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Naučna zvanja:

Foreign Member at the Serbian Academy of Sciences and Arts, Elected 2015.
Member at the Academia Europaea, the Academy of Europe, Elected Oct. 2015.
Laura H. Carnell Professor of Data Analytics, Temple University, Elected 2013.
Director 2000 - Present.
Data Analytics and Biomedical Informatics Center, *Temple University*, Philadelphia, PA.
Professor (tenured) 2000 - Present.
Computer and Information Sciences Department, *Temple University*, Philadelphia, PA.
Professor (secondary appointment) 2013 - Present.
Statistical Science Department, Fox School of Business, *Temple University*, Philadelphia, PA.
Adjunct Professor, 2015 – Present.
School of Medicine, *University of Belgrade*, Belgrade, Serbia.
Adjunct Professor, 2009 – 2010.
Faculty of Organizational Sciences, *University of Belgrade*, Belgrade, Serbia.
Adjunct Research Professor, 1999 - Present (Adjunct Scientist, 1986 - 1999)
The Mathematical Institute, *Serbian Academy of Sciences and Arts*, Belgrade, Serbia.
Associate Director 2003 - 2004.
Center for Quantitative Biology and Biomedical Mathematics, *Temple University*, Philadelphia, PA.
Associate Professor (tenured) 1997 - 2000. (Assistant Professor, 1991 - 1997)
School of Electrical Engineering and Computer Science, *Washington State Univ.*, Pullman, WA.
Guest Scientist, Fall-Winter 1998.
Information and Communications Department, Corporate Research and Development, *Siemens AG*,
Munich, Germany.

1. Veći broj naučnih radova objavljenih u vodećim međunarodnim časopisima

Bioinformatics Journal Articles:

1. Gligorijevic, J., Gligorijevic, Dj., Pavlovski, M., Milkovitz, E., Glass, L., Grier, K., Vankireddy, P., Obradovic, Z. (2019) "Optimizing Clinical Trials Recruitment via Deep Learning" *Journal of the American Medical Informatics Association*, June 12, 2019, pii: pcz064.
2. Ljubic, B., Gligorijevic, Dj., Gligorijevic, J., Pavlovski, M., Obradovic, Z. (2019) "Social Network Analysis for Better Understanding of Influenza," *Journal of Biomedical Informatics*. Vol. 93, May 2019, 103161.
3. Albarakati, N., Obradovic, Z. (2018) "Multi-Domain and Multi-View Networks Model for Clustering Hospital Admissions from the Emergency Department," *International Journal of Data Science and Analytics*, pp. 1-19, Aug. 07, 2018, Doi: 10.1007/s41060-018-0147-5.
4. Siddiqui, S. A., Zhang, Y., Lloret, J., Song, H., Obradovic, Z. (2018) "Pain-Free Blood Glucose Monitoring using Wearable Sensors: Recent Advancements and Future Prospects," *IEEE Reviews in Biomedical Engineering*, Dec. 2018, vol 11, No. 1, pp. 21-35. Doi: [10.1109/RBME.2018.2822301](https://doi.org/10.1109/RBME.2018.2822301)
5. Reljin I., Obradovic Z., Popovic M.B., Mladenov V. (2018) "New Methods for Analyzing Complex Biomedical Systems and Signals," *Complexity*, vol. 2018, Article ID 6405121, 2018. Doi: 10.1155/2018/6405121
6. Jordanski, M., Radovic, M., Milosevic, Z., Filipovic, N., Obradovic, Z. (2018) "Machine Learning Approach for Predicting Wall Shear Distribution for Abdominal Aortic Aneurysm and Carotid Bifurcation Models," *IEEE Journal of Biomedical and Health Informatics*, March 2018, Vol. 22, Issue 2, pp. 537-544, doi: 10.1109/JBHI.2016.2639818.
7. Stojkovic, I. Obradovic, Z., (2017) "Sparse Learning of the Disease Severity Score for High Dimensional Data," *Complexity*, Vol. 2017 (2017), Article ID 7120691, doi:10.1155/2017/7120691.

8. Stojanovic, J., Gligorijevic, Dj., Radosavljevic, V., Djuric, N., Grbovic, M., Obradovic, Z., (2017) "Modeling Healthcare Quality via Compact Representations of Electronic Health Records," *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, Vol 14, Issue 3, pp. 545-554 doi:10.1109/TCBB.2016.2591523
9. Povalej Brzan P., Obradovic, Z., Stiglic, G. (2017) "Contribution of Temporal Data to Predictive Performance in 30-day Readmission of Morbidly Obese Patients," *PeerJ*, 25 April, 2017, doi: 10.7717/peerj.3230
10. Gillespie, A., Fink, E.L., Traino, H.M., Uversky, A., Bass, S.B., Greener, J., Hunt, J., Browne, H., Hammer, H., Reese, P.P., Obradovic, Z. (2017) "Hemodialysis Clinic Social Networks, Sex Differences, and Renal Transplantation," *American Journal of Transplantation*, March 18, doi: 10.1111/ajt.14273
11. Radovic, M., Ghalwash, M., Filipovic, N., Obradovic, Z. (2017) "Minimum Redundancy Maximum Relevance Feature Selection Approach for Temporal Gene Expression Data," *BMC Bioinformatics*, 18:9, doi: 10.1186/s12859-016-1423-9.
12. Gligorijevic Dj., Stojanovic J., Djuric N., Radosavljevic V., Grbovic M., Kulathinal R., Obradovic Z. (2016) "Large-Scale Discovery of Disease-Disease and Disease-Gene Associations," *Nature Scientific Reports*, 2016, Aug. 31, 6:32404 doi: 10.1038/srep32404.
13. Cao, X.H., Stojkovic, I., Obradovic, Z. (2016) "A Robust Data Scaling Algorithm to Improve Classification Accuracies in Biomedical Data," *BMC Bioinformatics*, Sep 9; 17(1):359, doi: 10.1186/s12859-016-1236-x.
14. Feldman, K., Stiglic, G., Dasgupta, D., Kricheff, M., Obradovic, Z., Chawla, N. (2016) "Insights into Population Health Management Through Disease Diagnoses Networks," *Nature Scientific Reports*, 2016, *Nature Scientific Reports*, July 27, 6:30465 doi: 10.1038/srep30465.
15. Gligorijevic, Dj., Stojanovic, J., Obradovic, Z., (2016) "Disease Types Discovery from a Large Database of Inpatient Records: A Sepsis Study," *Methods*, 111, 45-55. S1046-2023(16)30232-8, doi: doi:10.1016/j.ymeth.2016.07.021
16. Stojkovic, I., Ghalwash, M., Cao, X.H., Obradovic, Z. (2016) "Effectiveness of Multiple Blood-Cleansing Interventions in Sepsis, Characterized in Rats," *Nature Scientific Reports*, 2016, April 21, 6:24719 doi: 10.1038/srep24719.
17. Weissgerber, T.L., Garovic, V.D., Milin-Lazovic, J.S., Winham, S.J., Obradovic, Z., Trzeciakowski, J.P., Milic, N.M. (2016) "Reinventing Biostatistics Education for Basic Scientists," *PLOS Biology*, April 8 14(4): doi:10.1371/journal.pbio.1002430.
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19. Stiglic, G., Brzan, P.P., Fijacko, N., Fei, W., Delibasic, B., Kalousis, A., Obradovic, Z., (2015) "Comprehensible Predictive Modeling Using Regularized Logistic Regression and Comorbidity Based Features," *PLOS ONE*, Dec 8, 2015, DOI: 10.1371/journal.pone.0144439.
20. Ghalwash, M., Ramljak, D., Obradovic, Z. (2015) "Patient-Specific Early Classification of Multivariate Observations," *International Journal of Data Mining and Bioinformatics*, vol. 11, no. 4, pp. 392-411.
21. Gillespie, A., Hammer, H., Kolenikov, S., Polychronopoulou, A., Ouzienko, V., Obradovic, Z., Urbanski, M.A., Browne, T., Silva, P. (2014) "Sex Differences and Attitudes toward Living Donor Kidney Transplantation among Urban Black Patients on Hemodialysis," *Clinical Journal of the American Society of Nephrology*, Oct 7;9(10):1764-72.
22. Mathew, G., Obradovic, Z. (2013) "Distributed Privacy Preserving Decision Support System for Highly Imbalanced Clinical Data," *ACM Transactions on Management Information Systems*, Vol. 4, Issue 3, Article No. 12, October 2013.
23. Zhang, P., Cao, W., Obradovic, Z. (2013) "Learning by Aggregating Experts and Filtering Novices: A Solution to Crowdsourcing Problems in Bioinformatics," *BMC Bioinformatics*, 14 (Suppl 12):S5, 24 Sept.
24. Radosavljevic, V., Ristovski, K., Obradovic, Z. (2013) "A Data-Driven Acute Inflammation Therapy," *BMC Medical Genomics*, 6(Suppl 3):S7, Nov.
25. Mathew, G. and Obradovic, Z. "Dynamic Distributed Predictive Learning Models that Preserve Privacy for Hospitals with Insufficient Labeled Data," *Network Modeling Analysis in Health Informatics and Bioinformatics*, Dec. 2013, vol. 2, pp. 245-255.
26. Lou, Q., Obradovic, Z. "Classifying Temporal Microarray Data by Selecting Informative Genes," *Journal of Bioinformatics and Computational Biology*, 11(3):1341006, Jun 2013.
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35. Ghalwash, M., Dunker A.K., Obradovic, Z. (2012) "Uncertainty Analysis in Protein Disorder Prediction," *Molecular BioSystem*, 2012, 8 (1), 381 – 391.

