MEHMET ÖZGER
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Istanbul Technical University, Maslak, 34469, Istanbul Turkey,
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FIELDS OF SPECIAL COMPETENCE

- Modern modeling techniques (Fuzzy logic, Artificial Neural Networks)
- Optimization techniques (Genetic algorithms)
- Wave energy conversion
- Ocean engineering
- Hydrology and hydraulic analyses
- Drought analysis and stochastic modeling
- Fluid mechanics

EDUCATION

- *Texas A&M University*, Visiting Scholar, College Station, TX, (November, 2007-current)

- *Istanbul Technical University*, Maslak, Istanbul (May 2007)
  Ph.D. Water Resources Engineering; "wave energy prediction and stochastic modelling" emphasis

- *Istanbul Technical University*, Maslak, Istanbul (June 2001)
  M.S. Civil Engineering; "flood damage calculation by using fuzzy logic" emphasis

- *Istanbul Technical University*, Maslak, Istanbul (June 1999)
  B.S. Civil Engineering

PROFESSIONAL EXPERIENCE

- *Research Assistant for Istanbul Technical University* (November 2002 to present)

TECHNICAL AND SOCIAL ACTIVITIES

- "World Engineers Organisation" delegate to "Scientific and Technological Community to the Twelfth Session of the Commission on Sustainable Development (CSD12) United Nations, 19 - 30 April 2004 Harnessing Science and Technology for Sustainable Development: Water, Sanitation and Human Settlements."
- Organization comitee member, IV. National Hydrology Congress, İTÜ Civil Engineering Faculty, 23-25 June, 2005 İstanbul, Turkey
- The first "International Resource Modeling Projects Workshop" occured at the Cooperative Monitoring Center, Amman (CMC Amman), Oct. 30-Nov. 3, 2006, cooperation with Sandia National Laboratories (SNL)
- Stakeholders Meeting of the Euphrates Tigris Initiative for Cooperation (ETIC), held in Bahçeşehir University in Istanbul, between the dates of September 11-14, and in Şanlıurfa, where you will tour various water facilities, between the dates of September 15- 17, 2007 .

PUBLICATIONS

- Özger, M. 2009. Comparison of fuzzy inference systems for streamflow prediction, accepted, HSJ-2944.
- Özger, M, Mishra, A.K. and Singh, V.P. 2009. Low frequency drought variability associated with climate indices, Journal of Hydrology, 364 (1-2), 152-162.
- Özger, M, Mishra, A.K. and Singh, V.P. 2008. Long lead time drought forecasting using a wavelet and fuzzy logic combination model, Journal of Geophysical Research, submitted
- Özger, M, and Sen Z. 2008. Return period and risk calculations for ocean wave energy applications, Ocean Engıneering, 35 (17-18), 1700-1706.
- Özger, M. and Yıldırım, G. 2008. Determining turbulent flow friction coefficient using adaptive neuro-fuzzy computing technique, Advances in Engineering Software, doi:10.1016/j.advengsoft.2008.04.006.
- Kucukmehmetoglu, M., Özger, M. and Şen, Z. 2008. Assessing the nature of coalition among riparian countries via fuzzy logic: The Case of the Euphrates and Tigris Rivers, J Water Res. Plan. Mang., submitted
- Ozger, M. and Sen, Z. 2007. Triple diagram method for the prediction of wave height and period, Ocean Engineering, 34 (7), 1060-1068; **Times cited: 0**
- Sen, Z., Altunkaynak, A. and Özger, M. 2006. Space-time Interpolation by Combining Air Pollution and Meteorologic Variables, Pure and Applied Geophysics, 163 (7), 1435-1451; **Times cited: 0**
- Uyumaz, A., Altunkaynak, A. and Özger, M., 2006. Fuzzy Logic Model for Equilibrium Scour Downstream of a Dam's Vertical Gate, J. Hydraul. Engrg., ASCE, 132 (10), 1069-1075; **Times cited: 0**
- Özger, M. and Şen, Z. 2006. Prediction of wave parameters by using fuzzy logic approach, Ocean Engineering, 34 (3-4), 460-469; **Times cited: 3**
- Altunkaynak, A. and Özger, M. 2005. Spatial Significant Wave Height Variation Assessment and Its Estimation, Journal of Waterway, Port, Coastal and Ocean Engineering, 131(6), 277-282; **Times cited: 0**
- Altunkaynak, A., Özger, M. and Şen, Z. 2005. Regional Streamflow Estimation by Standard Regional Dependence Function Approach, J. Hydraulic Engineering, 131(11), 1001-1006; **Times cited: 1**
- Altunkaynak, A., Özger, M. and Çakmakcı, M. 2005. Fuzzy logic modeling of the dissolved oxygen fluctuations in Golden Horn , Ecological Modelling, 189(3-4), 436-446; **Times cited: 2**
- Altunkaynak, A., Özger, M. and Çakmakcı, M. 2005. Water Consumption Prediction of Istanbul City by Using Fuzzy Logic Approach, Water Resources Management, 19(5), 641 – 654; **Times cited: 0**
- Altunkaynak, A. and Özger, M. 2004. Temporal significant wave height estimation from wind speed, Ocean Engineering, 31(10), 1245-1255; **Times cited: 6**
- Sen, Z., Altunkaynak, A. and Özger, M. 2004. Sediment concentration and its prediction by Perceptron Kalman Filtering procedure, J. Hydraul. Engrg., ASCE, 130(8), 816-826; **Times cited: 4**
- Sen, Z., Altunkaynak, A. and Özger, M. 2004. ENSO Templates and streamflow prediction, J. of Hydrol. Engrg., ASCE, 9(5), 368-374; **Times cited: 2**
- Özger, M., Altunkaynak, A. and Sen, Z. 2004. Stochastic wave energy calculation formulation, Renewable Energy, 29 (10), 1747–1756 ; **Times cited: 2**
- Özger, M., Altunkaynak, A. and Sen, Z. 2004. Statistical investigation expected wave energy and its reliability, Energy Conv and Management, 45(13-14), 2173-2185; **Times cited: 2**
- Sen, Z., Saud, A.A., Altunkaynak, A. and Özger, M. 2003 Increasing water supply by mixing of fresh and saline ground waters. J. Amer. Water Res. Assoc., 39(5), 1209-1215; **Times cited: 0**

- Sen, Z., Altunkaynak, A. and Özger, M. 2003. Autorun persistence of hydrologic design, J. of Hydrol. Engrg., ASCE, 8(6), 329-338; **Times cited: 3**
- Altunkaynak, A, Özger, M. and Sen, Z. 2003. Triple diagram model of level fluctuations in Lake Van, Turkey, Hydrology and Earth Sys. Scien., 7(2), 235-244; **Times cited: 5**

COMPUTER SKILLS

- Programming: MATLAB

- Spreadsheets and data management systems: Excel, Access,

- Word Processing: Microsoft Word, WordPerfect

- Other: MATLAB, AutoCAD, SPSS,

REFERENCES

- Zekai Şen, Prof. Dr. Istanbul Technical University, e-mail: zsen@itu.edu.tr
- Necati Ağıralioğlu, Prof. Dr., Istanbul Technical University, e-mail: necati@itu.edu.tr

PERSONAL INFORMATION

Citizenship: Turkey
Date of Birth: April 01, 1978