*, vol. 6, pp. 189-200, 2000.
41. A. Balogh and M. Krstic, "Boundary control of the Korteweg--de Vries--Burgers equation: Further results on stabilization and numerical demonstration," *IEEE Transactions on Automatic Control*, vol. 45, pp. 1739-1745, 2000.
42. W.-J. Liu and M. Krstic, "Backstepping boundary control of Burgers' equation with actuator dynamics," *Systems & Control Letters*, vol. 41, pp. 291-303, 2000.
43. H. Ito and M. Krstic, "Recursive scaling design for robust global nonlinear stabilization via output feedback," *International Journal of Robust and Nonlinear Control*, vol. 10, pp. 821-48, 2000.
44. S. Murugappan, E. Gutmark, S. Acharya, and M. Krstic, "Extremum seeking adaptive controller of swirl-stabilized spray combustion," *Proceedings of the Combustion Institute*, vol. 28, 2000.
45. H. Deng, M. Krstic, and R. Williams, "Stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *IEEE Transactions on Automatic Control*, vol. 46, pp. 1237-1253, 2001.
46. W.-J. Liu and M. Krstic, "Global boundary stabilization of the Korteweg-de Vries-Burgers equation," *Computational and Applied Mathematics*, vol. 21, pp. 315-354, 2002.
47. W.-J. Liu and M. Krstic, "Adaptive control of Burgers' equation with unknown viscosity," *International Journal of Adaptive Control and Signal Processing*, vol. 15, pp. 745-766, 2001.
48. A. Balogh, W.-J. Liu, and M. Krstic, "Stability enhancement by boundary control in 2D channel flow" *IEEE Transactions on Automatic Control*, vol. 46, pp. 1696-1711, 2001.
49. J.-Y. Choi, M. Krstic, K. B. Ariyur, and J. S. Lee, "Extremum seeking control for discrete-time systems," *IEEE Transactions on Automatic Control*, vol. 47, pp. 318-323, 2002.
50. D. Boskovic and M. Krstic, "Nonlinear stabilization of a thermal convection loop by state feedback,"

Automatica, vol. 37, pp. 2033-2040, 2001.

51. D. Boskovic, M. Krstic, and W.-J. Liu, "Boundary control of an unstable heat equation via measurement of domain-averaged temperature," *IEEE Transactions on Automatic Control*, vol. 46, pp. 2022-2028, 2001.
52. A. Balogh and M. Krstic, "Infinite-dimensional backstepping-style feedback transformations for a heat equation with an arbitrary level of instability," *European Journal of Control*, vol. 8, pp. 165-177, 2002.
53. D. Boskovic and M. Krstic, "Backstepping control of chemical tubular reactors," *Computers and Chemical Engineering*, vol. 26, pp. 1077--1085, 2002.
54. D. Boskovic and M. Krstic, "Stabilization of a solid propellant rocket instability by state feedback," *International Journal of Robust and Nonlinear Control*, vol. 13, pp. 483-495, 2003.
55. D. Boskovic, A. Balogh, and M. Krstic, "Backstepping in infinite dimension for a class of parabolic distributed parameter systems," *Mathematics of Control, Signals, and Systems*, vol. 16, pp. 44-75, 2003.
56. A. Banaszuk, K. B. Ariyur, M. Krstic, and C. A. Jacobson, "An adaptive algorithm for control of combustion instability," *Automatica*, vol 14, pp. 1965-1972, 2004.
57. P. Binetti, K. B. Ariyur, M. Krstic, and F. Bernelli, "Formation flight optimization using extremum seeking feedback," *AIAA Journal of Guidance, Control and Dynamics*, vol. 26, pp. 132--142, 2003.
58. E. Schuster, M. Krstic, and G. Tynan, "Burn control in fusion reactors via nonlinear stabilization techniques," *Fusion Science and Technology*, vol. 43, pp. 18--37, 2003.
59. A. Smyshlyaev and M. Krstic, "Explicit state and output feedback boundary controllers for partial differential equations," *Journal of Automatic Control*, University of Belgrade, vol. 13, pp. 1-9, 2003.
60. O. M. Aamo, M. Krstic, and T. R. Bewley, "Control of mixing by boundary feedback in 2D channel flow," *Automatica*, vol. 39, pp. 1597-1606, 2003.
61. A. Aliseda, K. Ariyur, O. Sarrazin, J. C. Lasheras, and M. Krstic, "Tailored fuel injection for pulsed detonation engines via feedback control," *AIAA Journal of Propulsion and Power*, vol. 19, pp. 917-921, 2003.
62. Y. Hu, O. Koroleva, and M. Krstic, "Nonlinear control of mine ventilation networks," *Systems and Control Letters*, vol. 49, pp. 239-254, 2003.
63. M. Krstic, "Discussion on: `Adaptive extremum seeking control of fed-batch bioreactors," *European Journal of Control*, vol. 9, pp. 632-633, 2003.
64. E. Schuster and M. Krstic, "Control of a nonlinear PDE system arising from non-burning tokamak plasma transport dynamics," *International Journal of Control*, vol. 76, pp. 1116-1124, 2003.
65. K. Ariyur and M. Krstic, "Slope seeking: A generalization of extremum seeking," *International Journal of Adaptive Control and Signal Processing*, vol. 18, pp. 1-22, 2004.
66. O. M. Aamo and M. Krstic, "Global stabilization of a nonlinear Ginzburg-Landau model of vortex shedding," *European Journal of Control*, vol. 10, pp. 105-116, 2004.
67. A. Balogh, O. M. Aamo and M. Krstic, "Optimal mixing enhancement in 3D pipe flow," *IEEE Transactions*

- on *Control Systems Technology*, vol. 13, pp. 27-41, 2005.
68. M. Krstic, "Feedback linearizability and explicit integrator forwarding controllers for classes of feedforward systems," *IEEE Transactions on Automatic Control*, vol. 49, pp. 1668-1682, 2004.
 69. O.-M. Aamo and M. Krstic, "Feedback control of particle dispersion in bluff body wakes," *International Journal of Control*, vol. 77, pp. 1001-1018, 2004.
 70. C.C. Yuan, M. Krstic, and T. Bewley, "Active control of jet mixing," *IEE Proceedings: Control Theory and Applications*, vol. 151, pp. 763-772, 2004.
 71. O.-M. Aamo, Andrey Smyshlyaev, and M. Krstic, "Boundary control of the linearized Ginzburg-Landau model of vortex shedding," *SIAM Journal of Control and Optimization*, vol. 43, pp. 1953-1971, 2005.
 72. O. Koroleva and M. Krstic, "Averaging analysis of periodically forced fluid flow networks," *Automatica*, vol. 41, pp. 129-135, 2005.
 73. A. Smyshlyaev and M. Krstic, "Closed form boundary state feedbacks for a class of partial integro-differential equations," *IEEE Transactions on Automatic Control*, vol. 49, pp. 2185-2202, 2004.
 74. A. Balogh and M. Krstic, "Stability of partial difference equations governing control gains in infinite-dimensional backstepping," *Systems and Control Letters*, vol. 51, pp. 151-164, 2004.
 75. E. Schuster, M. L. Walker, D. A. Humphreys, and M. Krstic, "Plasma vertical stabilization with actuator constraints in the DIII-D tokamak," *Automatica*, vol. 41, pp. 1173-1179, 2005.
 76. A. Smyshlyaev and M. Krstic, "Backstepping observers for a class of parabolic PDEs," *Systems and Control Letters*, vol. 54, pp. 613-625, 2005.
 77. R. Vazquez and M. Krstic, "Explicit integral operator feedback for local stabilization of nonlinear thermal convection loop PDEs," *Systems and Control Letters*, vol. 55, pp. 624-632, 2006.
 78. A. Smyshlyaev and M. Krstic, "On control design for PDEs with space-dependent diffusivity and time-dependent reactivity," *Automatica*, vol. 41, pp. 1601-1608, 2005.
 79. M. Krstic and A. Banaszuk, "Multivariable adaptive control of instabilities arising in jet engines," *Control Engineering Practice*, vol. 14, pp. 833-842, 2006.
 80. N. Killingsworth and M. Krstic, "PID tuning using extremum seeking," *Control Systems Magazine*, vol. 26, pp. 70-79, February 2006.
 81. M. Krstic, "Systematization of approaches to adaptive boundary control of PDEs," *International Journal of Robust and Nonlinear Control*, vol. 16, pp. 801-818, 2006.
 82. O. Koroleva, M. Krstic, and G. Schmid-Schonbein, "Decentralized and adaptive control of nonlinear fluid flow networks," *International Journal of Control*, vol. 79, pp. 1495-1504, 2006.
 83. M. Krstic and M. Bement, "Non-overshooting control of strict-feedback nonlinear systems," *IEEE Transactions on Automatic Control*, vol. 51, pp. 1938-1943, 2006.
 84. C. Zhang, D. Arnold, N. Ghods, A. Siranosian, and M. Krstic, "Source seeking with nonholonomic unicycle

without position measurement and with tuning of forward velocity,” *Systems and Control Letters*, vol. 56, pp. 245-252, 2007.

85. C. Zhang, A. Siranosian, and M. Krstic, “Extremum seeking for moderately unstable systems and for autonomous vehicle target tracking without position measurements,” *Automatica*, vol. 43, pp. 1832-1839, 2007.
86. O. M. Aamo, A. Smyshlyaev, M. Krstic, and B. Foss, “Stabilization of a Ginzburg-Landau model of vortex shedding by output-feedback boundary control,” *IEEE Transactions on Automatic Control*, vol. 52, pp. 742-748, 2007.
87. W. Liu and M. Krstic, “Boundary feedback stabilization of homogeneous equilibria in unstable fluid mixtures,” *International Journal of Control*, vol. 80, pp. 1-7, 2007.
88. M. Krstic and A. Smyshlyaev, “Adaptive boundary control for unstable parabolic PDEs - Part I: Lyapunov design,” *IEEE Transactions on Automatic Control*, vol. 53, pp. 1575-1591, 2008.
89. A. Smyshlyaev and M. Krstic, “Adaptive boundary control for unstable parabolic PDEs - Part II: Estimation-based designs,” vol. 43, pp. 1543-1556, *Automatica*, 2007.
90. A. Smyshlyaev and M. Krstic, “Adaptive boundary control for unstable parabolic PDEs - Part III: Output-feedback examples with swapping identifiers,” vol. 43, pp. 1557-1564, *Automatica*, 2007.
91. R. Vazquez and M. Krstic, “A closed-form feedback controller for stabilization of the linearized 2D Navier-Stokes Poiseuille flow,” *IEEE Transactions on Automatic Control*, vol. 52, pp. 2298-2312, 2007.
92. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, “Output-feedback stabilization of an unstable wave equation,” *Automatica*, vol. 44, pp. 63-74, 2008.
93. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, “Control of a tip-force destabilized shear beam by non-collocated observer-based boundary feedback,” *SIAM Journal on Control and Optimization*, vol. 47, pp. 553-574, 2008.
94. E. Schuster, C. Xu, N. Torres, E. Morinaga, C. K. Allen, and M. Krstic, “Beam matching adaptive control via extremum seeking,” *Nuclear Instruments and Methods in Physics Research A*, vol. 581, pp. 799-815, 2007.
95. E. Schuster, M. Krstic, and G. Tynan, “Nonlinear Lyapunov-based burn control of fusion reactors,” *Fusion Engineering and Design*, vol. 64, pp. 567-575, 2002.
96. M. Krstic and A. Smyshlyaev, “Backstepping boundary control for first order hyperbolic PDEs and application to systems with actuator and sensor delays,” *Systems & Control Letters*, vol. 57, pp. 750-758, 2008.
97. E. Schuster, L. Luo, and M. Krstic, “MHD channel flow control in 2D: Mixing enhancement by boundary feedback,” *Automatica*, vol. 44, pp. 2498-2507, 2008.
98. R. Vazquez, E. Schuster, and M. Krstic, “Magnetohydrodynamic state estimation with boundary sensors,” *Automatica*, vol. 44, pp. 2517-2527, 2008.