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39. Potireddy, S, Midic, U., Liang, C.G., Obradovic, Z., Latham, K.E. (2010) "Positive and Negative Cis-Regulatory Elements Directing Postfertilization Maternal mRNA Translational Control in Mouse Embryos," *Am J Physiol Cell Physiol* Oct.;299. (4):C818-27.
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50. Xie, H., Vucetic, S. Iakoucheva L.M., Oldfield C.J., Dunker, A.K., Uversky, V.N. and Obradovic, Z. (2007) "Functional Anthology of Intrinsic Disorder. I. Biological Processes and Functions of Proteins with Long Disordered Regions," *Journal of Proteome Research*, May 4;6(5):1882-98.
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Data Science Journal Articles:

1. He, L., Han, C., Mukherjee, A., Obradovic, Z., Dragut, E. (in press) "On the Dynamics of User Engagement in News Comment Media," *WIREs Data Mining and Knowledge Discovery*.
2. Gligorijevic, J., Gligorijevic, Dj., Stojkovic, I., Bai, X., Goyai, A., Obradovic, Z. (2019) "Deeply Supervised Model for Click-Through Rate Prediction in Sponsored Search," *Data Mining and Knowledge Discovery*, Sept. 2019, Vol. 33, Issue 5, pp. 1446-1467.
3. Singh, L., Deshpande, A., Zhou, W., Banerjee, A., Bowers, A., Friedler, S., Jagodish, H.V., Karypis, G., Obradovic, Z., Vullikanti, A., Zuo, W. (2019) "NSF BIGDATA PI Meeting-Domain-Specific Research Directions and Data Sets," *ACM SIGMOD Record*, Vol. 47, Issue 3, pp. 32-35.
4. Jelisavcic, V., Stojkovic, I., Milutinovic, V., Obradovic, Z., (2018) "Learning of Scale-Free Networks based on Cholesky Factorization," *International Journal of Intelligent Systems*, Vol 33, Issue 6, June 2018; pp. 1322-1339, <https://onlinelibrary.wiley.com/doi/abs/10.1002/int.21984>.
5. Rege, A., Obradovic, Z., Asadi, N., Parker, E., Pandit, R. Masceri, N., Singer, B. (2018) "Predicting Adversarial Cyber Intrusion Stages Using Autoregressive Neural Networks," Vol 33, Issue 2, pp. 29-39, March/April 2018. *IEEE Intelligent Systems*
6. Negri T.T., Zhou, F., Obradovic, Z., Gonzaga, A. (2018) "Extended Color Local Mapped Pattern for Color Texture Classification under Varying Illumination," *Journal of Electronic Imaging*, Feb. 2018.
7. Delibasic, B., Radovanovic, S., Jovanovic, M., Obradovic, Z., Suknovic, M. (2017) "Ski Injury Predictive Analytics from Massive Ski Lift Transportation Data," *Journal of Sports Engineering and Technology*, Sept. 4, 2017. 10.1177/1754337117728600
8. Vujcic, T., Glass, J., Zhou, F., Obradovic, Z. (2017) "Gaussian Conditional Random Fields Extended for Directed Graphs," *Machine Learning*, October 2017, Vol 106, Issue 9-10, pp. 1271-1288. doi 10.1007/s10994-016-5611-7.
9. Glass, J., Obradovic, Z. (2017) "Structured Regression on Multiscale Networks," *IEEE Intelligent Systems*, Vol. 32, Issue 2, Mar-April, 2017, pp. 23-30.
10. Delibasic, B., Markovic, P., Delias, P., Obradovic, Z. (2017) "Mining Skier Transportation Patterns from Ski Resort Lift Usage Data," *IEEE Trans. Human-Machine Systems*. Vol. 47, Issue 3, pp. 417-422, June 2017. doi 10.2209/THMS.2016.2633438.
11. Milutinovic, V., Furht, B., Obradovic, Z., Korolija, N. (2016) "Advances in High Performance Computing and Related Issues," *Mathematical Problems in Engineering*, vol. 2016, Article ID 2632306, 3 pages.
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84. Vucetic, S. and Obradovic, Z. (2000) "Performance Controlled Data Reduction for Knowledge Discovery in Distributed Databases," *Proc. Pacific-Asia Conference on Knowledge Discovery and Data Mining*, Kyoto, Japan, April 2000, Computer Science Editorial 3, Springer-Verlag, pp. 29-39.
85. Pokrajac D. and Obradovic Z. (2000) "Combining Regressive and Auto-Regressive Models for Spatial-Temporal Prediction," *Machine Learning of Spatial Knowledge Workshop at the 17th Int'l. Conf. on Machine Learning*, Stanford, CA, June 2000.
86. Pokrajac, D. and Obradovic, Z. (2000) "Learning Heterogeneous Functions from Sparse and Non-Uniform Samples," *Proc. IEEE-INNS-ENNS Int'l Joint Conf. on Neural Networks*, Como, Italy, July 2000.
87. Pokrajac, D., Obradovic, Z. and Fiez, T. (2000) "Understanding the Influence of Noise, Sampling Density and Data Distribution on Spatial Prediction Accuracy," *Track on Simulation Methodology and Control Engineering and Artificial Intelligence*, R. V. Landeghem (Ed.): *Proc. 14th European Simulation Multiconference - Simulation and Modeling: Enablers for a Better Quality of Life*, May 23-26, 2000, Ghent, Belgium. SCS Europe 2000, ISBN 1-56555-204-0, pp. 706-708.
88. Pokrajac, D., Fiez, T. and Obradovic, Z. (2000) "A Tool for Controlled Knowledge Discovery in Spatial Domains," *Track on Simulation Methodology, Tools and Standards*, R. V. Landeghem (Ed.): *Proc. 14th European Simulation Multiconference - Simulation and Modeling: Enablers for a Better Quality of Life*, May 23-26, 2000, Ghent, Belgium. SCS Europe 2000, ISBN 1-56555-204-0, pp. 26-32.
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90. Lazarevic, A. Fiez, T. and Obradovic, Z. (2000) "A Software System for Spatial Data Analysis and Modeling," *Proc. Data Mining Minitrack at the IEEE Hawaii Int'l Conf. On System Sciences*, IEEE Computer Society Press, January 2000.
91. Lazarevic, A., Pokrajac, D., and Obradovic, Z. (2000) "Distributed Clustering and Local Regression for Knowledge Discovery in Multiple Spatial Databases," *Proc. 8th European Symposium on Artificial Neural Networks*, Bruges, Belgium, April 2000, pp. 129-134.

