

## CURRICULUM VITAE

Name	(family) (first) HOSODA Takashi
Present Designation	Professor, Dr. of Engineering (PhD), Kyoto University
Institution	Department of Urban Management, Graduate School of Engineering, Kyoto University (The Former Department of Civil Engineering)
Address	C1-3 Kyotodaigaku-Katsura, Nishikyo-ku, Kyoto 615-8540, JAPAN Tel.+81-75-383-3266, Fax. +81-75-383-3271 e-mail: hosoda.takashi.4w@kyoto-u.ac.jp tshosoda@hotmail.com
Year of Birth	1955
Nationality	Japan
Education	Bachelor Thesis: Civil Engineering, Kyoto University, 1978 Master of Engineering: Civil Engineering, Kyoto University, 1980 Doctor of Engineering: Civil Engineering, Kyoto University, 1990
Professional Career	1983 Research Associate, Dept. of Civil Eng., Hiroshima Univ. 1988 Research Associate, Dept. of Civil Eng., Kyoto Univ. 1992 Lecturer, Dept. of Civil Eng., Kyoto Univ. 1994 Associate Professor, Dept. of Civil Eng., Kyoto Univ. 2002 Professor, Dept. of Civil Eng., Kyoto Univ. 2003 Professor, Dept. of Urban Management, Kyoto Univ. 2005 Chairman of Dept. of Urban Management, Kyoto Univ. 2003-2007 Program Officer (PO) in the Civil Engineering Field, Japan Science and Technology Agency (JST) 2008-2010 International Advisory Committee Member, International Conference on Water and Flood Management (ICWFM) 2009-2010 Executive Board Member, Japan Society of Civil Engineers(JSCE) 2009-2013 Core Member of Global COE Program in Kyoto University “Sustainability / Survivability Science for a Resilient Society Adaptable to Extreme Weather” <a href="http://ars.gcoe.kyoto-u.ac.jp/index.php?id=3">http://ars.gcoe.kyoto-u.ac.jp/index.php?id=3</a> 2012- Program Member, Inter-Graduate School Program for Sustainable Development and Survivable Societies in Kyoto University <a href="http://www.gss.sals.kyoto-u.ac.jp/en/">http://www.gss.sals.kyoto-u.ac.jp/en/</a>
Main Research Subjects	1. Numerical modeling of river flows and river channel processes and its applications to practical problems 2. Fundamental theory of open channel hydraulics 3. Turbulence modeling of complex 3-D flows and its applications in hydraulic engineering field 4. Groundwater flow problems 5. Urban storm drainage modeling 6. Environmental hydrodynamics of the Lake Biwa
Awards	2001 Paper Award in Hydraulic Engineering, Japanese Society of Civil Engineers