99. R. Vazquez, and M. Krstic, "Boundary observer for output-feedback stabilization of thermal convection loop," *IEEE Transactions on Control Systems Technology*, vol. 18, pp. 789-797, 2010.
100. C. Xu, E. Schuster, R. Vazquez, and M. Krstic, "Stabilization of linearized 2D magnetohydrodynamic channel flow by backstepping boundary control," *Systems & Control Letters*, vol. 57 pp. 805-812, 2008.
101. R. Vazquez and M. Krstic, "Control of 1-D parabolic PDEs with Volterra nonlinearities – Part I: Design," *Automatica*, vol. 44, pp. 2778-2790, 2008.
102. R. Vazquez and M. Krstic, "Control of 1-D parabolic PDEs with Volterra nonlinearities – Part II: Analysis," *Automatica*, vol. 44, pp. 2791-2803, 2008.
103. C. Manzie and M. Krstic, "Extremum seeking with stochastic perturbations," *IEEE Transactions on Automatic Control*, vol. 54, pp. 580-585, 2009.
104. J. Cochran and M. Krstic, "Nonholonomic source seeking with tuning of angular velocity," *IEEE Transactions on Automatic Control*, vol. 54, pp. 717-731, 2009.
105. A. Smyshlyaev, Y. Orlov, and M. Krstic, "Adaptive identification of two unstable PDEs with boundary sensing and actuation," *International Journal of Adaptive Control and Signal Processing*, vol 23, pp. 131-149, 2009.
106. M. Krstic, "On compensating long actuator delays in nonlinear control," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1684--1688, 2008.
107. M. Krstic, "Lyapunov tools for predictor feedbacks for delay systems: Inverse optimality and robustness to delay mismatch," *Automatica*, vol. 44, pp. 2930-2935, 2008.
108. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear stabilization of shock-like unstable equilibria in the viscous Burgers PDE," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1678-1683, 2008.
109. M. Krstic, L. Magnis, and R. Vazquez, "Nonlinear control of the viscous Burgers equation: Trajectory generation, tracking, and observer design," *Journal of Dynamic Systems, Measurement, and Control*, vol. 131, paper 021012 (8 pages), 2009.
110. M. Krstic and A. Smyshlyaev, "Adaptive control of PDEs," *Annual Reviews in Control*, vol 32, pp. 149-160, 2008.
111. M. Krstic, "Optimal adaptive control – Contradiction in terms or a matter of choosing the right cost functional?," *IEEE Transactions on Automatic Control*, vol. 53, pp. 1942-1947, 2008.
112. N. J. Killingsworth, M. Krstic, D. L. Flowers, F. Espinoza-Loza, T. Ross, and S. M. Aceves, "HCCI engine combustion timing control: Optimizing gains and fuel consumption via extremum seeking," *IEEE Transactions on Control Systems Technology*, vol. 17, pp. 1350-1361, 2009.
113. J. Cochran and M. Krstic, "Motion planning and trajectory tracking for the 3-D Poiseuille flow," *Journal of Fluid Mechanics*, vol. 626, pp. 307–332, 2009.
114. M. Krstic, "On using least-squares updates without regressor filtering in identification and adaptive control of nonlinear systems," *Automatica*, vol. 45, pp. 731-735, 2009.

115. J. Cochran, N. Ghods, A. Siranosian, and M. Krstic, ``3D source seeking for underactuated vehicles without position measurement,'' *IEEE Transactions on Robotics*, vol. 25, pp. 117-129, 2009.
116. A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, ``Motion planning and tracking for tip displacement and deflection angle for flexible beams,'' *Journal of Dynamic Systems, Measurement, and Control*, vol 131, 2009.
117. R. Vazquez, E. Schuster, and M. Krstic, ``A closed-form full-state feedback controller for stabilization of 3D magnetohydrodynamic channel flow,'' *Journal of Dynamic Systems, Measurement, and Control*, vol. 131, 2009.
118. A. Smyshlyaev, B.-Z. Guo, and M. Krstic, ``Arbitrary decay rate for Euler-Bernoulli beam by backstepping boundary feedback,'' *IEEE Transactions on Automatic Control*, vol. 54, pp. 1134-1141, 2009.
119. M. Krstic, ``Compensating actuator and sensor dynamics governed by diffusion PDEs,'' *Systems and Control Letters*, vol. 58, pp. 372-377, 2009.
120. M. Krstic, ``Compensating a string PDE in the actuation or sensing path of an unstable ODE,'' *IEEE Transactions on Automatic Control*, vol. 54, pp. 1362-1368, 2009.
121. M. Krstic, ``Input delay compensation for forward complete and feedforward nonlinear systems,'' *IEEE Transactions on Automatic Control*, vol. 55, pp. 287-303, 2010.
122. A. Smyshlyaev and M. Krstic, ``Boundary control of an anti-stable wave equation with anti-damping on the uncontrolled boundary,'' *Systems & Control Letters*, vol. 58, pp. 617-623, 2009.
123. D. Bresch-Pietri and M. Krstic, ``Adaptive trajectory tracking despite unknown input delay and plant parameters,'' *Automatica*, vol. 45, pp. 2075-2081, 2009.
124. J. Cochran, E. Kansa, S. D. Kelly, H Xiong, M. Krstic, ``Source seeking for two nonholonomic models of fish locomotion,'' *IEEE Transactions on Robotics*, vol. 25, pp. 1166-1176, 2009.
125. M. Krstic, ``Lyapunov stability of linear predictor feedback for time-varying input delay,'' *IEEE Transactions on Automatic Control*, vol. 55, pp. 554-559, 2010.
126. M. Krstic, ``Control of an unstable reaction-diffusion PDE with long input delay,'' *Systems and Control Letters*, vol. 58, pp 773-782, 2009.
127. M. Krstic, ``Compensation of infinite-dimensional actuator and sensor dynamics: Nonlinear and delay-adaptive systems,'' *IEEE Control Systems Magazine*, vo. 30, pp. 22-41, 2010.
128. G. A. Susto and M. Krstic, ``Control of PDE-ODE cascades with Neumann interconnections,'' *Journal of the Franklin Institute*, invited special issue Dynamics and Control, guest editor F. Udawadia, vol. 347, pp. 284-314, 2010.
129. N. Ghods and M. Krstic, ``Speed regulation in steering-based source seeking,'' *Automatica*, vol. 46, pp. 452-459, 2010.
130. A. Smyshlyaev, E. Cerpa, and M. Krstic, ``Boundary stabilization of a 1-D wave equation with in-domain

- anti-damping," *SIAM Journal of Control and Optimization*, vol. 48, pp. 4014-4031, 2010.
131. S.-J. Liu and M. Krstic, "Continuous-time stochastic averaging on infinite interval for locally Lipschitz systems," *SIAM Journal of Control and Optimization*, vol. 48, pp. 3589-3622, 2010.
 132. N. Bekiaris-Liberis and M. Krstic, "Delay-adaptive feedback for linear feedforward systems," *Systems and Control Letters*, vol. 59, pp. 277-283, 2010.
 133. M. Krstic, "Adaptive control of an anti-stable wave PDE," *Dynamics of Continuous, Discrete, and Impulsive Systems*, invited paper in the special issue in the honor of Professor Hassan Khalil, vol. 17, pp. 853-882, 2010.
 134. S.-J. Liu and M. Krstic, "Stochastic averaging in continuous time and its applications to extremum seeking," *IEEE Transactions on Automatic Control*, vol. 55, pp. 2235-2250, 2010.
 135. S.-J. Liu and M. Krstic, "Stochastic source seeking for nonholonomic unicycle," *Automatica*, vol. 46, pp. 1443-1453, 2010.
 136. M. Krstic, "Dead-time compensation for wave/string PDEs," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 133, paper 031004 (13 pages), 2011.
 137. A. Smyshlyaev, T. Meurer, and M. Krstic, "Further results on stabilization of shock-like equilibria of the viscous Burgers PDE," *IEEE Transactions on Automatic Control*, vol. 55, pp. 1942-1946, 2010.
 138. D. Bresch-Pietri and M. Krstic, "Delay-adaptive predictor feedback for systems with unknown long actuator delay," *IEEE Transactions on Automatic Control*, vol. 55, pp. 2106-2112, 2010.
 139. M. Krstic and N. Bekiaris-Liberis, "Compensation of infinite-dimensional input dynamics," *IFAC Annual Reviews*, vol. 34, pp. 233-244, 2010.
 140. N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of a wave PDE in the actuation or sensing path of MIMO LTI Systems," *Systems & Control Letters*, vol. 59, pp. 713-719, 2010.
 141. N. Bekiaris-Liberis and M. Krstic, "Stabilization of linear strict-feedback systems with delayed integrators," *Automatica*, vol. 46, pp. 1902-1910, 2010.
 142. N. Bekiaris-Liberis and M. Krstic, "Lyapunov stability of linear predictor feedback for distributed input delay," *IEEE Transactions on Automatic Control*, vol. 56, pp. 655-660, 2011.
 143. N. Bekiaris-Liberis and M. Krstic, "Compensating distributed effect of diffusion and counter-convection in multi-input and multi-output LTI systems," *IEEE Transactions on Automatic Control*, vol. 56, pp. 637-642, 2011.
 144. J.-M. Wang, B.-Z. Guo, and M. Krstic, "Wave equation stabilization by delays equal to even multiples of wave propagation time," *SIAM Journal of Control and Optimization*, vol. 49, pp. 517-554, 2011.
 145. N. Ghods and M. Krstic, "Source seeking with very slow or drifting sensors," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 133, paper 044504 (8 pages), 2011.
 146. P. Frihauf and M. Krstic, "Leader-enabled deployment into planar curves: A PDE-based approach," *IEEE Transactions on Automatic Control*, vol. 56, pp. 1791-1806, 2011.