92. Pokrajac, D., Lazarevic, A., Vucetic, S., Fiez T. and Obradovic Z. (1999) "Image Processing in Precision Agriculture," *Proc. IEEE Int'l Conf. on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, Nis, Yugoslavia, October 1999, IEEE Press, v.2, pp. 616-619.
93. Pokrajac, D., Fiez, T., Obradovic, D., Kwek, S. and Obradovic, Z. (1999) "Distribution Comparison for Site-Specific Regression Modeling in Agriculture," *Proc. IEEE/INNS Int'l Joint Conf. on Neural Networks*, IEEE Press, ISBN 0-7803-5532-6, Washington D.C., July 1999, No. 346, Session 10.9.
94. Lazarevic, A., Xu, X., Fiez, T. and Obradovic, Z. (1999) "Clustering-Regression-Ordering Steps for Knowledge Discovery in Spatial Databases," *Proc. IEEE/INNS Int'l Joint Conf. on Neural Networks*, IEEE Press, ISBN 0-7803-5532-6, Washington D.C., July 1999, No. 345, Session 8.1B.
95. Vucetic, S., Fiez, T. and Obradovic, Z. (1999) "A Data Partitioning Scheme for Spatial Regression," *Proc. IEEE/INNS Int'l Joint Conf. on Neural Networks*, IEEE Press, ISBN 0-7803-5532-6, Washington D.C., July 1999, No. 348, Session 8.1A.
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97. Vucetic, S. and Obradovic, Z. (2000) "A Constructive Competitive Regression Method for Analysis and Modeling of Non-stationary Time Series," *Proc. the First Int'l Workshop on Computational Intelligence in Economics and Finance at the Fifth Int'l Conf. On Information Science*, Atlantic City, N.Y., USA, vol. 2, pp. 978-981.
98. Drossu, R. and Obradovic, Z., (1997) "INFFC Data Analysis: Lower Bounds and Testbed Design Recommendations," *Proc. 1997 Computational Intelligence in Financial Engineering*, New York, N.Y., pp. 71-74.
99. Drossu, R. and Obradovic, Z., (1997) "Regime Signaling Techniques for Non-stationary Time Series Forecasting," *Proc. Chaotic and Complex Systems Minitrack at the 30-th Hawaii Int'l Conf. on System Sciences*, IEEE Computer Society Press, vol. 5, pp. 530- 538.
100. Drossu, R. and Obradovic, Z., (1995) "Novel Results on Stochastic Modelling Hints for Neural Network Prediction," *Proc. World Congress on Neural Networks*, Washington, D.C., vol. 3, pp. 230-233.
101. Drossu, R. and Obradovic, Z., (1995) "Stochastic Modeling Hints for Neural Network Prediction," *Proc. World Congress on Neural Networks*, Washington, D.C., vol. 2, pp. 16-19 and 88-91.
102. Drossu, R. and Obradovic, Z., (1995) "Prediction Horizon Effects on Stochastic Modeling Hints for Neural Networks," *Proc. the Workshop on Environmental and Energy Applications of Neural Networks*, Pacific Northwest Laboratory, Richland, WA, World Scientific Publishing.
103. Obradovic, Z. and Chenoweth, T. (1996) "Selection of Learning Algorithms for Trading Systems Based on Biased Estimators," *Proc. Adaptive Distributed Parallel Computing Conference*, Dayton, OH, pp. 458-467.
104. Romero, P. and Obradovic, Z. (1995) "Comparison of Symbolic and Connectionist Approaches to Local Experts Integration," *Proc. the IEEE Technical Applications Conference at Northcon 95*, Portland, OR, pp. 105-110.
105. Chenoweth, T., Obradovic, Z., and Lee, S. (1995) "Technical Trading Rules as a Prior Knowledge to a Neural Networks Prediction System for the S&P 500 Index," *Proc. The IEEE Technical Applications Conference at Northcon 95*, Portland, OR, pp. 111-115.
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107. Chenoweth, T. and Obradovic, Z., (1994) "Feature Selection for Predictive Models of the Stock Market," *Proc. 2nd Int. Workshop Neural Networks in the Capital Market*, Pasadena, CA.
108. Obradovic, Z. and Fletcher, J., (1993) "Integration of Knowledge-Based and Constructive Learning Neural Networks," *Proc. 1993 World Congress on Neural Networks*, Portland, OR, vol. 1, pp. 589-592.
109. Obradovic, Z. and Fletcher, J. (1992) "Integration of Knowledge-Based and Constructive Learning Neural Networks," *Notes of the 1992 AAAI Workshop on Integrating Neural and Symbolic Processes*, held in conjunction with National Conference on Artificial Intelligence AAAI, San Jose, CA.
110. Jovanovic, N., Milutinovic, V. and Obradovic, Z. (2002) "Foundations of Predictive Data Mining," *Proc IEEE 6th Conf. on Neural Networks Applications in Electrical Engineering*, Belgrade, Yugoslavia, pp. 53-58.
111. Pokrajac, D. and Obradovic, Z. (2001) "Neural Network-Based Method for Site-Specific Fertilization Recommendation," *Proc. Society for Engineering in Agricultural, Food, and Biological Systems (ASAE) Annual International Meeting, 2001*.
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113. Milenkovic, S., Obradovic, Z. and Litovski, V. (1996) "Annealing Based Dynamic Learning in Second-Order Neural Networks," *Proc. IEEE Int. Conf. on Neural Networks*, Washington D.C., pp. 458-463.
114. Drossu, R., Obradovic, Z. and Fletcher, J. (1996) "A Flexible Graphical User Interface to Heterogeneous Neural Network Simulators," *Proc. 10th European Simulation Multiconference, Int. Society for Computer Simulation*, Budapest, Hungary, pp. 273-278.
115. Venkateswaran, R., Obradovic, Z., and Raghavendra, C.V. (1996) "Cooperative Genetic Algorithm for Optimization Problems in Distributed Computer Systems," *Proc. 2nd Online Workshop on Evolutionary Computation*, March 11-22, 1996, pp. 49-52. Also at WWW location <http://www.bioele.nuee.nagoya-u.ac.jp/wec2/papers/p015.html>.
116. Drossu, R., Lakshman, T.V., Obradovic, Z. and Raghavendra C.S. (1994) "Neural Network Techniques for Video Traffic Prediction," *Proc. 6th Int'l. Workshop on Packed Video*, Portland, pp. D.9.1-D.9.4.
117. Fletcher, J. and Obradovic, Z. (1994) "Constructively Learning a Near-Minimal Neural Network Architecture," *Proc. IEEE Int'l. Conf. on Neural Networks*, Orlando, FL, pp. 204-208.
118. Obradovic, Z. and Srikumar, R. (1994) "Evolutionary Design of Application Tailored Neural Networks," *Proc. IEEE Int'l. Symp. Evolutionary Computation*, Orlando, FL, pp. 284-289.
119. Venkateswaran, R. and Obradovic, Z., (1994) "Efficient Learning through Cooperation," *Proc. World Congress on Neural Networks*, San Diego, CA, vol. 3, pp. 390-395.
120. Mehr, I., and Obradovic, Z., (1994) "Parallel Neural Network Learning Through Repetitive Bounded Depth Trajectory Branching," *Proc. 8th IEEE Int. Parallel Processing Symposium*, Cancun, Mexico, pp. 784-791.

121. Fletcher, J. and Obradovic, Z., (1993) "Parallel Constructive Neural Network Learning," *Proc. 2nd IEEE Int. Symp. on High-Performance Distributed Computing*, Spokane, WA, pp. 174-178.
122. Perez, L.G., Flechsig, A.J., Meador, J.L. and Obradovic, Z. (1993) "Training an Artificial Neural Network to Discriminate Between Magnetizing Inrush and Internal Faults," *IEEE Power Engineering Society 1993 Winter Meeting*.
123. Obradovic, Z. and Parberry, I. (1990) "Analog Neural Networks of Limited Precision I: Computing with Multilinear Threshold Functions," in *Advances in Neural Information Processing Systems 2*, ed. D.S. Touretzky, San Mateo, CA: Morgan-Kaufmann, pp. 702-709.
124. Obradovic, Z. and Parberry, I. (1990) "Learning with Discrete Multi-Valued Neurons," *Machine Learning: Proc. 7th Int'l. Conf.*, ed. B. W. Porter and R.J. Mooney, Austin, TX, Morgan-Kaufmann, pp. 392-399.
125. Pokrajac, D. and Obradovic, Z. (2001) "Neural network-based software for precision farming," *Proc. 2001 IEEE/INNS International Joint Conference on Neural Networks*, Washington D.C.
126. Perez, L.G. Flechsig, A.J., Meador, J.L. and Obradovic, Z. (1993) "Training an Artificial Neural Network to Discriminate Between Magnetizing Inrush and Internal Faults," *IEEE Power engineering Society 1993 Winter Meeting*.

