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مسئولیت (سمت):	عضو هیات علمی و مدیر گروه مدیریت کمی و کیفی حوضه‌های آبریز
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Brief Biography:
PhD in Irrigation and Drainage Engineering from Isfahan University of Technology with the subject of PhD thesis: "Investigation of Water Allocation in Zayandeh-Rud Dams under Climate Change Considering the Optimization of Water Resources and Consumptions", has nearly 30 articles in prestigious scientific journals, consulted about 15 master's theses and Doctoral dissertation in the field of water sciences.
Fields of Expertise and Research Interests:
Climate Change, Water Resources Management
Educational Record:
B.Sc.: Irrigation Science, Isfahan University of Technology, 2006
M.Sc.: Irrigation and Drainage Engineering, Isfahan University of Technology, 2008
Ph.D.: Irrigation and Drainage Engineering, Isfahan University of Technology, 2014
Work Experiences and positions:
Head of watersheds quantity and quality management research group Member of the Editorial Board of the International Journal of Hydrology Science and Technology
Achievements, Awards and Scholarships:
Best researcher of Water Research Institute in 2020

خلاصه شرح حال علمی:
فارغ‌التحصیل مقطع دکتری مهندسی آبیاری و زهکشی از دانشگاه صنعتی اصفهان با موضوع رساله دکتری «بررسی تخصیص آب سد زاینده‌رود تحت تأثیر تغییرات اقلیمی با نگرش به بهینه‌سازی منابع و مصارف آب». دارای نزدیک به ۳۰ مقاله در مجلات معتبر علمی و راهنمایی و مشاوره نزدیک به ۱۵ پایان‌نامه کارشناسی ارشد و رساله دکتری در حوزه علوم آب
حوزه فعالیت‌ها و علاقه‌مندی‌های تخصصی:
تغییر اقلیم، مدیریت منابع آب
سوابق تحصیلی:
کارشناسی: علوم و مهندسی آبیاری، دانشگاه صنعتی اصفهان، ۱۳۸۵
کارشناسی ارشد: مهندسی آبیاری و زهکشی، دانشگاه صنعتی اصفهان، ۱۳۸۸
دکتری: مهندسی آبیاری و زهکشی، دانشگاه صنعتی اصفهان، ۱۳۹۴
سوابق علمی و اجرایی:
مدیر گروه مدیریت کمی و کیفی حوضه‌های آبریز موسسه تحقیقات آب عضو هیات تحریریه مجله International Journal of Hydrology Science and Technology
دستاوردها و جوایز:
پژوهشگر برتر موسسه تحقیقات آب در سال ۱۳۹۸

Memberships:
Patents and Publications:
<ol style="list-style-type: none"> 1. Zareian, M.J., 2021. Groundwater withdrawal adjustment based on changes in groundwater balance components (a case study: an arid region in central Iran), <i>Arabian Journal of Geosciences</i>, 14: 1822 2. Zareian, M.J., 2021. Optimal water allocation at different levels of climate change to minimize water shortage in arid regions (Case Study: Zayandeh-Rud River Basin, Iran). <i>Journal of Hydro-environment Research</i>, 35, pp.13-30. 3. Gheysari, M., Pirnajmedin, F., Movahedrad, H., Majidi, M.M. and Zareian, M.J., 2021. Crop yield and irrigation water productivity of silage maize under two water stress strategies in semi-arid environment: Two different pot and field experiments. <i>Agricultural Water Management</i>, 255, p.106999. 4. Ostad-Ali-Askari, K., Ghorbanizadeh Kharazi, H., Shayannejad, M. and Zareian, M.J., 2020. Effect of climate change on precipitation patterns in an arid region using GCM models: case study of Isfahan-Borkhar Plain. <i>Natural Hazards Review</i>, 21(2), p.04020006. 5. Jeihouni, E., Mohammadi, M., Eslamian, S. and Zareian, M.J., 2019. Potential impacts of climate change on groundwater level through hybrid soft-computing methods: a case study-Shabestar Plain, Iran. <i>Environmental monitoring and assessment</i>, 191(10), pp.1-16. 6. Jeihouni, E., Eslamian, S., Mohammadi, M. and Zareian, M. J., 2019. Simulation of groundwater level fluctuations in response to main climate parameters using a wavelet-ANN hybrid technique for the Shabestar Plain, Iran. <i>Environmental Earth Sciences</i>, 78(10): 25-42. 7. Ostad-Ali-Askari, K., Ghorbanizadeh Kharazi, H., Shayannejad, M. and Zareian, M.J., 2019. Effect of management strategies on reducing negative impacts of climate change on water resources of the Isfahan-Borkhar aquifer using MODFLOW. <i>River Research and Applications</i>, 35(6), pp.611-631. 8. Amini, M.A., Torkan, G., Eslamian, S., Zareian, M.J. and Adamowski, J.F., 2019. Analysis of deterministic and geostatistical interpolation techniques for mapping meteorological variables at large watershed scales. <i>Acta Geophysica</i>, 67(1), 191-203. 9. Gheysari, M., Sadeghi, S.H., Loescher, H.W., Amiri, S., Zareian, M.J., Majidi, M.M., Asgarinia, P. and Payero, J.O., 2017. Comparison of deficit irrigation management strategies on root, plant growth and biomass productivity of silage maize. <i>Agricultural Water Management</i>, 182: 126-138. 10. Zareian, M.J. and Eslamian, S., 2016. Variation of water resources indices in a changing climate. <i>International Journal of Hydrology Science and Technology</i>, 6(2): 173-187. 11. Gheysari, M., Loescher, H.W., Sadeghi, S.H., Mirlatif, S.M., Zareian, M.J. and Hoogenboom, G., 2015. Water-yield relations and water use efficiency of maize under nitrogen fertigation for semiarid environments: experiment and synthesis. <i>Advances in agronomy</i>, 130: 175-229. 12. Zareian, M.J., Eslamian, S. and Safavi, H.R., 2015. A modified regionalization weighting approach for climate