147. N. Ghods and M. Krstic, ``Multiagent deployment over a source,'' *IEEE Transactions on Control Systems Technology*, vol. 20, pp. 277-285, 2012.
148. A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, ``Gain scheduling-inspired control for nonlinear PDEs,'' *Journal of Dynamic Systems, Measurement, and Control*, paper 051007-1, vol. 133, 2011.
149. M. Krstic, B.-Z. Guo, and A. Smyshlyaev, ``Boundary controllers and observers for the linearized Schrodinger equation,'' *SIAM Journal of Control and Optimization*, vol. 49, 1479-1497, 2011.
150. S.-J. Liu and M. Krstic, ``Stochastic Nash equilibrium seeking for games with general nonlinear payoffs,'' *SIAM Journal of Control and Optimization*, vol. 49, pp. 1659-1679, 2011.
151. J. Gray, M. Krstic, N. Chaturvedi, ``Parameter identification for electrohydraulic valvetrain systems,'' *ASME Journal of Dynamic Systems, Measurement, and Control*, paper 064502 (8 pages), vol. 113, 2011.
152. T. Meurer and M. Krstic, ``Finite-time multi-agent deployment: A nonlinear PDE motion planning approach,'' *Automatica*, vol. 37, pp. 2534-2542, 2011.
153. J. P. Krieger and M. Krstic, ``Extremum seeking based on atmospheric turbulence for aircraft endurance,'' *AIAA Journal of Guidance, Control, and Dynamics*, vol. 34, pp. , 1876-1885, 2011.
154. N. Bekiaris-Liberis and M. Krstic, ``Compensation of time-varying input and state delays for nonlinear systems,'' *Journal of Dynamic Systems, Measurement, and Control*, vol. 134, paper 011009, 2012.
155. J.-M. Wang, B. Ren, and M. Krstic, ``Stabilization and Gevrey regularity of a Schrodinger equation in boundary feedback with a heat equation,'' *IEEE Transactions on Automatic Control*, vol. 57, pp. 179-185, 2012.
156. I. Karafyllis and M. Krstic, ``Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold,'' *IEEE Transactions on Automatic Control*, vol. 57, pp. 1141-1154, 2012.
157. P. Frihauf, M. Krstic, and T. Basar, ``Nash equilibrium seeking in non-cooperative games,'' *IEEE Transactions on Automatic Control*, vol. 57, pp. 1192-1207, 2012.
158. B. Ren, P. Frihauf, R. Rafac, and M. Krstic, ``Laser pulse shaping via extremum seeking,'' *Control Engineering Practice*, vol. 20, pp. 678-683, 2012.
159. I. Karafyllis and M. Krstic, ``Global stabilization of feedforward systems under perturbations in sampling schedule,'' *SIAM Journal of Control and Optimization*, vol. 50, pp. 1389-1412, 2012.
160. F. Mazenc, S.-I. Niculescu, and M. Krstic, ``Lyapunov-Krasovskii functionals and application to input delay compensation for linear time-invariant systems,'' *Automatica*, vol. 48, pp. 1317-1323, 2012.
161. A. Ghaffari, M. Krstic, and D. Nesic, ``Multivariable Newton-based extremum seeking,'' *Automatica*, vol. 48, pp. 1759-1767, 2012.
162. N. Bekiaris-Liberis and M. Krstic, ``Compensation of state-dependent input delay for nonlinear systems,'' *IEEE Transactions on Automatic Control*, to appear.

163. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Compensation of state-dependent state delay for nonlinear systems," *Systems & Control Letters*, vol. 61, pp. 894-856, 2012.
164. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Adaptive stabilization of LTI systems with distributed input delay," *International Journal of Adaptive Control and Signal Processing*, vol. 27, pp. 46-65, 2013.
165. H. I. Basturk and M. Krstic, "Adaptive cancellation of matched unknown sinusoidal disturbances for LTI systems by state derivative feedback," *ASME Journal of Dynamic Systems, Measurement, and Control*, vol. 153, paper 014501-2, 2013.
166. J. Krieger and M. Krstic, "Aircraft endurance maximization at medium Mach numbers by extremum seeking," *AIAA Journal of Guidance, Control, and Dynamics*, vol. 36, pp. 390-403, 2013.
167. B. Ren, J.-M. Wang, and M. Krstic, "Stabilization of an ODE-Schrodinger cascade," *Systems & Control Letters*, , vol. 62, pp. 503-510, 2013.
168. N. Bekiaris-Liberis and M. Krstic, "Robustness of nonlinear predictor feedback laws to time- and state-dependent delay perturbations," *Automatica*, vol. 49, pp. 1576-1590, 2013.
169. A. Scheinker and M. Krstic, "Maximum-seeking for CLFs: Universal semiglobally stabilizing feedback under unknown control directions," *IEEE Transactions on Automatic Control*, vol. 58, pp. 1107-1122, 2013.
170. I. Karafyllis and M. Krstic, "Delay-robustness of linear predictor feedback without restriction on delay rate," *Automatica*, vol. 49, pp. 1761-1767, 2013.
171. J.-M. Coron, R. Vazquez, M. Krstic, and G. Bastin, "Local exponential H2 stabilization of a 2x2 quasilinear hyperbolic system using backstepping," *SIAM Journal of Control and Optimization*, vol. 51, pp. 2005-2035, 2013.
172. N. Bekiaris-Liberis and M. Krstic, "Nonlinear control under delays that depend on delayed states," *European Journal of Control*, vo. 19, pp. 389-398, 2013.
173. P. Frihauf, M. Krstic, and T. Basar, "Finite-horizon LQ control for unknown discrete-time linear systems via extremum seeking," *European Journal of Control*, vol. 19, pp. 399-407, 2013.
174. A. Paranjape, S.-J. Chung, and M. Krstic, "PDE boundary control for flexible articulated wings on a robotic aircraft," *IEEE Transactions on Robotics*, vol. 29, pp. 625-640, 2013.
175. H. Basturk and M. Krstic, "Adaptive wave cancellation by acceleration feedback for ramp-connected air cushion-actuated surface effect ships," *Automatica*, vol. 49, pp. 2591-2602, 2013.
176. G. Prior and M. Krstic, "A quantized-input control Lyapunov approach for motor drives," *IEEE Transactions on Control Systems Technology*, vol. 21, pp. 1784-1794, 2013.
177. A. Scheinker, M. Bland, M. Krstic, and J. Audia, "Rise-time optimization of accelerator high voltage converter modulator by extremum seeking," *IEEE Transactions on Control Systems Technology*, to appear.
178. I. Karafyllis and M. Krstic, "Robust predictor feedback for discrete-time systems with input delays," *International Journal of Control*, to appear.

	<p>179. M. Böhm, M. Krstic, S. Küchler, and O. Sawodny, "Modelling and boundary control of a hanging rope immersed in water," <i>ASME Journal of Dynamic Systems, Measurement, and Control</i>, to appear.</p> <p>180. S. Moura, M. Krstic, and N. Chaturvedi, "Adaptive PDE observer for battery SOC/SOH estimation via an electrochemical model," <i>ASME Journal of Dynamic Systems, Measurement, and Control</i>, to appear.</p> <p>181. F. Di Meglio, R. Vazquez, and M. Krstic, "Stabilization of a system of $n + 1$ coupled first-order hyperbolic linear PDEs with a single boundary input," <i>IEEE Transactions on Automatic Control</i>, to appear.</p> <p>182. M. Krstic and N. Bekiaris-Liberis, "Nonlinear stabilization in infinite dimension," <i>Annual Reviews in Control</i>, to appear.</p> <p>183. I. Karafyllis and M. Krstic, "Stabilization of nonlinear delay systems using approximate predictors and high-gain observers," <i>Automatica</i>, to appear.</p>
<p>РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА</p>	<ol style="list-style-type: none"> 1. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "Interlaced controller-observer design for adaptive nonlinear control," <i>Proceedings of the 1992 American Control Conference</i>, Chicago, IL, pp. 1337--1342, 1992. 2. P. V. Kokotovic, I. Kanellakopoulos, M. Krstic, "On letting adaptive control be what it is: nonlinear feedback," in L. Dugard, M. M'Saad and I. Landau (Eds.), <i>Adaptive Systems in Control and Signal Processing 1992</i>, Oxford, UK: Pergamon Press, 1993, pp. 79--85. 3. P. V. Kokotovic, M. Krstic and I. Kanellakopoulos, "Backstepping to passivity: recursive design of adaptive systems," <i>Proceedings of the 31st IEEE Conference on Decision and Control</i>, Tucson, AZ, pp. 3276--3280, 1992. 4. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "A new generation of adaptive controllers for linear systems," <i>Proceedings of the 31st IEEE Conference on Decision and Control</i>, Tucson, AZ, pp. 3644--3650, 1992. 5. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "Passivity and parametric robustness of a new class of adaptive systems," <i>Proceedings of the 12th IFAC World Congress</i>, Sydney, Australia, vol. 3, pp. 1--8, 1993. 6. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Performance analysis for recursive passive adaptive controllers," <i>Proceedings of the 1993 IEEE Conference on Aerospace Control Systems</i>, Westlake Village, CA, pp. 195--199. 7. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "Adaptive nonlinear output-feedback control with an observer-based identifier," <i>Proceedings of the 1993 American Control Conference</i>, San Francisco, CA, pp. 2821--2825, 1993. 8. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "Trajectory initialization in adaptive nonlinear control," <i>Proceedings of the 1993 IEEE Mediterranean Symposium on New Directions in Control Theory</i>, Chania, Grece, 1993.

9. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear control with nonlinear swapping," *Proceedings of the 32nd IEEE Conference on Decision and Control*, San Antonio, TX, pp. 1073--1080, 1993.
10. I. Kanellakopoulos, M. Krstic and P. V. Kokotovic, "Adaptive control of output-feedback nonlinear systems," *Proceedings of the 32nd IEEE Conference on Decision and Control*, San Antonio, TX, pp. 1061--1066, 1993.
11. M. Krstic and P. V. Kokotovic, "Adaptive nonlinear output-feedback schemes with Marino-Tomei controller," *Proceedings of the 1994 American Control Conference*, Baltimore, MD, pp. 861--866, 1994.
12. M. Krstic, J. Sun and P. V. Kokotovic, "Control of feedback linearizable systems with input unmodeled dynamics," *Proceedings of the 33rd IEEE Conference on Decision and Control*, Lake Buena Vista, FL, pp. 1633--1638, 1994.
13. P. V. Kokotovic, R. A. Freeman, and M. Krstic, "Robust and adaptive nonlinear control," *Proceedings of the 1994 Hong Kong Workshop on New Directions of Control and Manufacturing*.
14. M. Krstic and P. V. Kokotovic, "Lyapunov and ISS frameworks for adaptive nonlinear stabilization," *Proceedings of the IFAC Symposium on Nonlinear Control System Design*, Tahoe City, CA, pp. 119--124, 1995.
15. M. Krstic, "Asymptotic properties of adaptive nonlinear stabilizers," *Proceedings of the 1995 American Control Conference*, Seattle, WA, pp. 576--581, 1995.
16. M. Krstic and P. V. Kokotovic, "Modular approach to adaptive nonlinear stabilization," *Proceedings of the 5th IFAC Symposium on Adaptive Systems in Control and Signal Processing*, Budapest, Hungary, 1995.
17. M. M. Monahemi, J. B. Barlow, and M. Krstic, "Control of wing rock motion of slender delta wings using adaptive feedback linearization," *AIAA Guidance, Navigation, and Control Conference*, Baltimore, MD, pp. 1564--1575, 1995.
18. J. Sun, M. Krstic, and P. V. Kokotovic, "Adaptive control for a class of nonlinear systems: stabilization and regulation," *Proceedings of the IFAC Conference on Youth Automation*, Beijing, China, August 1995, to appear.
19. M. Krstic and P. V. Kokotovic, "Lean backstepping design for a jet engine compressor model," *Proceedings of the 4th IEEE Conference on Control Applications*, Albany, NY, 1995, pp. 1047--1052.
20. M. Krstic, J. Sun and P. V. Kokotovic, "Robust control of strict- and output-feedback systems with input unmodeled dynamics," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995, pp. 2257--2262.
21. M. Krstic and P. V. Kokotovic, "Estimation-based adaptive backstepping designs for linear systems," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995, pp. 3935--3940.
22. M. Krstic, J. M. Protz, J. D. Paduano, and P. V. Kokotovic, "Backstepping designs for jet engine stall and surge control," *Proceedings of the 34th IEEE Conference on Decision and Control*, New Orleans, LA, 1995,

pp. 3049--3055.