3. Ostvareni rezultati u razvoju odgovarajuće obrazovno-naučne oblasti

University Service:

- University Information Technology Strategic Planning Committee (2017-2018).
- University CIO Search Committee member (2016).
- University Research and Creativity Award Committee member (2010-2013).
- University Graduate Board Sciences Subcommittee member (2010).
- President's Tenure and Promotion Advisory Committee member (2004-2005).
- CST Dean Search Committee member (2004-2005).
- CST College Promotion and Tenure Committee member (2003-2011).
- CST Merit Committee member (2001, 2003, 2006-2008, 2010, 2012, 2013).
- CIS Chair of Department Chair Search Committee (2017-2018).
- CIS Chair of Faculty Search Committee (2001, 2002, 2007-2008, 2017, 2018, 2019).
- CIS Executive Committee (2009-2012).
- CIS Faculty Search Committee member (2009, 2016, 2017).
- CIS Chair of Promotion and Tenure Committee (2006, 2008-2017)
- CIS Promotion and Tenure Committee member (2004).
- CIS Advisor to Faculty Search Committee (2003).
- CIS Chair of Research Committee (2005-2007).
- CIS Chair of Research Committee (2000-present).
- CIS Graduate Studies Committee member (2000-present).
- EECS Graduate Program Coordinator for Computer Science (1997-2000).
- EECS Undergraduate Program Coordinator for Computer Science (1992-1994).
- EECS Personnel and Policy Committee elected member (1997-present).
- EECS Task Force on Graduate Studies Policies member (1996-present).
- CS Faculty Search committee chair (1999).
- EECS Director Search committee member (1999).
- CS Promotion and Tenure Committee chair (1999).
- CS Third Year Evaluation Committee member (1999).
- CS Faculty Search Committee member (1997).
- 20 PhD and more than 30 M.S. thesis committees member (1991-present).
- Interdisciplinary graduate students advising and committee service in Economics, Management and Systems, Biochemistry, Chemistry, Crop and Soil Sciences, Psychology, Education, Electrical Engineering and Computer Science (1991-present).
- CS colloquium coordination (1991-1996).
- CS Graduate Students Admission committee member (1994-1996).
- Software Engineering technical committee member (1994-1996).
- Computer Engineering Curriculum Development committee member (1991-1994).
- Software Engineering Curriculum Development committee member (1991-1993).
- Algorithmics Curriculum Development committee member (1991-1994).
- Artificial Intelligence Curriculum Development committee member (1991-1994).
- Undergraduate Studies committee member (1991-1994).
- Boeing Chairman Professorship Faculty Search committee member (1991).

TEACHING:

Consistently receiving excellent student evaluations (significantly better than for department, college and university at all criteria)

- Analysis and Modeling of Social and Information Networks (graduate and undergraduate course taught in 2013, 2015, 2017, 2019).
- Knowledge Discovery and Data Mining (graduate course and undergraduate course taught in 1998, 2003, 2004, 2008, 2010, 2012, 2014, 2016, 2018).
- Machine Learning (graduate course, taught in 2005, 2006)
- Data Warehousing, Filtering and Data Mining (graduate course, taught in 2001).
- Neural Computation (graduate course, developed and taught in 1992, 1993, 1994, 1996 and 1999, 2001, 2006, 2009, 2011).
- Parallel Computation (new graduate course, developed and taught in 1992, 1993 and 1996).
- Artificial Intelligence (graduate course, taught in 1992 and 1993).
- Algorithmics (graduate course, developed and taught in 1995, 1996, 1997, 1998).
- Design and Analysis of Algorithms (undergraduate course, taught in 1994).
- Automata and Formal Languages (undergraduate course, taught in 1994 and 1997).
- Introduction to Artificial Intelligence (undergraduate course, taught in 1991 and 1995).
- Neural Network Design and Application (new undergraduate course, developed and taught in 1997).

STUDENTS ADVISING:

Postdoctoral Associates and Visiting Scholars:

- Xiaohong Li (1999-2001)
- Dr. Slobodan Vucetic (2001-2002)
- Dr. Junping Wang (1999-2001)
- Lining Yu (2006-2007)
- Vadim Ayuyev (2007-2008)
- Zhongmei Shu (2008-2010)
- Dr. Dairong Wang (2009-2011)
- Petar Jevtic, University of Torino (2011-2013)
- Dr. Boris Delibasic, Fulbright Scholar, University of Belgrade (2011-2012)
- Dr. Gregor Stiglic, University of Maribor (2013)
- Jelena Slivka, University of Novi Sad (2012-2013)
- Dr. Vladan Radosavljevic (2012-2013)
- Dr. Kosta Ristovski (2012-2013)
- Dr. Mladen Nikolic, University of Belgrade (2013)
- Victoria Weixia Gui, Wuhan University (2013-2014)
- Milos Jovanovic, University of Belgrade (2013-2014)
- Ivan Stojkovic, M. Pupin Institute (2014)
- Vladislav Jelisavcic, Math. Institute, Serbian Academy of Sciences (2014)
- Ana Kovacevic, University of Belgrade (2014-2015)
- Dr. Milan Vukicevic, University of Belgrade (2014-2015)
- Dr. Mohamed Ghalwash (2013-2016)
- Ana Serafimovic, University of Belgrade (2016)
- Tijana Vujicic, University of Belgrade (2016)
- Milos Jordanski, University of Belgrade (2016)
- Tamiris Negri, University of Sao Paulo, Brazil, (2016)
- Dr. Milos Radovic, University of Kragujevac (2015 – 2016)
- Branko Arsic, University of Kragujevac (2016 - 2017)
- Martin Pavlovski, University of Skopje (2016 - 2017)
- Dr. Milan Basic, University of Nis (2016 - 2017)
- Dr. Fang Zhou (2015 – 2018)
- Daniel Polimac (2019-2020)

Current Ph.D. Students:

- Ameen Abdelhai
-Research: *Complex Networks*
- Nouf Albarakati
-Research: *Complex Networks*
- Jumanah Alshehri
-Research: *Natural Language Processing*
- Nima Asadi
-Research: *Cyber Security*
- Mohammad Alqudah
-Research: *Complex Systems*
- Jesse Glass
-Research: *Complex Networks*

- Ayoub Hazrati
-Research: *Complex Networks*
- Branimir Ljubic
- Research: *Health Informatics*
- Thomas Mirowski
- Research: *Social Informatics*
- Andrew Mamroth
-Research: *Data Science*
- Hussain Otudi
-Research: *Data Science*
- Shoumik Roychoudhury
-Research: *Time Series Analysis*
- Martin Pavlovski
-Research: *Complex Networks*
- Athanasia Polychronopoulou
-Research: *Complex Networks*
- Willian Power
-Research: *Complex Networks*
- Marija Stanojevic
-Research: *Natural Language Processing*

Graduated Ph.D. Students:

- Chao Han
 - Dissertation: "On the Predictive Modeling of Attributed Graphs," Computer and Information Science Ph.D., Temple University, Summer 2019.
 - First Ph.D. position: Research Scientist, Facebook.
- Xi Hang Cao
 - Dissertation: "On Leveraging Representational Learning Techniques for Data Analytics in Biomedical Informatics," Computer and Information Science Ph.D., Temple University, Spring 2018.
 - First Ph.D. position: Lead Data Scientist, Automatic Data Processing (ADP), LLC.
- Djordje Gligorijevic
 - Dissertation: "Predictive Uncertainty Quantification and Explainable Machine Learning in Healthcare," Computer and Information Science Ph.D., Temple University, Summer 2018.
 - First Ph.D. position: Data Scientist, Yahoo! Labs.
- Ivan Stojkovic
 - Dissertation: "Functional Norm regularization for Margin-Based ranking on temporal Data," Computer and Information Science Ph.D., Temple University, Spring 2018.
 - First Ph.D. position: Data Scientist, Yahoo! Labs.
- Jelena Gligorijevic
 - Dissertation: "Context-Aware Learning from Partial Observations," Computer and Information Science Ph.D., Temple University, Spring 2018.
 - First Ph.D. position: Data Scientist, Yahoo! Labs.
- Debasish Das
 - Dissertation: "*Bayesian Sparse Regression with Application to Data-driven Understanding of Climate*," Computer and Information Science Ph.D., Temple University, Spring 2015.
 - First Ph.D. position: Data Scientist, Verizon Big Data Analytics.
- George Mathew
 - Dissertation: "A Perturbative Decision Making Framework for Distributed Sensitive Data," Computer and Information Science Ph.D., Temple University, Spring 2014.
 - First Ph.D. position: Chief Technology Officer, Goodwin College of Professional Studies, Drexel University.
 - Current position: Staff Scientist (Full), Lincoln Laboratories, The Massachusetts Institute of Technology.
- Mohamed Ghalwash
 - Dissertation: "*Interpretable Early Classification of Multivariate Time Series*," Computer and Information Science Ph.D., Temple University, Spring 2013.
 - First Ph.D. position: Research Associate, Center for Data Analytics and Biomedical Informatics Center, Temple University.
 - Current position: Data Scientist, IBM T.J. Watson Labs
- Ping Zhang
 - Dissertation: "*Learning from Multiple Data Sources*," Computer and Information Science Ph.D., Temple University, Fall 2012.
 - First Ph.D. position: Research Associate, IBM Thomas J. Watson Research Center, Yorktown Heights.
 - Current position: Assist. Professor, Ohio State University.
- Qiang Lou
 - Dissertation: "*Learning from Incomplete High-dimensional Data*," Computer and Information Science Ph.D., Temple University, Fall 2012.
 - First Ph.D. position: Applied Researcher, Microsoft.
- Kosta Ristovski