## Selections of Scientific Journal Papers and Conference Papers in Recent Years

- Saif, A. and Hosoda, T., Two-dimensional analysis of flow patterns around a single backward-facing step, *International Journal of River Basin Management*, Vol.10, No.2, pp.205-211, 2012.
- Kouchi, Y., Hosoda, T. and Kimura, I., URANS and LES computations of waver of secondary flow on channel flows with triangular roughness on side walls, 3rd Int. Symp. on Shallow Flows, Iowa City, USA, June 4 - 6, 2012.
- Ali S., Hosoda,T. and Kimura, I., UNSTEADY RANS AND LES SIMULATION OF AN IDEAL RANKINE VORTEX DECAY, *Advances in Civil Engineering*, Vol.2012, Article ID 523839, 2012(doi:10.1155/2012/523839).
- Shirai, H., Hosoda, T. and Puay, H.T., Basic characteristics of Tsunami invasion processes over land based on self-similarity distribution analysis, Annual Journal of Hydraulic Engineering, JSCE, Vol.56, 2012 (in Japanese).
- Hosoda, T. and Malembeka, F., Applicability of a Stochastic Model to Thermal Convection Simulation under Conditions of Cooling Period in Lake Biwa, 7th Int. Symp. on Stratified Flows, Rome, Italy, August 22 - 26, 2011.
- Hosoda,T., Shirai, H., Onda, S. and Shibayama, Y., Reproduction of Flood Flow Using Only One Depth-Hydrograph in a River Course -Theoretical Background and Computational Method, Proc. 34 th IAHR World Congress, Brisbane, Australia, 26 June-1 July, 2011.
- Saif, A. and Hosoda, T., Numerical Modeling of Unsteady Flow around a Box Culvert and Its Verification, *Journal of Japan Society of Civil Engineers*, Ser. B1 (Hydraulic Engineering) Vol. 67 No.4 PI199-I204, 2011.
- Jacimovic, N., Ivetic, M. and Hosoda, T., Modeling of dissolved oxygen vertical distribution changes in lakes: Case study of the lake Zavorj in Serbia, Proc. of 4th International Perspective on Water Resources & the Environment, No.00564, National University of Singapore, January 4-6, 2011.
- Kimura, I., Onda, S., Hosoda, T. and Shimizu, Y., Computations of suspended sediment transport in a shallow side-cavity using depth-averaged 2D models with effects of secondary currents, *Journal of Hydro-environment Research, IAHR*, Vol.4, pp.153-161, 2010.
- Hosoda, T. and Malembeka, F., Generation mechanism of typical vertical distributions of dissolved oxygen in the northern part of Lake Biwa, Environmental Hydraulics Vol.1, Christodoulou & Stamou(eds), Taylor & Francis Group, London, pp.385-389, 2010.
- Jacimovic, N., Ivetic, M., Hosoda, T. and Park, H.D., Numerical modeling of dissolved oxygen recovery during aeration in lakes, Environmental Hydraulics Vol.2, Christodoulou & Stamou(eds), Taylor & Francis Group, London, pp.729-734, 2010.
- Hosoda, T., Depletion of dissolved oxygen near the bottom of the northern part of Lake Biwa due to global warming and countermeasures for DO depletion, *Japanese Journal of Multiphase Flow*, Vol.23 No.4, pp.413-419, 2009 (in Japanese).
- Saif, A., Hosoda, T., Onda, S. and Shigemitsu, R.: Relation between sand bar formation and the habitat of "Kamogawa Chidori" in the Kamo River, Kyoto, River, International Conference on Coastal and Estuarine Morphodynamics, RCEM2009, Santa Fe, Argentina, pp.549-554, 2009.
- Kimura, I., Hosoda, T., Takimoto, S., Shimizu, Y.: RANS computations on curved open channel flows, *Journal of Hydrosience and Hydraulic Engineering, JSCE*, Vol.27, No.2, pp.29-47, 2009.
- Kishida, K., Mgaya, P., Ogura, K. and Hosoda, T.: Flow on a single rock fracture in the shear process and the validity of the cubic law examined through experimental results and numerical simulations, *Soils and Foundations, JGS*, Vol.49, No.4, pp.597-610, 2009.
- Kimura, I., Uijtewaal, W. S. J., Hosoda, T. and Ali, M.S.: URANS Computations of Shallow Grid Turbulence, *Journal of Hydraulic Engineering, ASCE*, Vol.135, No.2, pp.118-131, 2009.
- Hosoda, T., Isono, T. and Malembeka, F. P.: Some considerations on numerical experiments of thermal convection in the northern part of lake Biwa by means of stochastic model, CD-Proc. of International Symposium on Turbulence, Heat and Mass Transfer 6, Rome, Italy, 2010.
- Onda, S., Hosoda, T., Kimura, I. and Iwata, M.: Numerical simulation on local scouring around a spur dike using various turbulence and sediment transport models, *Journal of Hydrosience and Hydraulic Engineering, JSCE*, Vol.26, No.1, pp.73-89, 2008.
- Jacimovic, N., Hosoda, T., Ivetic, M. and Kishida, K.: A novel approach in numerical simulation of contaminant