23. F. Ikhouane and M. Krstic, "Robustness of the tuning functions adaptive backstepping design for linear systems," *Proceedings of the 34th IEEE Conference on Decision and Control*, 1995, New Orleans, LA, 1995, pp. 159--164.
24. R. A. Freeman, M. Krstic, and P. V. Kokotovic, "Robustness of adaptive nonlinear control to bounded uncertainties," *1996 IFAC World Congress*.
25. M. Krstic and Z.-H. Li, "Invariant manifolds of adaptive nonlinear systems," *Proceedings of the 1996 Conference on Information Science and Systems*, Princeton, NJ, pp. 759--764.
26. M. M. Monahemi, J. B. Barlow, and M. Krstic, "Aircraft wing rock control using adaptive feedback linearization: some extensions," *1996 AIAA Guidance, Navigation, and Control Conference*, San Diego, CA, July 1996, AIAA paper 96-3770.
27. M. Krstic, "Lyapunov feedback design for stabilization of stall and surge in axial compressors," *1996 ASME International Mechanical Engineering Congress and Exposition*.
28. Z.-H. Li and M. Krstic, "Geometric/asymptotic properties of adaptive nonlinear systems with partial excitation," *35th IEEE Conference on Decision and Control*, 1996.
29. H.-H. Wang, M. Krstic, and M. Larsen, "Control of deep hysteresis aeroengine compressors---Part I: a Moore-Greitzer type model," *1997 American Control Conference*.
30. Z. H. Li and M. Krstic, "Input-to-state stabilizability is equivalent to solvability of an Isaacs equation," *1996 Conference on Information Science and Systems*.
31. H. Deng and M. Krstic, "Stochastic nonlinear optimal stabilization via backstepping," *1996 Conference on Information Science and Systems*.
32. M. Krstic and H.-H. Wang, "Control of deep hysteresis aeroengine compressors---Part II: design of control laws," *1997 American Control Conference*.
33. Z. H. Li and M. Krstic, "Optimal design of adaptive tracking controllers for nonlinear systems," *1997 American Control Conference*.
34. Z. H. Li and M. Krstic, "Maximizing regions of attraction in backstepping designs for systems with control singularities," *1997 American Control Conference*.
35. M. Krstic and P. Tsiotras, "Inverse optimality results for the attitude motion of a rigid spacecraft," *1997 American Control Conference*.
36. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Self-tuning control of a nonlinear model of combustion instabilities," *1997 IEEE Conference on Control Applications*.
37. M. Krstic, A. S. Krupadanam, and C. A. Jacobson, "Adaptive stabilization of nonlinear acoustic oscillations in combustion chambers," *1997 IEEE Conference on Decision and Control*.
38. H. Deng and M. Krstic, "Stochastic nonlinear Lyapunov stabilization and inverse optimality," *1997 IEEE*

- Conference on Decision and Control.*
39. H. Deng and M. Krstic, "Output-feedback stochastic nonlinear stabilization," *1997 IEEE Conference on Decision and Control.*
 40. M. Krstic and H. H. Wang, "Design and stability analysis of extremum seeking feedback for general nonlinear systems," *1997 IEEE Conference on Decision and Control.*
 41. K. B. Ariyur and M. Krstic, "Active control of blade-vortex interaction on a helicopter blade element," *SPIE 5th Annual International Symposium on Smart Structures and Materials*, 1997.
 42. M. Krstic, "Stability margins in inverse optimal input-to-state stabilization," *1998 American Control Conference.*
 43. H. Deng and M. Krstic, "Stabilization of stochastic nonlinear systems driven by noise of unknown covariance," *1998 American Control Conference.*
 44. K. B. Ariyur and M. Krstic, "Feedback attenuation and adaptive cancellation of blade-vortex interaction noise on a helicopter blade element," *1998 American Control Conference.*
 45. H. H. Wang, S. Yeung, and M. Krstic, "Experimental application of extremum seeking on an axial-flow compressor," *1998 American Control Conference.*
 46. H. Deng and M. Krstic, "Lyapunov analysis and control design for stochastic nonlinear systems," *1998 Symposium on Mathematical Theory of Networks and Systems.*
 47. H. Deng and M. Krstic, "Closed-form solutions of stochastic nonlinear control problems," *1998 Symposium on Nonlinear Control Systems.*
 48. H. Deng and M. Krstic, "Closed-form optimal controllers for nonlinear uncertain systems," *1998 International Mechanical Engineering Congress and Exposition.*
 49. H.-H. Wang and M. Krstic, "Extremum seeking for limit cycle minimization," *1998 IEEE Conference on Decision and Control.*
 50. M. Krstic, "Global stabilization of Burgers' equation by boundary control," *1998 IEEE Conference on Decision and Control.*
 51. H.-H. Wang, M. Krstic, and G. Bastin, "Optimum-seeking by feedback for bioreactor models," *1999 IFAC World Congress.*
 52. H. Deng and M. Krstic, "Output-feedback disturbance attenuation and adaptive control for stochastic nonlinear systems," *1999 IFAC World Congress.*
 53. H. Deng and M. Krstic, "Noise-to-state stabilization and adaptive control for stochastic nonlinear output feedback systems," *1999 American Control Conference.*
 54. W. J. Liu and M. Krstic, "Controlling nonlinear water waves: boundary stabilization of the Korteweg-de Vries-Burgers equation," *1999 American Control Conference.*
 55. A. Balogh and M. Krstic, "Global boundary stabilization and regularization of Burgers' equation," *1999*

American Control Conference.

56. W.-J. Liu and M. Krstic, "Boundary control of a Kuramoto-Sivashinsky equation with low anti-dissipation," *1999 American Control Conference.*
57. A. Balogh and M. Krstic, "Boundary control of the Korteweg-de Vries-Burgers equation: further results on stabilization and numerical demonstration," *1999 Mediterranean Control Conference.*
58. A. Balogh and M. Krstic, "Stability enhancement by boundary control in 2D channel flow-Part I: Regularity of solutions," *1999 Conference on Decision and Control.*
59. M. Krstic, "Towards faster adaptation in extremum seeking control," *1999 Conference on Decision and Control.*
60. H. Ito and M. Krstic, "Recursive state-dependent scaling design of robust output feedback control for global stabilization," *1999 Conference on Decision and Control.*
61. A. Balogh and M. Krstic, "Stability enhancement by boundary control in 2D channel flow-Part II: Numerical implementation and stability," *2000 American Control Conference.*
62. W.-J. Liu and M. Krstic, "Estimation of viscosity and controller strengthening in boundary stabilization of Burgers' equation," *2000 American Control Conference.*
63. W.-J. Liu and M. Krstic, "Coping with actuator dynamics using backstepping for boundary stabilization of Burgers' equation," *2000 American Control Conference.*
64. E. Elong and M. Krstic, "A case study of performance improvement in extremum seeking control," *2000 American Control Conference.*
65. E. Zergeloglu, D. M. Dawson, M. S. De Queiroz, and M. Krstic, "On global output feedback control of robot manipulators," *2000 Conference on Decision and Control.*
66. G. Schneider, K. B. Ariyur, M. Krstic, "Tuning of a combustion controller by extremum seeking: A simulation study," *Conf. on Decision and Control*, pp. 5219-5223, 2000.
67. K. B. Ariyur, A. Banaszuk, M. Krstic, "Identification of averaged dynamics of a controlled combustion instability," *Conf. on Decision and Control*, pp. 2017-2022, 2000.
68. D. Boskovic and M. Krstic, "Nonlinear stabilization of a thermal convection loop," *Conference on Decision and Control*, pp. 4777-4782, 2000.
69. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Control of Burn Instability in Fusion Reactors", *Proceedings of the 40th IEEE Conference on Decision and Control*, 2001.
70. D. Boskovic and M. Krstic, "Stabilization of a solid propellant rocket instability," *Conference on Decision and Control*, 2001.
71. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Burn Control in Fusion Reactors", *Proceedings of the 19th IEEE Symposium on Fusion Energy*, 2001.
72. A. Balogh and M. Krstic, "Infinite-Step Backstepping for a Heat Equation-Like PDE with Arbitrarily Many