- Dissertation: “*Knowledge Discovery through Probabilistic Models*,” Computer and Information Science Ph.D., Temple University, Fall 2012.
 - First Ph.D. position: Research Associate, Center for Data Analytics and Biomedical Informatics Center, Temple University.
 - Current position: Research Scientist, Big Data Lab Hitachi America Ltd.
- Vladimir Ouzienko
 - Dissertation: “*Log Linear Models for Prediction and Analysis of Networks*,” Computer and Information Science Ph.D., Temple University, Fall 2012.
 - First Ph.D. position: Product Lead with Diio LLC - business intelligence provider for aviation industry.
- Vladan Radosavljevic
 - Dissertation: “*Gaussian Conditional Random Fields for Regression in Remote Sensing*,” Computer and Information Science Ph.D., Temple University, Fall 2011.
 - First Ph.D. position: Research Associate, Center for Data Analytics and Biomedical Informatics Center, Temple University.
 - Current position: Machine Learning Chapter Lead, Spotify Inc.
- Uros Midic
 - Dissertation: “*Genome Wide Prediction of Intrinsic Disorder, Sequence Alignment of Intrinsically Disordered Proteins*,” Computer and Information Science Ph.D., Temple University, Fall 2011.
 - First Ph.D. position: Research Associate, Fell Cancer Institute, Temple University
 - Current position: Research Scientist, Michigan State University.
- Qifang Xu
 - Dissertation: “*Statistical Analysis of Biological Interactions of Homologous Proteins*,” Computer and Information Science Ph.D., Temple University, Fall 2008.
 - First Ph.D. position: Research Associate, Fox Chase Cancer Institute, Philadelphia
- Michael Hongbo Xie
 - Dissertation: “*Functional Characterization of Large Scale Biological Data*,” Computer and Information Science Ph.D., Temple University, Summer 2007.
 - First Ph.D. position: Bioinformatics Specialist, IDF Research Department of Children's Hospital of Philadelphia
- Bo Han
 - Dissertation: “*Knowledge Discovery by Fusion of Information*,” Computer and Information Science Ph.D., Temple University, Summer 2007.
 - First Ph.D. position: Wuhan University
- Kang Peng
 - Dissertation: “*Learning from Protein Structure Related Data*,” Computer and Information Science Ph.D., Temple University, Spring 2006.
 - First Ph.D. position: Research Associate, School of Informatics, Indiana University, Bloomington.
- Predrag Radivojac
 - Dissertation: “*Classification and Knowledge Discovery in Protein Databases*,” Computer and Information Science Ph.D., Temple University, Fall 2003.
 - First Ph.D. position: Research Associate, School of Medicine, Indiana University, Indianapolis.
 - Current position: Full Professor, Computer Science, Northeastern University.
- Dragoljub Pokrajac
 - Dissertation: “*Knowledge Discovery in Spatial-Temporal Databases*,” Computer and Information Science Ph.D., Temple University, Summer 2002.
 - First Ph.D. position: Assistant Professor, Computer Science Dept., Delaware State University.
- Aleksandar Lazarevic
 - Dissertation: “*Distributed Inductive Learning for Time/Space Data Analysis*,” Computer and Information Science Ph.D., Temple University, Fall 2001.
 - First Ph.D. position: Research Associate, Army High Performance Computing Research Center, Computer Science Dept., University of Minnesota.
 - Current position: Senior Director of Data Science, Aetna Inc.
- Slobodan Vucetic
 - Dissertation: “*On-line Systems for Non-stationary Data Analysis and Modeling*,” Electrical Engineering Ph.D., WSU, Summer 2001.
 - First Ph.D. position: Visiting Assistant Professor, Center for Information Sciences and technology and Computer and Information Sciences Department, Temple University, Philadelphia, PA.
- Pedro Romero
 - Dissertation: “*Knowledge Discovery and Data Mining in Protein Databases*,” Computer Science Ph.D., WSU, Spring 1999.
 - First Ph.D. position: Research Scientist, Artificial Intelligence Laboratories, *Stanford Research Institute International*, Menlo Park, CA.
 - Current position: Associate Scientist, University of Wisconsin, Madison.
- Radu Drossu
 - Dissertation: “*Efficient Design of Neural Networks for Time Series Prediction*,” Computer Science Ph.D., WSU, Summer 1997.
 - First Ph.D. position: Staff Scientist, Financial Engineering Group, *HNC Software Inc.*, San Diego, CA.
 - Current position: Director Risk Analytics, Amazon.
- Tim Chenoweth
 - Dissertation: “*A Neural Network Based System for Predicting Future Returns for the S&P 500 Stock Index*,” Interdisciplinary Ph.D., WSU, Summer 1996.

- First Ph.D. position: Assistant Professor (tenure track), School of Accountancy, *Arizona State University*.
- Srdjan Milenkovic
 - Dissertation: "*Higher-Order Dynamic Learning Through Nondeterministic Global Optimization*," Electrical Eng. Ph.D., University of Nis, Yugoslavia, co-advised with Prof. Vanco Litovski from Univ. of Nis, Summer 1996.
 - First Ph.D. position: Research Scientist, Microelectronics Centre, *Middlesex University*, London, United Kingdom.
- Justin Fletcher
 - Dissertation: "*A Constructive Approach to Hybrid Architectures for Machine Learning*," Computer Science Ph.D., WSU, Summer 1994.
 - First Ph.D. position: Principal Engineer, *Itron Corp.*, Spokane, WA.

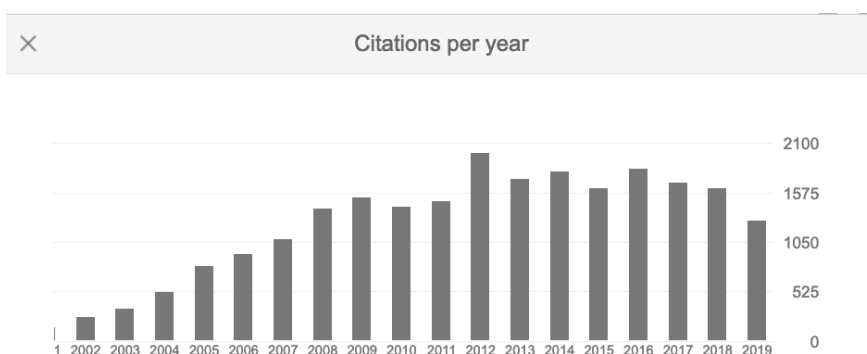
Graduated M.S. Students:

- Benjamin H. North
 - Thesis: "*A Comparison of Clustering Algorithms for the Study of Antibody Loop Structures*," Computer Science, M.S. Summer 2017.
- Stephen Muchmore
 - Thesis: "*Combining Point Level and Aggregated Tract Level Data to Improve Clustering of Adolescent Crime Data in Philadelphia*," Computer Science, M.S., Fall 2007.
- Yilian Qin
 - Thesis: "*Support Vector Machine Reuse for Large Spatio-Temporal Datasets*," Computer Science M.S., Spring 2005.
 - Continued towards a computer science Ph.D. at Temple University
- Tim Chenoweth
 - Project: "*Learning Algorithms for Trading Systems Based on Biased Estimators*," Computer Science M.S., Spring 1996.
 - Continued towards an Interdisciplinary Ph.D. at WSU.
- Srikumar Rangarajan
 - Thesis: "*Design of Application-Tailored Neural Networks Using Genetic Algorithms*," Computer Science M.S., Summer 1993.
 - First M.S. job at the Microsoft Inc., Redmond, WA.
- Anthony Kampka
 - Thesis: "*A Stochastic Technique in Constructive Training of Artificial Neural Networks*," Computer Science M.S. Fall 1992.
 - First M.S. job at the Exabyte Corp., Boulder, CO.
- Shailesh Vaishnavi
 - Project: "*Storage Organization for Multiattribute Retrieval in CAD Databases*," Computer Science M.S., Summer 1992.
 - First M.S. job at the Amdahl Corp., Sunnyvale, CA.

