

Resume of
Mohammad Abdolhosseini

Mohammad has born in Iran in Sep. 1979. He is currently a Ph.D. student of Water Engineering Department, Isfahan University of Technology, Isfahan, Iran. Having a special interest in application of new methods in water resources, here he is working on his thesis about multivariate frequency analysis of hydrologic events. In this manner, he has planned to use the new Copulas concept for multivariate analysis. His supervisor is Prof. Saeid Eslamian. Since March 2010, he is in his sabbatical leave in Italy and continues his research under supervision of Prof. Salvatore Grimaldi, GEMINI Department, Tuscia University, Viterbo, Italy. He has worked on river engineering and stable alluvial channels in his previous research as his M.Sc. thesis under supervision of Dr. Hossein Afzalimehr.

Full Mailing address

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Educations

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| 2006 - Present | <i>Ph.D. in Water Engineering</i>
Isfahan University of Technology, Isfahan, Iran
Thesis: "Multivariate Frequency Analysis of Hydrologic Events using Copula
for both Stationary and Nonstationary Conditions"
Supervisor: Prof. Saeid Eslamian |
| 2003 - 2005 | <i>M.Sc. in Irrigation & Drainage</i>
Isfahan University of Technology, Isfahan, Iran
Thesis: "Stable Channel Design"
Supervisor: Associate Prof. Hossein Afzalimehr |
| 1998 - 2002 | <i>B.Sc. in Irrigation & Drainage</i>
Isfahan University of Technology, Isfahan, Iran |
| 1997 | <i>Diploma in Mathematics and Physics</i>
National Organization for Development of Exceptional Talents,
Shahid Qodusi Center, Qom, Iran |
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Membership

- Iranian Rainwater Catchment Systems Association <http://www.ircsa.ir>
- Iranian National Committee on Irrigation and Drainage. <http://www.irncid.org>
- Agriculture and Natural Resources Engineering Organization <http://www.agri-eng.com>
- Irrigation & Drainage Research Group. <http://www.soilwaterplant.com>

Member of Technical Board

- Executive Secretary of “Turbulence Workshop” which held in Isfahan University of Technology, Iran by Collaboration of Water Engineering Department and Tehran British Council, Dec. 2005

Honors

- Have the scholarship of “Ministry of Science, Research and Technology” for an academic position in “Gorgan University of Agricultural Sciences and Natural Resources”.
- Participate in the Latsis Foundation 1st International Summer School about Environment: Climate, Climate Change, Impacts, that was held in Athens, July 2009, by collaboration of Aristotle University of Thessaloniki and National Observatory of Athens.
<http://latsissummerschoolclimate.geo.auth.gr>

Journal Papers - ISI

- Afzalimehr, H., **M. Abdolhosseini** and V.P. Singh (2010) “Hydraulic Geometry Relations for Stable Channel Design”, Journal of Hydrologic Engineering, ASCE. Posted ahead of print (4 May 2010), [http://dx.doi.org/10.1061/\(ASCE\)HE.1943-5584.0000260](http://dx.doi.org/10.1061/(ASCE)HE.1943-5584.0000260)
- Afzalimehr, H., V.P. Singh and **M. Abdolhosseini** (2009) “Effect of Nonuniformity of Flow on Hydraulic Geometry Relations”, Journal of Hydrologic Engineering, ASCE, 14(9):1028-1034.

Conference Papers

- Hasanzadeh H., S. Eslamian, **M. Abdolhosseini** and S. Grimaldi (2010) “Application of L-moments for Estimation of Quantile Mixtures”, International Workshop Advances in Statistical Hydrology, May 23-25, Taormina, Italy.
http://www.stahy.org/LinkClick.aspx?fileticket=7Lb2x_TjoMM%3d&tabid=83
- **Abdolhosseini, M.**, H. Hasanzadeh and S. Eslamian (2010) “Estimation of velocity profile of flow using probability distribution and L-moments”, 8th International Conference on River Engineering, Shahid Chamran University, Ahvaz, Iran, in Persian.

- **Abdolhosseini, M.**, H. Afzalimehr and B. Mostafazadeh (2006) “Presentation of Regime Equations for Kaaj River”, 7th International Conference on River Engineering, Chahid Chamran University, Ahvaz, Iran, in Persian.
- **Abdolhosseini, M.**, H. Afzalimehr and B. Mostafazadeh (2006) “Study of Green-space Channel Conditions in Isfahan (Sheikh-Bahaei Canals)”, 1st Conference on Perfect Using of Water Resources in Karun and Zayanderud Watersheds, Shahrekord University, Sharekord, Iran, in Persian.
- **Abdolhosseini, M.** and H. Afzalimehr (2006) “Comparison Between Discharge Estimation Methods Using Velocity Measurements in the Field”, 2nd Conference on Water and Soil Resources, Shahid Bahonar University, Kerman, Iran, in Persian.
- **Abdolhosseini, M.** and M. M. Kefayati (2006) “SEQUENCE for Visualizing Natural Attenuation”, 2nd Conference on Water and Soil Resources, Shahid Bahonar University, Kerman, Iran, in Persian.
- **Abdolhosseini, M.**, H. Afzalimehr, M. Heidarpour and H. Farshi (2005) “Effect of Roughness Scale in Nonuniform Flow through Gravel and Cobble Channels”, 3rd National Conference on Erosion and Sediment, Tehran, Iran, in Persian.
- Afzalimehr, H., M. Keikhai, A. Motamedi and **M. Abdolhosseini** (2005) “Compare of Empirical Equations of Bed-load Estimation in Large Size Grain Alluviums”, 3rd National Conference on Erosion and Sediment, Tehran, Iran, in Persian.
- Mahdavi, R., J. Abedi Koupai and **M. Abdolhosseini** (2004) “Identifying Suitable Places for Artificial Recharge of Groundwater Resources by RS and GIS, Case study: Shahreza, Isfahan”, 2nd National Student Conference on Water and Soil Resources, Shiraz, Iran, in Persian.
- Abedi Koupai J., **M. Abdolhosseini** and F. Changizi (2003) “Consideration of the Problems in One of the Irrigation Networks in Centre of Iran”, 3rd National Wide Conference for Irrigation Students and Graduates, Sari, Iran, in Persian.

Research Interests

- Frequency Analysis of Hydrological Events
- Copulas, Univariate L-moments & Multivariate L-moments
- Mathematical Modelling of Hydrological Events
- Regionalization of Flood, Low Flow, Rainfall, Wind & Water Quality
- Global Warming, Climate Parameter Variability & Climate Changes
- Effect of Land Uses & Urbanization on Runoff, Evapotranspiration & Climate Change
- Risk Analysis of Natural Hazards
- Watershed Management using GIS & RS
- Optimization, Genetic Algorithm, Artificial Neural Network

Software Experiences

- **General Operating Systems:** Microsoft Windows (Expert)
- **Water Computer Packages:** HYFA, HEC-RAS, FREQ, CROPWAT, DSSAT
- **Programming Languages:** PASCAL, BASIC, MATLAB, R
- **Geographic and Mapping:** SURFER
- **Statistical Packages:** SPSS, SAS, R
- **Microsoft Office:** Word, Excel, PowerPoint
- **Graphics:** Adobe Photoshop

Language Skills

- **English:** Good Knowledge
- **Italian:** Basic Knowledge
- **Persian:** Native, First Language

Referees

Professor Saeid Eslamian

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Professor Hossein Afzalimehr

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Professor Salvatore Grimaldi

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Assist. Professor Andrea Petroselli

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