- Unstable Eigenvalues," *2001 American Control Conference*.
73. O. M. Aamo, M. Krstic, and T. Bewley, " Fluid mixing by feedback in Poiseuille flow," *American Control Conference*, 2001.
 74. J.-Y. Choi, M. Krstic, K. B. Ariyur, J. S. Lee, "Stability of extremum seeking control for a class of discrete-time systems," *Proc. of the 2001 IEEE Conference on Decision and Control*, pp. 1717--1722, Orlando, FL, Dec. 2001.
 75. K. B. Ariyur and M. Krstic, "Analysis and design of multivariable extremum seeking," *Proc. of the 2002 American Control Conference*, pp. 2903--2853 Anchorage, AK, May 2002.
 76. P. Binetti, K. B. Ariyur, M. Krstic, F. Bernelli, "Control of formation flight via extremum seeking," *Proc. of the 2002 American Control Conference*, pp. 2848-2853, Anchorage, AK, May 2002.
 77. K. B. Ariyur, and M. Krstic, "Multivariable extremum seeking feedback: Analysis and design," *Proc. of the Mathematical Theory of Networks and Systems*, South Bend, IN, Aug. 2002.
 78. K. B. Ariyur, and M. Krstic, "Slope seeking in equilibrium maps of nonlinear systems," *Asian Control Conference*, Singapore, Sept. 2002.
 79. K. B. Ariyur and M. Krstic, "Slope seeking and application to compressor instability control," *2002 IEEE Conference on Decision and Control*, Las Vegas, NV Dec. 2002.
 80. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Burn Control in Fusion Reactors," *Proceedings of the 19th IEEE Symposium on Fusion Energy*, Atlantic City, NJ, USA, Jan. 2002.
 81. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Lyapunov-Based Burn Control in Fusion Reactors," *6th International Symposium on Fusion Nuclear Technology*, San Diego, CA, USA, 2002.
 82. E. Schuster, M. Krstic and G. Tynan, "Nonlinear Backstepping Control for the Fuel Diffusion Lag in Fusion Reactors," *15th IFAC World Congress on Automatic Control*, Barcelona, Spain, 2002.
 83. E. Schuster and M. Krstic, "Nonlinear Boundary Control of Non-Burning Plasma Kinetic Profiles in Cylindrical Geometry," *41st IEEE Conference on Decision and Control*, Las Vegas, NV, USA, Dec. 2002.
 84. D. M. Boskovic and M. Krstic, "Boundary control of chemical tubular reactors," *IFAC World Congress*, Barcelona, 2002.
 85. D. M. Boskovic, A. Balogh, and M. Krstic, "Boundary control of a class of unstable parabolic PDE's via backstepping," *IFAC World Congress*, Barcelona, 2002.
 86. O. M. Aamo, A. Balogh, and M. Krstic, "Optimal mixing by feedback in pipe flow," *IFAC World Congress*, Barcelona, 2002
 87. Y. Hu, O. Koroleva, and M. Krstic, "Control design for mine ventilation network systems," *IEEE Conference on Decision and Control*, 2002.
 88. A. Balogh and M. Krstic, "Stability of difference equations arising in infinite dimensional backstepping," *IEEE Conference on Decision and Control*, 2002.

89. E. Schuster, M. L. Walker, D. A. Humphreys, and M. Krstic, "Plasma vertical stabilization in the presence of coil voltage saturation in the DIII-D tokamak," *American Control Conference*, 2003.
90. A. Smyshlyaev and M. Krstic, "Regularity of hyperbolic PDEs governing backstepping gain kernels for parabolic PDEs," *American Control Conference*, 2003.
91. O. Koroleva and M. Krstic, "Nonlinear and adaptive decentralized controllers for fluid flow networks," *American Control Conference*, 2003.
92. C. L. Yuan, M. Krstic, and T. R. Bewley, "Control of mixing in 2D jet flow," *American Control Conference*, 2003.
93. O. M. Aamo and M. Krstic, "Backstepping design for a semi-discretized Ginzburg-Landau model of vortex shedding," *American Control Conference*, 2003.
94. M. Krstic and A. Banaszuk, "Multivariable adaptive control of instabilities arising in jet engines," *American Control Conference*, 2003.
95. O. M. Aamo, A. Smyshlyaev, and M. Krstic, "Stabilization of the Ginzburg-Landau equation by linear boundary control," *IEEE Conference on Decision and Control*, 2003.
96. E. Schuster and M. Krstic, "Inverse optimal boundary control for mixing in magnetohydrodynamic channel flow," *IEEE Conference on Decision and Control*, 2003.
97. E. Schuster, M. Krstic, M. L. Walker, and D. A. Humphreys, "Antiwindup scheme for plasma shape control with rate and magnitude actuation constraints in the DIII-D tokamak," *IEEE Conference on Decision and Control*, 2003.
98. A. Smyshlyaev and M. Krstic, "Output feedback boundary control by backstepping and application to chemical tubular reactor," *American Control Conference*, 2004.
99. O. Koroleva and M. Krstic, "Approximate solutions to nonlinear fluid networks with periodic inputs," *American Control Conference*, 2004.
100. M. Krstic, "Feedforward systems linearizable by coordinate change," *American Control Conference*, 2004.
101. M. Krstic, "Integrator forwarding control laws for some classes of linearizable feedforward systems," *American Control Conference*, 2004.
102. E. Schuster, M. Walker, M. Krstic, and D. Humphreys, "Toward the implementation of an anti-windup scheme for vertical and shape control in the DIII-D tokamak," *American Control Conference*, 2004.
103. A. Smyshlyaev and M. Krstic, "Closed form closed-loop solutions in PDE boundary control problems," *Mathematical Theory of Networks and Systems*, 2004.
104. M. Krstic, "Explicit control laws for some classes of feedforward systems," *IFAC Symposium on Nonlinear Control Systems*, 2004.
105. R. Vazquez and M. Krstic, "Volterra boundary control laws for a class of nonlinear parabolic partial differential equations," *IFAC Symposium on Nonlinear Control Systems*, 2004.

106. O. M. Aamo, A. Smyshlyaev, M. Krstic, and B. A. Foss, "Stabilization of a Ginzburg-Landau model of vortex shedding by output feedback boundary control," *IEEE Conference on Decision and Control*, 2005.
107. N. Killingsworth and M. Krstic, "Auto-tuning of PID controllers via extremum seeking," *American Control Conference*, 2005.
108. M. Krstic, "Inverse optimality and performance in forwarding," *American Control Conference*, 2005.
109. M. Krstic, "Explicit forwarding controllers—Beyond linearizable class," *American Control Conference*, 2005.
110. R. Vazquez and M. Krstic, "Thermal convection loop control by continuous backstepping and singular perturbations," *American Control Conference*, 2005.
111. A. Smyshlyaev and M. Krstic, "Backstepping boundary control for PDEs with non-constant diffusivity and reactivity," *American Control Conference*, 2005.
112. R. Vazquez and M. Krstic, "Explicit feedback control for a thermal convection loop," *Third MIT Conference on Computational Fluid and Solid Mechanics*, 2005.
113. M. Krstic, "Lyapunov adaptive stabilization of parabolic PDEs: Part I—A benchmark for boundary control," *IEEE Conference on Decision and Control*, 2005.
114. M. Krstic, "Lyapunov adaptive stabilization of parabolic PDEs: Part II—Output feedback and other benchmark problems," *IEEE Conference on Decision and Control*, 2005.
115. A. Smyshlyaev and M. Krstic, "Passive identifiers for boundary adaptive control of 3D reaction-advection-diffusion PDEs," *IEEE Conference on Decision and Control*, 2005.
116. A. Smyshlyaev and M. Krstic, "Output feedback adaptive controllers with swapping identifiers for two unstable PDEs with infinite relative degree," *IEEE Conference on Decision and Control*, 2005.
117. R. Vazquez and M. Krstic, "A closed form feedback controller for stabilization of linearized Navier-Stokes equations: The 2D Poiseuille flow," *IEEE Conference on Decision and Control*, 2005.
118. R. Vazquez and M. Krstic, "A closed form observer for the channel flow Navier-Stokes system," *IEEE Conference on Decision and Control*, 2005.
119. D. L. Flowers, J. Martinez-Frias, F. Espinosa-Loza, N. Killingsworth, S. M. Aceves, R. Dibble, M. Krstic, and A. Bining, "Development and testing of a 6-cylinder HCCI engine for distributed generation," *ASME Internal Combustion Engine Division Fall Technical Conference*, 2005.
120. M. Krstic, A. Smyshlyaev, and A. Siranosian, "Backstepping boundary controllers and observers for the slender Timoshenko beam: Part I—Design," *2006 American Control Conference*.
121. D. Jacquet, M. Krstic, and C. Canudas de Wit, "Optimal control of scalar one-dimensional conservation laws," *2006 American Control Conference*.
122. C. Zhang, A. Siranosian, and M. Krstic, "Extremum seeking for moderately unstable systems and for autonomous vehicle target tracking without position measurement," *2006 American Control Conference*.
123. R. Vazquez and M. Krstic, "Higher-order stability properties of a Navier-Stokes system with an explicit

- boundary controller," *2006 American Control Conference*.
124. J. Cochran, R. Vazquez, and M. Krstic, "Backstepping boundary control of Navier-Stokes channel flow: A 3D extension," *2006 American Control Conference*.
 125. E. Schuster, E. Morinaga, C. K. Allen, and M. Krstic, "Optimal beam matching in particle accelerators via extremum seeking," *2006 American Control Conference*.
 126. A. Smyshlyaev and M. Krstic, "Lyapunov adaptive boundary control for parabolic PDEs with spatially varying coefficients," *2006 American Control Conference*.
 127. M. Krstic, R. Vazquez, A. Siranosian, and M. Bement, "Sensing schemes for state estimation in turbulent flows and flexible structures," *Proceedings of SPIE, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems*, Paper Number: 6174-28, 2006.
 128. N. Killingsworth, S. Aceves, D. Flowers, and M. Krstic, "A simple HCCI engine model for control," *IEEE Conference on Control Applications*, 2006.
 129. M. Krstic and A. Balogh, "Backstepping boundary controller and observer for the undamped shear beam," *17th International Symposium on Mathematical Theory of Networks and Systems*, 2006.
 130. M. Krstic, J. Cochran, and R. Vazquez, "Decoupling and stabilizing Orr-Sommerfield and Squire systems by boundary control," *3rd AIAA Flow Control Conference*, 2006.
 131. R. Vasquez, E. Schuster, Miroslav Krstic, "A closed-form observer for the 3D inductionless Hartmann flow," *Proceedings of the Conference on Active Flow Control*, Berlin, Germany, 2006.
 132. M. Krstic, A. Siranosian, A. Smyshlyaev, and M. Bement, "Boundary control of flexible beams with the method of backstepping," *Proceedings of the 4th World Conference on Structural Control and Monitoring*, 2006.
 133. M. Krstic, A. Smyshlyaev, and R. Vazquez, "Boundary control of PDEs and applications to turbulent flows and flexible structures," *Proceedings of the 25th Chinese Control Conference*, Harbin, China, 2006.
 134. M. Krstic, A. Balogh, and A. Smyshlyaev, "Backstepping boundary controllers for tip-force induced instabilities arising in AFM," *IEEE Conference on Decision and Control*, 2006.
 135. M. Krstic, "Systematization of approaches to adaptive boundary stabilization of PDEs," *IEEE Conference on Decision and Control*, 2006.
 136. J. Cochran, R. Vazquez, and M. Krstic, "Backstepping boundary control of Navier-Stokes channel flow: Explicit gain formulae in 3D," *IEEE Conference on Decision and Control*, 2006.
 137. M. Krstic, A. Siranosian, A. Smyshlyaev, and M. Bement, "Backstepping boundary controllers and observers for the slender Timoshenko beam: Part II – Stability and simulations," *IEEE Conference on Decision and Control*, 2006.
 138. R. Vazquez, E. Schuster, and M. Krstic, "A closed-form observer for the 3D inductionless MHD and Navier-Stokes channel flow," *IEEE Conference on Decision and Control*, 2006.