4. Citiranost naučnih rezultata

h indeks 56 (56 rada citarana vise od 56 puta)

ukupan broj citata radova u casopisima 23843 (na osnovu Google Scholar i ne ukljucujuci citiranost konferencijskih radova)



5. Međunarodna naučna reputacija

5.1 Gost-urednik u uglednim međunarodnim naučnim časopisima

Guest Editor:

- *Complexity*, Special Issue on New Methods for Analyzing Complex Biomedical Systems and Signals (co-edited with I. Reljin, M. Popovic and V. Mladenov), 2017.
- *Mathematical Problems in Engineering*, Special Issue on Advances in High Performance Computing and Related Issues (co-edited with V. Milutinovic and B. Furht), 2016.
- *ACM Transactions on Knowledge Discovery from Data (TKDD)*, Special Issue on T (co-edited with F. Wang, H. Tong, M. De Choudhury), 2015.
- *Data Mining and Knowledge Discovery*, Special Issue on Data Mining for Medicine and Healthcare (co-edited with F. Wang, G. Stiglic and I. Davidson), 2014.
- Statistical Analysis and Data Mining, The Best of SDM 2009 Issue (co-edited with H. Liu)
- *BMC Bioinformatics*, Special Issue on First International Workshop on Text Mining in Bioinformatics (co-edited with M. Song), vol. 8, supp. 9, 2007.
- *Knowledge and Information Systems*, Special Issue on Selected and Revised Papers from KDD-2000 Workshop on Distributed and Parallel Knowledge Discovery, vol. 3, no. 4, 2001. (co-edited with J. Ghosh, H. Kargupta and V. Kumar)
- *Journal of Computational Intelligence in Finance*, Special Issue on Financial News Analysis using Distributed Data Mining, vol. 7, no. 2, March 1999, (co-edited with S.H. Rubin).
- *Journal of Computational Intelligence in Finance*, Special Issue on Hybrid Neural Networks for Financial Forecasting, vol. 5, no. 1, January 1997.

5.2 Predsedavao međunarodnim naučnim konferencijama

General Chair:

- *BIGDATA4HEALTH: The International Workshop on Big Data Analytics for Smart and Connected Health, The Second IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies*, Philadelphia, PA, July 2017 (**Co-Chair** with J. Rodrigues, H. Song and O.R. Zaiane).
- *2014 SIAM International Conference on Data Mining*, Philadelphia, PA, April 2014 (**with M. Zaki**).
- *2013 SIAM International Conference on Data Mining*, Austin, TX, May 2013 (**with J. Ghosh**).

Program Chair:

- *2018 SDM Conference Workshop on Data Mining for Medicine and Healthcare*, San Diego, CA, May 2018 (**Co-Chair** with F. Wang, X. Wang, L. He).
- *IEEE Big Data 2017 Conference*, Boston, MA, Dec. 2017 (**Co-Chair** with J-Y. Nie and T. Suzumura).
- *2017 SDM Conference Workshop on Data Mining for Medicine and Healthcare*, Huston, TX, April 2017 (**Co-Chair** with F. Wang, X.B.Hu, G. Stiglic and N. Chawla).
- *2015 KDD Workshop on Big CHat: Connected Health at Big Data Era*, Sidney, Australia, Aug. 2015 (**Co-Chair** with F. Wang, H. Tong and M. De Choudhury).
- *2014 KDD Workshop on Big CHat: Connected Health at Big Data Era*, New York, NY, Aug. 2014 (**Co-Chair** with F. Wang, H. Tong and M. De Choudhury).
- *The 4th International Workshop on Mining Multiple Information Sources, in conjunction with IEEE International Conference on Data Mining*, Sydney, Australia, Dec. 2010 (**Co-Chair** with R. Jin, X. Zhu, H. Wang).
- *Ninth SIAM International Conference on Data Mining*, Atlanta, Reno, April, 2009 (**Program Co-Chair** with H. Liu).
- *IEEE 2007 International Conference on Bioinformatics and Biomedicine*, San Jose, CA, Nov. 2007 (**Program Co-Chair** with X.T. Hu and I. Mandoiu; and **Steering committee member**).
- *The 39th Symposium on the Interface of Statistics, Computing Science and Applications*, Philadelphia, PA, May 2007 (**Co-Chair** with A. Izenman).
- *ACM First International Workshop on Text Mining in Bioinformatics*, Arlington, MD, Nov. 2006 (**Co-Chair** with M. Song).
- *Distributed and Parallel Knowledge Discovery Workshop, The Sixth ACM SIGKDD Int'l. Conf. on Knowledge Discovery and Data Mining*, Boston, August, 2000 (**Co-chair**).

Program Vice-Chair or Track Chair:

- *25th ACM KDD Conference on Knowledge Discovery and Data Mining (KDD 2019)*, Anchorage, Alaska, Aug. 2019 (**Senior Program Committee Member**).
- *24th ACM KDD Conference on Knowledge Discovery and Data Mining (KDD 2018)*, London, UK, Aug. 2018 (**Senior Program Committee Member**).
- *5th International Conference on Computational Systems Biology*, Philadelphia, August 22 - 23, 2016.
- *The IEEE International Conference on Bioinformatics and Biomedicine*, Washington DC, Nov 2015 (**Co-chair** for the Cross-Cutting Computational Methods and Bioinformatics Infrastructure area).

- *The IEEE International Conference on Data Mining*, Dallas, TX, Dec. 2013 (**Program Vice Chair**).
- *22nd ACM International Conference on Information and Knowledge Management (CIKM 2013)*, Knowledge Management Track, San Francisco, CA, Oct. 2013 (**Senior Program Committee Member**).
- *The 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, San Diego, California, Aug. 2011 (**Senior Program Committee Member**).
- *Eleventh SIAM International Conference on Data Mining*, Phoenix, Arizona, April 2011 (**Senior Program Committee Member**).
- *Tenth SIAM International Conference on Data Mining*, Columbus, Ohio, April 2010 (**Senior Program Committee Member**).
- *Eight SIAM International Conference on Data Mining*, Atlanta, Georgia, April, 2008 (**Applications Track Chair**).
- *The 2007 International Conference on Artificial Intelligence*, Las Vegas, NV, June 2007 (**Program Vice Chair**).
- *The 2007 International Conference on Bioinformatics and Computational Biology*, Las Vegas, NV, June 2007 (**Program Vice Chair**).
- *The 2007 International Conference on Genetic and Evolutionary Methods*, Las Vegas, NV, June 2007 (**Program Vice Chair**).
- *The 2007 International Conference on Scientific Computing*, Las Vegas, NV, June 2007 (**Program Vice Chair**).
- *IEEE 21st International Conference on Advanced Information Networking and Applications*, Niagara Falls, Canada, May 2007 (**Program Vice Chair** for Distributed Database and Data Mining).
- *Sixth SIAM International Conference on Data Mining*, Bethesda, MD, April 2006 (**Bio-Medical Informatics Track Chair**).

Steering Committee Member:

- *IEEE 2009 International Conference on Bioinformatics and Biomedicine*, Washington, D.C., November, 2009.
- *2010 Conference on Intelligent Data Understanding*, NASA Ames Research Center.