- removal by air sparging, *Water Science & Technology: Water Supply, IWA*, Vol.7, No.3, pp.163-170, 2007.
- Ali, M.S., Hosoda, T. and Kimura, I.: A nonlinear k-e model to predict the spatial change of turbulent structures in large scale vortices, *J. Applied Mech, JSCE*, Vol.10, pp.723-732, 2007.
- Puay, H.T. and Hosoda, T.: Study of characteristics of inertia and viscous flow regions by means of dam break flow with finite volume, *J. Applied Mech, JSCE*, Vol.10, pp.757-768, 2007.
- Ghimire, B., Hosoda, T. and Nakashima, S.: An investigation on lateral intrusion process of water into porous media under different upstream boundary conditions, *J. Applied Mech, JSCE*, Vol.10, pp.839-846, 2007.
- Anh, T.N. and Hosoda, T.: Depth averaged model of open channel flows over an arbitrary 3D surface and its applications to analysis of water surface profile, *Journal. of Hydraulic Engineering, ASCE*, Vol.133, No.4, pp.350-360, 2007.
- Hosoda, T.: Thermal Convection during Cooling Period in the Northern Part of Lake Biwa, Proc. of the International Workshop for Lake Observation Systems LOS-2006, pp.95-100, 2006.
- Onda, S., Hosoda, T., Uchida, T. and Jacimovic, N.: Numerical simulation of unsteady flood flows with unknown boundary conditions, Proc. of the 7th international conf. HYDROINFORMATICS 2006, Vol.3, pp.1619-1626, 2006.
- Kimura, I., Hosoda, T. and Onda, S. : Predictions of turbulent flows around a bridge pier using various numerical models, River Flow 2006, Ferreira, Alves, Leaf & Cardoso (eds), 767-775, 2006.
- Hosoda, T: Fundamental characteristics of high velocity flows in a sinuous meandering channel in the vicinity of resonance, River Flow 2006, Ferreira, Alves, Leaf & Cardoso (eds), 209-218, 2006.
- Jacimovic, N., Hosoda, T., Kishida, K. and Ivetic, M.: Numerical Simulation of Contaminant Removal during Air Sparging, *Annual J. of Hydraulic Engineering, JSCE* , Vol.51, pp.13-18, 2007.2.
- Ashiq, M., Doering, J.C. and Hosoda, T.: Bed-load transport model on fractional size distribution, *Canadian Journal of Civil Engineering*, 33, pp.69-80, 2006.
- Nagata, N., Hosoda, T., Nakato, T. and Muramoto, Y.: Three-dimensional numerical model for flow and bed deformation around river hydraulic structures, *Journal of Hydraulic Engineering, ASCE*, Vol.131, No.12, pp. 1074-1087, 2005.
- Onda, S. and Hosoda, T.: Numerical simulation on development processes of micro scale sand waves and flow resistance, *Journal of Hydrosience and Hydraulic Engineering, JSCE*, Vol.23, No.1, pp.13-26, 2005.
- Hosoda, T. and Hosomi, T.: A simplified model for long term prediction on vertical distribution of water qualities in Lake Biwa, Sustainable Development of Energy, Water and Environmental Systems, Afgan, Bogdan & Duic(eds), Swets & Zeitlinger, Lisse, ISSN 90 5809 662 9, pp.357-365, 2004.
- Kimura, I. and Hosoda, T: A non-linear k-e model with realizability for prediction of flows around bluff bodies, *International Journal for Numerical Methods in Fluids*, Vol.42, 813-837, 2003.
- Kokado, T., Hosoda, T. and Miyagawa, T.: Study on a method of obtaining rheological coefficients of high-flow concrete with numerical analysis, *Concrete Library of JSCE*, Vol.38, pp.51-70, 2001.
- Nagata, N., Hosoda, T., and Muramoto, Y.: Numerical analysis of river channel processes with bank erosion, *Journal of Hydraulic Engineering, ASCE*, Vol.126, No.4, 243-252, 2000.
- Hosoda, T., Sakurai, T., Kimura, I. and Muramoto, Y.: 3-D computations of compound open channel flows with horizontal vortices and secondary currents by means of non-linear k-e model, *Journal of Hydrosience and Hydraulic Engineering, JSCE*, Vol.17, No.2, 87-96, 1999.
- Kimura, I. and Hosoda, T.: Numerical simulation of tidal vortices in the Naruto Straits, CD-Proc. of the 28th Congress of the International Association for Hydraulic Research, Graz, Austria, 6p, 1999.
- Kokado, T., Hosoda, T. , Miyagawa, T. and Fujii, M.: Study on a method of obtaining yield values of fresh concrete from slump flow test, *Concrete Library of JSCE*, No.32, 29-42, 1998.
- Kimura I. and Hosoda T.: Fundamental properties of flows in an open channel with a rectangular dead zone, *Journal of Hydraulic Engineering, ASCE*, Vol.123, No.2, 98-107, 1997.

<b>ИМЕ И ПРЕЗИМЕ: Takashi Hosoda</b>	
<b>РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА</b>	више од 70 штампаних радова
<b>РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА</b>	више од 100 радова саопштених на међународним скуповима
<b>РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ</b>	Професор Hosoda је један од водећих светких истраживача у области вода, а посебно у областима рачунске хидраулике, нумеричких метода, хидраулике отворених токова, као и моделирања турбуленције. Између осталих функција, био је и руководиоца департамента за грађевинарство на престижном Kyoto Универзитету. Истраживања којима се бави, мултидисциплинарног су карактера и повезују инжењерство са другим дисциплинама и наукама.
<b>ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА</b>	више од 200 цитата