139. Y. V. Orlov, M. Krstic, and A. Smyshlyaev, "Adaptive identification of linear unstable parabolic systems with boundary sensing and actuation: A case study," *IEEE Conference on Decision and Control*, 2006.
140. C. Zhang, D. Arnold, N. Ghods, A. Siranosian, and M. Krstic, "Source seeking with nonholonomic unicycle without position measurement – Part I: Tuning of forward velocity," *IEEE Conference on Decision and Control*, 2006.
141. A. Smyshlyaev and M. Krstic, "Output-feedback adaptive control for parabolic PDEs with spatially varying coefficients," *IEEE Conference on Decision and Control*, 2006.
142. M. Krstic and M. Bement, "Non-overshooting control of strict-feedback nonlinear systems," *2007 American Control Conference*.
143. N. Killingsworth, D. Flowers, S. Aceves, and M. Krstic, "Extremum seeking tuning of an experimental HCCI engine combustion timing controller," *2007 American Control Conference*.
144. R. Vazquez and M. Krstic, "Explicit output feedback stabilization of a thermal convection loop by continuous backstepping and singular perturbations," *2007 American Control Conference*.
145. C. Xu, E. Schuster, R. Vazquez, and M. Krstic, "Stabilization of linearized 2D magnetohydrodynamic channel flow by backstepping boundary control," *2007 American Control Conference*.
146. M. Krstic, B.-Z. Guo, A. Balogh, and A. Smyshlyaev, "Observer based boundary control of an unstable wave equation," *2007 American Control Conference*.
147. M. Krstic and A. Smyshlyaev, "Backstepping boundary control - A tutorial," *2007 American Control Conference*.
148. R. Vazquez, J. Cochran, O. M. Aamo, and M. Krstic, "Control of channel flow turbulence, vortex shedding, and thermal convection by backstepping boundary control," *2007 American Control Conference*.
149. M. Krstic, A. Siranosian, A. Balogh, and B.-Z. Guo, "Control of strings and flexible beams by backstepping boundary control," *2007 American Control Conference*.
150. A. Smyshlyaev and M. Krstic, "Adaptive control of PDEs with uncertain and spatially variable parameters," *2007 American Control Conference*.
151. R. Vazquez and M. Krstic, "Boundary control of nonlinear PDEs by Volterra feedback linearization," *2007 European Control Conference*.
152. R. Vazquez, E. Schuster, and M. Krstic, "A closed-form feedback controller for stabilization of magnetohydrodynamics channel flow," *2007 European Control Conference*.
153. R. Vazquez, E. Schuster, and M. Krstic, "Backstepping boundary control of magnetohydrodynamic channel flow," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
154. R. Vazquez and M. Krstic, "Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part I: Design," *7th IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
155. R. Vazquez and M. Krstic, "Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part

- II: Examples,” 7th *IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
156. R. Vazquez and M. Krstic, “Boundary Control Laws for Parabolic PDEs with Volterra Nonlinearities - Part III: Analysis,” 7th *IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
157. J. Cochran, A. Siranosian, N. Ghods, D. Arnold, and M. Krstic, “GPS-denied source seeking for a nonholonomic unicycle via heading control,” 7th *IFAC Symposium on Nonlinear Control Systems*, Pretoria, South Africa, 2007.
158. M. Krstic and A. Smyshlyaev, “Adaptive control of PDEs,” 9th *IFAC Workshop on Adaptation and Learning in Adaptive Control and Signal Processing*, St. Petersburg, Russia, 2007.
159. A. A. Siranosian, M. Krstic, and M. Bement, “Generation and tracking of sinusoids for shake table control via extremum seeking,” *Proceedings of ASME International Mechanical Engineering Congress and Exposition*, 2007.
160. M. Krstic and A. Smyshlyaev, “Backstepping boundary control for first order hyperbolic PDEs and application to systems with actuator and sensor delays,” *IEEE Conference on Decision and Control*, 2007.
161. M. Krstic, A. Smyshlyaev, and B.-Z. Guo, “Backstepping boundary control for Schrodinger equation and Euler-Bernoulli beam,” *IEEE Conference on Decision and Control*, 2007.
162. C. Manzie and M. Krstic, “Discrete time extremum seeking using stochastic perturbations,” *IEEE Conference on Decision and Control*, 2007.
163. J. Cochran and M. Krstic, “Source seeking with nonholonomic unicycle without position measurements and with tuning of angular velocity – Part I: Stability analysis,” *IEEE Conference on Decision and Control*, 2007.
164. J. Cochran, A. Siranosian, N. Ghods, and M. Krstic, “Source seeking with nonholonomic unicycle without position measurements and with tuning of angular velocity – Part II: Applications,” *IEEE Conference on Decision and Control*, 2007.
165. M. Krstic and J. Cochran, “Contaminant tracking in GPS-denied environments,” *Proceedings of the 2008 Engineering Research and Innovation Conference*, Knoxville, TN.
166. J. Cochran, A. Siranosian, N. Ghods, and M. Krstic, “GPS denied source seeking for underactuated autonomous vehicles in 3D,” *IEEE International Conference on Robotics and Automation*, 2008.
167. J. Cochran, M. Krstic, “3D nonholonomic source seeking without position measurement,” *American Control Conference*, 2008.
168. A. Siranosian, M. Krstic, A. Smyshlyaev, and M. Bement, “Motion planning and tracking for tip displacement and deflection angle for flexible beams,” *American Control Conference* 2008.
169. S. Bolognani, A. Smyshlyaev, and M. Krstic, “Adaptive output feedback control for complex-valued reaction-advection-diffusion systems,” *American Control Conference* 2008.
170. M. Krstic, L. Magnis, and R. Vazquez, “Nonlinear control of the Burgers PDE - Part I: Full-state stabilization,” *American Control Conference*, 2008

171. M. Krstic, L. Magnis, R. Vazquez, "Nonlinear control of the Burgers PDE - Part II: Observer design, trajectory generation, and tracking," *American Control Conference*, 2008.
172. M. Krstic, "Lyapunov tools for predictor feedbacks for delay systems: Inverse optimality and robustness to delay mismatch," *American Control Conference* 2008.
173. M. Krstic, "On compensating long actuator delays in nonlinear control," *American Control Conference* 2008.
174. M. Krstic and J. Cochran, "Extremum seeking for motion optimization: From bacteria to nonholonomic vehicles," *Chinese Control and Decision Conference*, 2008.
175. M. Krstic, A. Smyshlyaev, and R. Vazquez, "Infinite-dimensional backstepping and applications to flows in electromagnetic fields," *Mediterranean Control Conference*, 2008.
176. M. Krstic, "Actuation delay compensation in nonlinear control," *Mathematical Theory of Networks and Systems*, 2008.
177. A. Smyshlyaev, B. Guo, and M. Krstic, "Boundary controllers for Euler-Bernoulli beam with arbitrary decay rate," *IEEE Conference on Decision and Control*, 2008.
178. D. Flowers, N. Killingsworth, F. Espinoza-Loza, J. Martinez-Frias, S. Aceves, M. Krstic, R. Dibble, "Demonstrating optimum HCCI combustion with advanced control technology," SAE technical paper number 08FFL-0044, *Powertrains, Fuels and Lubricants Meeting*, 2008.
179. M. Krstic, "Adaptive control of an unstable wave PDE," *2009 American Control Conference*.
180. M. Krstic, "Inverse optimal adaptive control – the interplay between update laws, control laws, and Lyapunov functions," *2009 American Control Conference*.
181. M. Krstic and D. Bresch-Pietri, "Delay-adaptive full-state predictor feedback for systems with unknown long actuator delay," *2009 American Control Conference*.
182. D. Bresch-Pietri and M. Krstic, "Adaptive tracking controller for systems with unknown long delay and unknown parameters in the plant," *2009 American Control Conference*.
183. M. Krstic, "Compensating a string PDE in the actuation or sensing path of an unstable ODE," *2009 American Control Conference*.
184. J. Cochran, E. Kanso, and M. Krstic, "Source seeking for a three-link model of fish locomotion," *2009 American Control Conference*.
185. J. Cochran, S. Kelly, H. Xiong, and M. Krstic, "Source seeking for a Joukowski foil model of fish locomotion," *2009 American Control Conference*.
186. N. Ghods and M. Krstic, "Extremum seeking with very slow or drifting sensors," *2009 American Control Conference*.
187. P. Frihauf and M. Krstic, "Rapidly convergent leader-enabled multi-agent deployment into planar curves," *2009 American Control Conference*.
188. M. Krstic, "Predictor-like feedback for actuator and sensor dynamics governed by diffusion PDEs," *2009 American Control Conference*.

American Control Conference.

189. A. Smyshlyaev and M. Krstic, "Boundary control of an anti-stable wave equation with anti-damping on the uncontrolled boundary," *2009 American Control Conference*.
190. A. Siranosian, M. Krstic, A. Smyshlyaev, M. Bement, "Gain scheduling-inspired control for nonlinear partial differential equations," *2nd Annual ASME Dynamic Systems and Control Conference*, 2009.
191. M. Krstic and D. Bresch-Pietri, "Delay-robustness and adaptivity of predictor feedback without actuator state measurement," *IFAC Workshop on Control of Distributed Parameter Systems*, 2009.
192. M. Krstic, J. Doblack, J. Toubi, A. Veksler, H. Basturk, "Optimization of wave-induced motion of ramp-interconnected craft for cargo transfer," *Grand Challenges Conference in Modeling and Simulation*, 2009.
193. N. Bekiaris-Liberis and M. Krstic, "On stabilizing strict-feedback linear systems with delayed integrators," *17th Mediterranean Conference on Control and Automation*, 2009.
194. M. Krstic, "Lyapunov stability of linear predictor feedback for time-varying input delay," *IEEE Conference on Decision and Control*, 2009.
195. M. Krstic, "Control of an unstable reaction-diffusion PDE with long input delay," *IEEE Conference on Decision and Control*, 2009.
196. M. Krstic, "Dead-time compensation for wave/string PDEs," *IEEE Conference on Decision and Control*, 2009.
197. M. Krstic, "Nonlinear stabilization through long input delay---Part I: Forward complete systems," *IEEE Conference on Decision and Control*, 2009.
198. M. Krstic, "Nonlinear stabilization through long input delay---Part II: The strict-feedforward class," *IEEE Conference on Decision and Control*, 2009.
199. M. Krstic, "Nonlinear stabilization through long input delay - Part III: Linearizable strict-feedforward systems," *IEEE Conference on Decision and Control*, 2009.
200. S. Liu and M. Krstic, "Stochastic averaging on infinite time interval for a class of nonlinear systems with stochastic perturbation," *IEEE Conference on Decision and Control*, 2009.
201. A. Smyshlyaev, E. Cerpa, and M. Krstic, "Boundary stabilization of an anti-stable wave equation with in-domain anti-damping," *IEEE Conference on Decision and Control*, 2009.
202. N. Ghods, M. Krstic, "Multi-agent deployment around a source in one dimension by extremum seeking," *2010 American Control Conference*.
203. N. Bekiaris-Liberis, M. Krstic, "Delay-adaptive feedback for linear feedforward systems," *2010 American Control Conference*.
204. N. Bekiaris-Liberis, M. Krstic, "Stabilization of linear strict-feedback systems with delayed integrators," *2010 American Control Conference*.
205. S.-J. Liu, M. Krstic, "Stochastic averaging in continuous time and its applications to extremum