Award Selection Committee Chair:

- SIAM Data Mining / IBM Early Career Data Mining Researcher Award, 2019
- SIAM Data Mining / IBM Early Career Data Mining Researcher Award, 2018
- The 11th ACM Int'l Conf. on Web Search and Data Mining, 2018
- SIAM Data Mining / IBM Early Career Data Mining Researcher Award, 2017

Award Selection Committee Member:

- *The 11th ACM Int'l. Conf. on Web Search and Data Mining (WSDM)*, Los Angeles, CA, Feb., 2018

Program Committee Member:

- *2nd Int'l IFIP Cross Domain Conf. for Machine Learning and Knowledge Extraction (CD MAKE)*, Hamburg, Germany, Aug. 2018.
- *The 23rd ACM SIGKDD Conf. Knowledge Discovery and Data Mining (KDD)*, Halifax, NS, Canada, Aug. 2017.
- *The International Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics*, Sydney, Australia, July 2017.
- *The 2nd IEEE Conference on Connected Health: Applications, Systems and Engineering Technologies*, Philadelphia, PA July 2017.
- *The 2016 IEEE International Conference on Data Mining (IEEE ICDM)*, Barcelona, Spain, Dec. 2016.
- *2016 IEEE International Conference on Big Data*, Washington DC, Nov 2016.
- *AMIA 2016 Annual Symposium*, Chicago, IL, Nov 2016.
- *IEEE Int'l Conf. on Neural Networks Applications in Electrical Engineering*, Belgrade, Serbia, November 2016.
- *IEEE International Conference on Healthcare Informatics*, Chicago, IL, Oct. 2016.
- *2nd EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures*, Belgrade, Serbia, Oct. 2016.
- *The 22th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, San Francisco, CA, Aug. 2016.
- *20th East-European Conference on Advances in Databases and Information Systems*, Prague, Czech Republic, Aug. 2016.
- *EWG-DSS' 2016 International Conference on Decision Support System Technology (ICDSST 2016)*, Plymouth, UK, Ma. 2016.
- *The First IEEE Conference on Connected Health Applications, Systems and Engineering Technologies*, Washington D.C., June 2016.
- *AMIA 2015 workshop on Data Mining for Medical Informatics*, San Francisco, CA, Nov., 2015.
- *ACM Ninth International Workshop on Data and Text Mining in Biomedical Informatics*, CIKM 2015 conference, Melbourne, Australia, October, 2015.
- *AMIA 2014 Annual Symposium*, San Francisco, CA, Nov. 2015.
- *The 2015 IEEE International Conference on Data Mining (IEEE ICDM)*, Atlantic City, NJ, Nov., 2015.
- *The 2015 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, Washington D.C., Nov., 2015.
- *2015 IEEE International Conference on Big Data*, Santa Clara, CA, Oct 2015.
- *18th International Conference on Discovery Science*, Banff (Canada), October 2015.
- *The 21th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, Sydney, Australia, Aug., 2015.
- *4th Workshop on Data Mining for Medicine and Healthcare, 2015 SIAM International Conference on Data Mining*, Vancouver, Canada, May 2015.
- *The 2014 IEEE International Conference on Data Mining (IEEE ICDM)*, Shenzhen, P.R.China, Dec., 2014.
- *AMIA 2014 workshop on Data Mining for Medical Informatics -- Electronic Phenotyping*, Washington, D.C., Nov. 15, 2014.
- *Discovery Science Conference*, Bled, Slovenia, Oct. 8-10. 2013.
- *The 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, New York, NY, USA, Aug. 24-27, 2014.
- *The 2014 International Conference on Advances in Social Networks Analysis and Mining*, Beijing, China, August 17-20, 2014.
- *3rd Workshop on Data Mining for Medicine and Healthcare, 2014 SIAM International Conference on Data Mining*, Philadelphia, PA, April 2014.
- *The 2013 IEEE International Conference on Big Data (IEEE Big Data 2013)*, Silicon Valley, CA, USA, October 6-9, 2013.
- *The 19th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, Chicago, IL, Aug. 2013.

- The 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Niagara Falls, Aug. 2013.
- International Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics, Niagara Falls, Aug. 2013.
- 2nd Workshop on Data Mining for Medicine and Healthcare, 2013 SIAM International Conference on Data Mining, Austin, TX, May 2013.
- The 2012 IEEE International Conference on Data Mining (IEEE ICDM), Brussels, Belgium, Dec., 2012.
- IEEE Int'l Symp. Network Enabled Health Informatics, Biomedicine and Bioinformatics, Istanbul, Turkey, Aug., 2012)
- 21st ACM International Conference on Information and Knowledge Management (CIKM 2012) Maui, Hawaii, Oct. 29-Nov. 2, 2012.
- The 2012 IEEE International Conference on Bioinformatics and Biomedicine, Philadelphia, PA, Oct. 2012.
- Int'l Meeting on Data Mining in Bioinformatics, Belgrade, Serbia, June 2012.
- Twelfth SIAM International Conference on Data Mining, Anaheim, California, April 2012.
- The 2011 IEEE International Conference on Bioinformatics and Biomedicine, Atlanta, GA, Nov 12-15, 2011.
- The 2011 NASA Conference on Intelligent Data Understanding, Mountain View, CA, October 20-21, 2011.
- ACM Fifth International Workshop on Data and Text Mining in Biomedical Informatics, in conjunction with CIKM 2011, Glasgow, UK, October, 2011.
- Second ICDM Workshop on Knowledge Discovery from Climate Data: Prediction, Extremes, and Impact, held in conjunction with The IEEE International Conference on Data Mining (IEEE ICDM), Sydney, Australia, December, 2010.
- The 2010 ACM Second International Workshop on Data and Text Mining in Bioinformatics, in conjunction with CIKM 2010, Toronto, Canada, October 2010.
- The Third Conference on Intelligent Data Understanding, San Francisco Bay area, October 5-7th, 2010.
- The 9th International Workshop on Data Mining in Bioinformatics, held in conjunction with The ACM 16th SIGKDD Conference on Knowledge Discovery and Data Mining, Washington, DC, Aug. 2010.
- The 2010 International Conference on Advances in Social Networks Analysis and Mining, Odense, Denmark, August, 2010.
- The 8th International Conference on Machine Learning and Application (ICMLA 2009), Miami, Florida, USA, December, 2009.
- First ICDM Workshop on Knowledge Discovery from Climate Data: Prediction, Extremes, and Impact, held in conjunction with The IEEE International Conference on Data Mining (IEEE ICDM), Miami, Florida, USA, December, 2009.
- The 15th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, Paris, France, June 2009.
- The 7th International Conference on Machine Learning and Application (ICMLA 2008) San Diego, California, Dec., 2008.
- The 2008 IEEE International Conference on Bioinformatics and Biomedicine, Philadelphia, PA, Nov 7-9, 2008.
- The 2008 ACM Second International Workshop on Data and Text Mining in Bioinformatics, in conjunction with CIKM 2008, Napa Valley, California, Oct., 2008.
- 12th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Osaka, Japan, May, 2008.
- Data Mining in Medicine Workshop, in conjunction with the IEEE International Conference on Data Mining, Omaha, Nebraska, October, 2007.
- 2nd IAPR Workshop on Pattern Recognition in Bioinformatics, Singapore, October, 2007.
- 11th Pacific-Asia Conference on Knowledge Discovery and Data Mining, Nanjing, China, May, 2007.
- 2nd BioDM Workshop on Data Mining for Biomedical Applications, Nanjing, China, May, 2007.
- Seventh SIAM International Conference on Data Mining, Minneapolis, Minnesota, April, 2007.
- 2007 IEEE Symposium Series on Computational Intelligence, Data Mining Symposium, Honolulu, Hawaii, April 2007.
- 6th International Workshop on Data Mining in Bioinformatics, 12th ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining, Philadelphia, Aug. 2006.
- 2006 IAPR Workshop Pattern Recognition in Bioinformatics, Hong Kong, Aug. 2006
- IEEE International Conference on Mechatronics and Automation, Luoyang, Henan, China, June 2006.
- The 38th Symposium on the Interface of Statistics, Computing Science and Applications, Pasadena, CA, May 2006.
- 9th Workshop on Mining Scientific Datasets, Bethesda, Maryland, April 2006.
- 5th IEEE Symposium on Bioinformatics and Bioengineering, Minneapolis, Minnesota, Oct. 2005.
- IEEE Region 8 EUROCON Int'l Conf. on Computer as a Tool, Belgrade, Serbia, Nov. 2005.
- 4th Int'l Conf. Computational Intelligence in Economics and Finance, special session on Forecasting Volatility in Financial Market, Salt Lake City, Utah, July 2005.
- 2005 IEEE Int'l Conf. Mechatronics and Automation, Niagara Falls, Canada, July 2005.
- Fifth SIAM International Conference on Data Mining, Newport Beach, CA, April 2005.
- Emerging Information Technology Conference, Princeton University, Oct. 2004.
- Fourth SIAM International Conference on Data Mining, Orlando, FL, April 2004.
- Bioinformatics Workshop at the Fourth SIAM International Conference on Data Mining, Orlando, FL, April 2004.
- 3rd Workshop on Bioinformatics in Data Mining (BIOKDD 2003), ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, Washington, DC, August 2003.
- Third SIAM International Conference on Data Mining, San Francisco, CA, May 2003.
- Sixth Workshop on Mining Scientific Dataset, San Francisco, CA, May 2003.
- Second Workshop on Data Mining in Bioinformatics, The Eight ACM SIGKDD Int'l Conf. on Knowledge Discovery and Data Mining, Edmonton, Alberta, Canada, July 2002.
- Int'l Conf. on Neural Networks Applications in Electrical Engineering, Belgrade, Serbia, September 2002.
- Soft Computing in Financial Markets Conference, Int'l Congress on Computational Intelligence Methods and Applications, Rochester Institute of Technology, N.Y., June 1999.
- Distributed and Parallel Data Mining Workshop, Knowledge Discovery in Databases Conference, New York City, N.Y., August 1998.
- 4th Int'l Conf. Neural Networks Applications in Electrical Engineering, Belgrade, Serbia, September 1997.