- seeking," *2010 American Control Conference*.
206. P. Frihauf, M. Krstic, "Multi-agent deployment to a family of planar arcs," *2010 American Control Conference*.
 207. A. Pyrkin, A. Smyshlyaev, N. Bekiaris-Liberis, M. Krstic, "Rejection of sinusoidal disturbance of unknown frequency for linear system with input delay," *2010 American Control Conference*.
 208. A. Pyrkin, A. Smyshlyaev, N. Bekiaris-Liberis, M. Krstic, "Output control algorithm for unstable plant with input delay and cancellation of unknown biased harmonic disturbance," *IFAC Workshop on Time Delay Systems*, 2010.
 209. P. Frihauf, M. Krstic, T. Basar, "Nash equilibrium seeking for dynamic systems with non-quadratic payoffs," *The 14th International Symposium on Dynamic Games and Applications*, 2010.
 210. T. Meurer and M. Krstic, "Nonlinear PDE-based motion planning for the formation control of mobile agents," *8th IFAC Symposium on Nonlinear Control Systems*, 2010.
 211. M. Krstic, P. Frihauf, J. Krieger, and T. Basar, "Nash equilibrium seeking with finitely and infinitely many players," *8th IFAC Symposium on Nonlinear Control Systems*, 2010.
 212. N. Ghods and M. Krstic, "Source seeking for nonholonomic unicycle with speed regulation," *ASME Dynamic Systems and Control Conference*, 2010.
 213. N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of a wave PDE in the actuation or sensing path of multi-input and multi-output LTI Systems," *ASME Dynamic Systems and Control Conference*, 2010.
 214. S.-J. Liu and M. Krstic, "Stochastic nonholonomic source seeking," *IEEE Conference on Decision and Control*, 2010.
 215. N. Bekiaris-Liberis and M. Krstic, "Lyapunov stability of linear predictor feedback for distributed input delays," *IEEE Conference on Decision and Control*, 2010.
 216. N. Bekiaris-Liberis and M. Krstic, "Compensating the distributed effect of counter-convection and diffusion in multi-input and multi-output LTI systems," *IEEE Conference on Decision and Control*, 2010.
 217. N. Ghods and M. Krstic, "Multi-agent deployment in the plane using stochastic extremum seeking," *IEEE Conference on Decision and Control*, 2010.
 218. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking for games with non-quadratic payoffs," *IEEE Conference on Decision and Control*, 2010.
 219. J. Doblack, H. Basturk, A. Chakirov, and M. Krstic "Air cushion active control for the reduction of wave induced motion of ramp-connected ships," *Grand Challenges Conference in Modeling and Simulation*, Ottawa, Canada, 2010.
 220. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking with infinitely many players," *American Control Conference*, 2011.

221. J.-M. Wang and M. Krstic, "On the stability of an interconnected system of Euler-Bernoulli beam and heat equation via boundary coupling," *American Control Conference*, 2011.
222. A. Smyshlyaev, N. Chaturvedi, and M. Krstic, "PDE model for thermal dynamics of a large Li-ion battery pack," *American Control Conference*, 2011.
223. A. A. Paranjape, S.-J. Chung, and M. Krstic, "PDE boundary control for flexible articulated aircraft wings," AIAA paper 2011-6486, *AIAA Guidance, Navigation, and Control Conference*, Portland, Oregon, 2011.
224. P. Frihauf, M. Krstic, and T. Basar, "Nash equilibrium seeking for dynamic systems with non-quadratic payoffs," *18th IFAC World Congress*, 2011.
225. S.-J. Liu and M. Krstic, "Stochastic Nash equilibrium seeking for games with general nonlinear payoffs," *18th IFAC World Congress*, 2011.
226. J.-M. Wang, B.-Z. Guo, and M. Krstic, "Stabilization of one-dimensional wave equation by delayed output feedback," *18th IFAC World Congress*, 2011.
227. N. Bekiaris-Liberis and M. Krstic, "Compensation of time-varying input delay for nonlinear systems," *19th Mediterranean Conference on Control and Automation*, 2011.
228. J.-M. Wang, B. Ren, and M. Krstic, "Stabilization of coupled Schrodinger and heat equations with boundary coupling," *Chinese Control Conference*, 2011.
229. H. I. Basturk, J. Doblack, and M. Krstic, "Air cushion adaptive disturbance cancellation for the reduction of wave induced motion of ramp-connected ships," *11th International Conference on Fast Sea Transportation*, 2011.
230. H. I. Basturk and M. Krstic, "Adaptive cancellation of matched unknown sinusoidal disturbances for LTI systems by state derivative feedback," *2011 ASME Dynamics and Control Conference*.
231. B. Ren, P. Frihauf, M. Krstic, and R. J. Rafac, "Laser pulse shaping via iterative learning control and infinite-dimensional extremum seeking," *2011 ASME Dynamics and Control Conference*.
232. N. Bekiaris-Liberis and M. Krstic, "Stabilization of nonlinear strict-feedback systems with time-varying delayed integrators," *2011 ASME Dynamics and Control Conference*.
233. R. Vazquez, J.-M. Coron, and M. Krstic, "Backstepping boundary stabilization and state estimation of a 2 X 2 linear hyperbolic system," *IEEE Conference on Decision and Control*, 2011.
234. R. Vazquez, J.-M. Coron, M. Krstic, and G. Bastin, "Local exponential H2 stabilization of a 2 X 2 quasilinear hyperbolic system using backstepping," *IEEE Conference on Decision and Control*, 2011.
235. I. Karafyllis and M. Krstic, "Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold," *IEEE Conference on Decision and Control*, 2011.
236. N. Bekiaris-Liberis and M. Krstic, "Compensation of state-dependent input delay for nonlinear systems," *IEEE Conference on Decision and Control*, 2011.
237. Azad Ghaffari, M. Krstic, and D. Nesic, "Multivariable Newton-based extremum seeking," *IEEE Conference*

on Decision and Control, 2011.

238. A. A. Ahmadi, M. Krstic, and P. Parrilo, "A globally asymptotically stable polynomial vector field with no polynomial Lyapunov function," *IEEE Conference on Decision and Control*, 2011.
239. R. Vazquez, J.-M. Coron, M. Krstic, G. Bastin, "Collocated Output-Feedback Stabilization of a 2x2 Quasilinear Hyperbolic System using Backstepping," *American Control Conference*, 2012.
240. D. Tsubakino, M. Krstic, S. Hara, "Backstepping Control for Parabolic PDEs with In-Domain Actuation," *American Control Conference*, 2012.
241. N. Bekiaris-Liberis, M. Jankovic, M. Krstic, "Compensation of State-Dependent State Delay for Nonlinear Systems," *American Control Conference*, 2012.
242. F. Mazenc, S.-I. Niculescu, M. Krstic, "Some remarks on Lyapunov-Krasovskii Functionals and Reduction Approach for Input Delay Compensation," *American Control Conference*, 2012.
243. Halil I. Basturk, M. Krstic, "Adaptive Cancellation of Matched Unknown Sinusoidal Disturbances for Unknown LTI Systems by State Derivative Feedback," *American Control Conference*, 2012.
244. A. Scheinker, M. Krstic, "A Universal Extremum Seeking-based Stabilizer for Unknown LTV Systems with Unknown Control Directions," *American Control Conference*, 2012.
245. A. Ghaffari, S. Seshagiri, M. Krstic, "Power Optimization for Photovoltaic Micro-Converters using Multivariable Gradient-Based Extremum-Seeking," *American Control Conference*, 2012.
246. N. Bekiaris-Liberis, M. Krstic, "Compensation of State-Dependent Delays under Local Stabilizability Assumption," *American Control Conference*, 2012.
247. B. Ren, J.-M. Wang, M. Krstic, "Stabilization of an ODE-Schrodinger Cascade," *American Control Conference*, 2012.
248. F. Di Meglio, M. Krstic, R. Vazquez, N. Petit, "Backstepping stabilization of an underactuated 3x3 linear hyperbolic system of fluid flow transport equations," *American Control Conference*, 2012.
249. S. Moura, N. A. Chaturvedi, M. Krstic, "PDE Estimation Techniques for Advanced Battery Management Systems - Part I: SOC Estimation," *American Control Conference*, 2012.
250. S. Moura, N. A. Chaturvedi, M. Krstic, "PDE Estimation Techniques for Advanced Battery Management Systems - Part II: SOH Identification," *American Control Conference*, 2012.
251. A. Ghaffari, S. Seshagiri, M. Krstic, "High-fidelity photovoltaic array modeling for advanced MPPT design," *2012 IEEE Canadian Conference on Electrical and Computer Engineering*.
252. A. Ghaffari, S. Seshagiri, M. Krstic, "High-fidelity DC-DC converter modeling for advanced MPPT design," *2012 IEEE Canadian Conference on Electrical and Computer Engineering*.
253. S.-J. Liu, P. Frihauf, and M. Krstic, "Stochastic source seeking with tuning of forward velocity," *2012 Chinese Control Conference*.
254. H. I. Basturk and M. Krstic, "Adaptive backstepping cancellation of unmatched unknown sinusoidal

- disturbances for LTI systems by state derivative feedback," *2012 ASME Dynamic Systems and Control Conference*.
255. P. Frihauf, S.-J. Liu, and M. Krstic, "Stochastic source seeking with multiple nonholonomic vehicles via a single forward-velocity control signal," *2012 ASME Dynamic Systems and Control Conference*.
256. S. Moura, N. A. Chaturvedi, and M. Krstic, "Adaptive PDE observer for battery SOC/SOH estimation," *2012 ASME Dynamic Systems and Control Conference*.
257. H. I. Basturk and M. Krstic, "Adaptive Backstepping Cancellation of Unmatched Unknown Sinusoidal Disturbances for Unknown LTI Systems by State Derivative Feedback," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
258. A. Scheinker and M. Krstic, "Extremum Seeking-based Tracking for Unknown Systems with Unknown Control Directions," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
259. S.-J. Liu and M. Krstic, "Newton-Based Stochastic Extremum Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
260. F. Di Meglio, R. Vazquez, and M. Krstic, "Stabilization of a linear hyperbolic system with one boundary controlled transport PDE coupled with n counterconvecting PDEs," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
261. A. Ghaffari, M. Krstic, and S. Seshagiri, "Power Optimization for Photovoltaic Micro-Converters using Multivariable Newton-Based Extremum-Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
262. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "PDE-Based Analysis and Control of the Oxygen Storage Level in Three-Way Catalytic Converters," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
263. N. Bekiaris-Liberis, M. Jankovic, and M. Krstic, "Adaptive Stabilization of LTI Systems with Distributed Input Delay," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
264. P. Wolf, S. Moura, and M. Krstic, "Optimal Sensor Placement for Spatio-temporal Temperature Estimation in Large Battery Packs," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
265. A. Paranjape, J. Guan, S.-J. Chung, and M. Krstic, "PDE Boundary Control for Euler-Bernoulli Beam Using a Two Stage Perturbation Observer," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
266. P. Frihauf, M. Krstic, and T. Basar, "Finite-Horizon LQ Control for Unknown Discrete-Time Systems via Extremum Seeking," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
267. M. Krstic and N. Bekiaris-Liberis, "Control of Nonlinear Delay Systems," *Proceedings of the 2012 IEEE Conference on Decision and Control*.
268. D. Ryan, H. Choi, and M. Krstic, "A Simulink nuclear power plant simulator for EM²," *2012 American Nuclear Society Winter Meeting and Nuclear Technology Expo*.