5.3 Članstvo u uređivačkom odboru međunarodnih naučnih časopisa

Journal Editor-in-Chief:

- *Big Data*, 2018 – Present

Steering Committee Chair:

- *SIAM International Conference on Data Mining*, 2018 – Present

Elected Chair:

- *SIAM Activity Group on Data Mining and Analytics (SIAG/DMA)*, 2014-2015

Journal Executive Editor:

- *Statistical Analysis and Data Mining journal, Executive Editor for Applications*, 2010 – 2018

Journal Editorial Board Member:

- *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2019 - Present
- *IEEE Transactions on Big Data*, 2016 – Present
- *PeerJ Computer Science*, 2015 – Present
- *Management*, 2013 – Present
- *PeerJ*, 2012 – Present
- *Intrinsically Disordered Proteins*, 2012 – 2017
- *Network Modeling and Analysis in Health Informatics and Bioinformatics*, 2011 - 2017
- *International Journal of Computational Intelligence in Bioinformatics and Systems Biology*, 2009 -Present
- *BioMed Research International* (formerly *Journal of Biomedicine and Biotechnology*), 2008 – Present
- *Statistical Analysis and Data Mining*, 2006 – 2009
- *International Journal of Parallel, Emergent and Distributed Systems*, 2006 - Present
- *International Journal of Data Mining and Bioinformatics*, 2005 – Present
- *Multiple Valued Logic and Soft Computing*, 1995 – Present
- *International Journal of Computational Models and Algorithms in Medicine*, 2009 – 2014
- *Advances in Bioinformatics*, 2008 – 2012
- *IEEE Trans. on Education*, 1997- 2001
- *Journal of Computational Intelligence in Finance*, 1995 - 1999

5.4 Autor međunarodne naučne monografije

Naučni radovi publikovani kao poglavlja u knjigama (sa recenzijom):

1. Xie, H., Obradovic, Z. and Vucetic, S. (2009) "Mining of Microarray, Proteomics, and Clinical Data for Improved Identification of Chronic Fatigue Syndrome," chapter 9 in McConnell, P, Lim, S., and A.J. Cuticchia, *Methods of Micorarray Data Analysis VI*. (Scotts Valley, California: CreateSpace Publishing, 2009), pp. 119-127.
2. Xie, H., Midic, U., Vucetic, S. and Obradovic, Z. (2008) "Algorithmic Methods for the Analysis of Gene Expression Data," chapter 4 in *Handbook of Applied Algorithms: Solving Scientific, Engineering, and Practical Problems* (eds. A. Nayak and I. Stojmenovic), Willey-IEEE Press, pp. 115-146.
3. Uversky V.N., Radivojac, P., Iakoucheva, L.M., Obradovic, Z. and Dunker, A.K. (2007) "Prediction of Intrinsic Disorder and its Use in Functional Proteomics," chapter 5 in *Methods in Molecular Biology vol. 408: Gene Function Analysis* (ed. M. Ochs), Humana Press Inc., Totowa, N.J.
4. Peng, K. Obradovic, Z. and Vucetic, S. (2006) "Supervised Learning under Sample Selection Bias from Protein Structure Databases," in *Advances in Applied and Computational Mathematics*, Nova Science Publishers, pp. 153-170.
5. Kezunovic, M., Obradovic, Z., Dokic, T., Zhang, B., Stojanovic, J., Dehghanian, P., Chen, P.C., (2017) "Predicting Spatiotemporal Impact of Weather on Power Systems Using Big Data Science," in *Data Science and Big Data: An Environment of Computational Intelligence*, Editors: Pedrycz, W. and Chen, S.M., Springer, pp. 265-299.
6. Harris, P., Mennis, J., Obradovic, Z., Izenman, A., Grunwald, H., Lockwood, B., Jupin J., and Chisholm, L.,(2009) Investigating the Simultaneous Effects of Individual, Neighborhood, and Program Effects on Juvenile Recidivism Using GIS and Spatial Statistics. *Research report, the U.S. Department of Justice, National Institute of Justice*.
7. Han, B., Obradovic, Z. and Vucetic, S. (2008) "Using Statistical Methods to Improve Efficiency and Accuracy of Aerosol Retrievals," Chapter 7 in *Discrete and Computational Mathematics*, Nova Science Publishers, Editors: F. Liu, Gaston M. N'Guerekata, D. Pokrajac, X. Shi, J. Sun, X. Xia, pp. 93-106.
8. Schwartz, I.M., Jones, P.R., Schwartz, D., Obradovic, Z. (2008) "Improving Social Work Through the Use of Technology and Advanced Research Methods," chapter 13 in *Child Welfare Research: Advances for Practice and Policy* (eds. Lindsey, D. and Shlonsky, A.) Oxford, pp. 214-230.
9. Obradovic, Z. and Vucetic, S. (2004) "Challenges in Scientific Data Mining: Heterogeneous, Biased, and Large Sample," a peer reviewed book chapter at *The Next Generation Data Mining* (editors: H. Kargupta, A. Joshi, K. Sivakumar, Y. Yesha), AAAI/MIT Press, pp. 381-401.
10. Drossu, R. and Obradovic, Z. (2000) "Data Mining Techniques for Designing Efficient Neural Network Time Series Predictors," peer reviewed book chapter no. 10 in Cloete, I. and Zurada, J. *Knowledge-Based Neurocomputing*, MIT Press, ISBN 0-262-03274-0, pp. 325-368.

11. Drossu, R. and Obradovic, Z. (1997) "An Analysis of the INFFC Cotton Futures Time Series: Lower Bounds and Testbed Design Recommendations," in Caldwell, B. R., (editor) Nonlinear Financial Forecasting: *The First Nonlinear Financial Forecasting Competition*, Finance & Technology Publishing, pp. 241-261.
12. Drossu, R. and Obradovic, Z. (1996) "Prediction Horizon Effects on Stochastic Modeling Hints for Neural Networks," In P.E. Keller, S.Hashem, L.J. Kangas, and R. T. Kouzes (editors) *Applications of Neural Networks in Environment, Energy, and Health*
13. Drossu, R., Lakshman, T.V., Obradovic, Z. and Raghavendra C.S., (1995) "Single and Multiple Frame Video Traffic Prediction Using Neural Network Models," In Raghavan S.V. and Jain B.N. (editors) *Computer Networks, Architecture and Applications*, Chapman & Hall, 1995, chapter 9, pp. 146-158.
14. Romero, P., Obradovic, Z. and Fletcher J. (2000) "Integration of Heterogeneous Sources of Partial Domain Knowledge," peer reviewed book chapter no. 7 in Cloete, I. and Zurada, J. *Knowledge-Based Neurocomputing*, MIT Press, pp. 217-250.