269. Q.-C. Zhong, W.-L. Ming, X. Cao, and M. Krstic, "Reduction of DC-bus voltage ripples and capacitors for single-phase PWM-controlled rectifiers," *IEEE Industrial Electronics Conference (IECON)*, Montreal, 2012.
270. C. Sagert, F. Di Meglio, M. Krstic, P. Rouchon, "Backstepping and flatness approaches for stabilization of the stick-slip phenomenon for drilling," *IFAC Symposium on System Structure and Control*, Grenoble, France, 2013.
271. Q.-C. Zhong, W.-L. Ming and M. Krstic, "A single-phase to three-phase power conversion system with reduced switches and improved output voltages," *2013 IEEE Fifth Annual Green Technologies Conference*.
272. Q.-C. Zhong, W.-L. Ming and M. Krstic, "Improving the power quality of traction power systems with a single-feeding wire," *2013 IEEE Fifth Annual Green Technologies Conference*.
273. A. Ghaffari, M. Krstic, and S. Seshagiri, "Power optimization and control in wind energy conversion systems using extremum seeking," *American Control Conference*, 2013.
274. S. Tang and M. Krstic, "Stabilization of linearized Korteweg-de Vries systems with anti-diffusion," *American Control Conference*, 2013.
275. B. Ren and M. Krstic, "Region tracking control for multi-agent systems with high-order dynamics," *American Control Conference*, 2013.
276. S. Moura, N. A. Chaturvedi, and M. Krstic, "Constraint management in Li-ion batteries: A modified reference governor approach," *American Control Conference*, 2013.
277. N. Bekiaris-Liberis and M. Krstic, "Robustness to time- and state-dependent delay perturbations in networked nonlinear control systems," *American Control Conference*, 2013.
278. F. Di Meglio, R. Vazquez, M. Krstic, "A backstepping boundary observer for a class of linear first-order hyperbolic systems," *European Control Conference*, 2013.
279. S.-J. Liu and M. Krstic, "Stochastic averaging in discrete time," *Chinese Control Conference*, 2013.
280. N. Bekiaris-Liberis and M. Krstic, "Stabilization in the supremum norm of wave PDE/nonlinear ODE cascades," *Mediterranean Control Conference*, 2013.
281. R. Vazquez and M. Krstic, "Marcum Q-functions and explicit feedback laws for stabilization of constant coefficient 2 X 2 linear hyperbolic systems," *2013 IEEE Conference on Decision and Control*.
282. N. Bekiaris-Liberis and M. Krstic, "Nonlinear control under input delays that depend on delayed states," *2013 IEEE Conference on Decision and Control*.
283. N. Bekiaris-Liberis and M. Krstic, "Oil drilling inspired compensation of wave actuator dynamics for nonlinear systems," *2013 IEEE Conference on Decision and Control*.
284. J. D. Bendtsen and M. Krstic, "Control of thermodynamical system with input-dependent state delays," *2013 IEEE Conference on Decision and Control*.
285. D. Tsubakino, M. Krstic, and Y. Yamashita, "Boundary control of a cascade of two parabolic PDEs with different diffusion coefficients," *2013 IEEE Conference on Decision and Control*.

	<p>286. A. Sezgin and M. Krstic, "Backstepping control of an aeroelastic system with large Mach numbers," 2013 <i>IEEE Conference on Decision and Control</i>.</p> <p>287. G. Mills and M. Krstic, "Gradient based projection method for constrained optimization," 2013 <i>IEEE Conference on Decision and Control</i>.</p>
<p>РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ</p>	<p>Мирослав Крстић је 1994. године одбранио докторат на Универзитету Санта Барбара у САД и на овом универзитету период од 1995. до 1997. године проводи као асистент-професор на Одсеку за механику Универзитета у Мериленду. 1997. године се запошљава на Универзитету у Сан Дијегу (<i>University of California, San Diego</i>) у звању ванредног професора, а 2000. године је биран у звање редовног професора. 2005. године постаје директор Центра за управљање системима и динамику (<i>Cymer Center for Control Systems and Dynamics</i>). Тренутно обавља функцију проректора за истраживање на Универзитету Сан Дијего. У својој досадашњој каријери је био позиван са угледних универзитета да одређени период proved као гостујући професор (<i>UC Berkeley, Universite Diderot-Paris 6, University of Sheffield</i>). Обављао је велики број административних функција на Универзитету у Сан Дијегу.</p> <p>Добитник је престижних награда и носилац почасних функција (<i>Fellow of IFAC, Fellow of IEEE, Presidential Early Career Award for Scientists and Engineers, Office of Naval Research Young Investigator Award, National Science Foundation Career Award, Distinguished Visiting Professor Award, Royal Academy of Engineering, United Kingdom, Russell Severance Springer Distinguished Visiting Professor, UC Berkeley, UCSD Diversity Award, UCSD Award for Research (1st from Engineering in 16 years; 2004 winner Roger Tsien, Nobel Prize in Chemistry), George S. Axelby Outstanding Paper Award, IEEE Trans. Automatic Control, O. Hugo Schuck Best Paper Award, American Automatic Control Council, ...</i>). Одржао је велики број предавања по позиву на угледним универзитетима у свету.</p> <p>Наставу држи из предмета Сигнали и системи, Линеарно управљање, Робусно и мултиваријабилно управљање, Управљање системима са расподељеним параметрима, Нелинеарни системи и Нелинеарно управљање. Руководио је израдом 15 докторских дисертација и на постдокторским студијама је имао шеснаест кандидата, аутор је или коаутор девет уџбеника, његови научни радови из области нелинеарног управљања, управљања системима са дистрибуираним параметрима и системима са кашњењем су високо цитирани. Има два патента.</p>
<p>ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА</p>	<p>У овом делу није наведена цитираност свих библиографских јединица, али је Комисија стекла увид у изузетно високу цитираност уџбеника и научних радова др Мирослава Крстића. Примера ради, монографија <i>Nonlinear and Adaptive Control (Krstic, Kanellakopoulos and Kokotovic)</i> је цитирана 5579 пута, монографија <i>Real Time Optimization by Extremum Seeking Control (Ariyur and Krstic)</i> 421 пут, а монографија <i>Stabilization of Nonlinear Uncertain Systems (Krstic and Deng)</i> 396 пута. И радови у међународним часописима имају високу цитираност. Тако је, на пример, рад под редним бројем [73] цитиран 165 пута а</p>

		под редним броје [26] 163 пута.
МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	<ul style="list-style-type: none"> • Guest Editor, special issue «Robust Adaptive Control: Legacies and Horizons,» <i>International Journal of Adaptive Control and Signal Processing</i>, 2013. • Guest Editor, special issue dedicated to Professor Hassan Khalil, <i>Dynamics of Continuous, Discrete, and Impulsive Systems</i>, vol. 17, 2010.
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	<ul style="list-style-type: none"> • Program Chair, ASME Dynamic Systems and Control Conference, 2013 • General Co-Chair, 20th International Conference on Magnetically Levitated Systems and Linear Drives, 2008.
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	<ul style="list-style-type: none"> • Senior Editor in IEEE Transactions on Automatic Control • Automatica, Editor for Adaptive and Distributed Parameter Systems, 2005- • ESAIM: Control, Optimisation, and Calculus of Variations, Associate Editor, 2009- • IEEE Transactions on Automatic Control, Associate Editor, 1997-2000 • Int. J. Applied Mathematics and Computer Science, Editorial Board member, 2008- • Int. J. of Differential Equations, Editorial Board member, 2008- • Int. J. Adaptive Control and Signal Processing, Associate Editor, 1995- 2011 • Systems & Control Letters, Associate Editor, 1998-2003 • J. Dynamics of Continuous, Discrete, and Impulsive Systems, Associate Editor, 2000-2006
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	<ol style="list-style-type: none"> 1. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, <i>Nonlinear and Adaptive Control Design</i>, Wiley, 1995. [Book Review] 2. M. Krstic and H. Deng, <i>Stabilization of Nonlinear Uncertain Systems</i>, Springer, 1998. 3. O. M. Aamo and M. Krstic, <i>Flow Control by Feedback</i>, Springer, 2002. [Book Review] 4. K. Ariyur and M. Krstic, <i>Real Time Optimization by Extremum Seeking Control</i>, Wiley, 2003. [Book Review] 5. M. Krstic and A. Smyshlyaev, <i>Boundary Control of PDEs: A Course on Backstepping Designs</i>, SIAM, 2008. [Book Review] 6. R. Vazquez and M. Krstic, <i>Control of Turbulent and Magnetohydrodynamic Channel Flows</i>, Birkhauser, 2007. 7. M. Krstic, <i>Delay Compensation for Nonlinear, Adaptive, and PDE Systems</i>, Birkhauser, 2009. 8. A. Smyshlyaev and M. Krstic, <i>Adaptive Control of Parabolic PDEs</i>, Princeton University Press, 2010. 9. S.-J. Liu and M. Krstic, <i>Stochastic Averaging and Stochastic Extremum Seeking</i>, Springer, 2012.

		<p>Мирослав Крстић је аутор појединих поглавља у још 22 међународне монографије.</p>
<p>НАПОМЕНА</p>		<p>Мишљење Комисије на Електротехничком факултету у Београду</p> <p>Из изложеног се види да кандидат, др Мирослав Крстић, редовни професор на Универзитету Сан Дијео (<i>University of California San Diego</i>), Сједињене Америчке Државе, испуњава све услове Закона о високом образовању (члан 66) и Статута Електротехничког факултета, Универзитета у Београду, (чланови 17 и 102), за избор у звање гостујући професор.</p> <p>Др Мирослав Крстић има докторат наука, 9 међународних монографија, 183 рада објављена у међународним часописима, преко 280 рада на међународним научним скуповима, велики број предавања по позиву и два патента. Последњих година др Мирослав Крстић успоставља значајну сарадњу са Катедром за сигнале и системе Електротехничког факултета, држећи кратке курсеве студентима докторских студија и организујући студијске боравке за студенте докторских студија на Универзитету у Сан Дијеу.</p> <p>Полазећи од анализе целокупне наставне и научноистраживачке активности др Мирослава Крстића, обима и квалитета његовог рада, а посебно научног рада из области дефицитарних на Електротехничком факултету, те његовог ангажовања да их пренесе студентима и колегама у Србији, предлагемо Изборном већу Електротехничког факултета, Универзитета у Београду, да га изабере у звање гостујући професор.</p>