عضویت در مجامع علمی و صنعتی:
انتشارات و اختراعات:
<ol style="list-style-type: none"> 1. Zareian, M.J., 2021. Groundwater withdrawal adjustment based on changes in groundwater balance components (a case study: an arid region in central Iran), <i>Arabian Journal of Geosciences</i>, 14: 1822 2. Zareian, M.J., 2021. Optimal water allocation at different levels of climate change to minimize water shortage in arid regions (Case Study: Zayandeh-Rud River Basin, Iran). <i>Journal of Hydro-environment Research</i>, 35, pp.13-30. 3. Gheysari, M., Pirnajmedin, F., Movahedrad, H., Majidi, M.M. and Zareian, M.J., 2021. Crop yield and irrigation water productivity of silage maize under two water stress strategies in semi-arid environment: Two different pot and field experiments. <i>Agricultural Water Management</i>, 255, p.106999. 4. Ostad-Ali-Askari, K., Ghorbanizadeh Kharazi, H., Shayannejad, M. and Zareian, M.J., 2020. Effect of climate change on precipitation patterns in an arid region using GCM models: case study of Isfahan-Borkhar Plain. <i>Natural Hazards Review</i>, 21(2), p.04020006. 5. Jeihouni, E., Mohammadi, M., Eslamian, S. and Zareian, M.J., 2019. Potential impacts of climate change on groundwater level through hybrid soft-computing methods: a case study-Shabestar Plain, Iran. <i>Environmental monitoring and assessment</i>, 191(10), pp.1-16. 6. Jeihouni, E., Eslamian, S., Mohammadi, M. and Zareian, M. J., 2019. Simulation of groundwater level fluctuations in response to main climate parameters using a wavelet-ANN hybrid technique for the Shabestar Plain, Iran. <i>Environmental Earth Sciences</i>, 78(10): 25-42. 7. Ostad-Ali-Askari, K., Ghorbanizadeh Kharazi, H., Shayannejad, M. and Zareian, M.J., 2019. Effect of management strategies on reducing negative impacts of climate change on water resources of the Isfahan-Borkhar aquifer using MODFLOW. <i>River Research and Applications</i>, 35(6), pp.611-631. 8. Amini, M.A., Torkan, G., Eslamian, S., Zareian, M.J. and Adamowski, J.F., 2019. Analysis of deterministic and geostatistical interpolation techniques for mapping meteorological variables at large watershed scales. <i>Acta Geophysica</i>, 67(1), 191-203. 9. Gheysari, M., Sadeghi, S.H., Loescher, H.W., Amiri, S., Zareian, M.J., Majidi, M.M., Asgarinia, P. and Payero, J.O., 2017. Comparison of deficit irrigation management strategies on root, plant growth and biomass productivity of silage maize. <i>Agricultural Water Management</i>, 182: 126-138. 10. Zareian, M.J. and Eslamian, S., 2016. Variation of water resources indices in a changing climate. <i>International Journal of Hydrology Science and Technology</i>, 6(2): 173-187. 11. Gheysari, M., Loescher, H.W., Sadeghi, S.H., Mirlatif, S.M., Zareian, M.J. and Hoogenboom, G., 2015. Water-yield relations and water use efficiency of maize under nitrogen fertigation for semiarid environments: experiment and synthesis. <i>Advances in agronomy</i>, 130: 175-229. 12. Zareian, M.J., Eslamian, S. and Safavi, H.R., 2015. A modified regionalization weighting approach for climate

change impact assessment at watershed scale. *Theoretical and Applied Climatology*, 122(3), pp.497-516.

13. Eslamian, S.S., Gohari, S.A., **Zareian, M.J.** and Firoozfar, A., 2012. Estimating Penman–Monteith reference evapotranspiration using artificial neural networks and genetic algorithm: a case study. *Arabian Journal for Science and Engineering*, 37(4), pp.935-944
14. **Zareian, M.J.**, Eslamian, S., Safavi, H. R., Eslamian, A., 2015. Effect of Climate Change on Reference Evapotranspiration Based on Weighting Methods, 4th Climate Change Technology Conference, Montreal, Canada.
15. **Zareian, M.J.**, Eslamian, S., Hosseini-pour, E. Z., 2014, Climate Change Impacts on Reservoir Inflow Using Various Weighting Approaches. World Environmental and Water Resources Congress, Portland, USA.
16. **Zareian, M.J.**, Eslamian, S. and Ostad-Ali-Askari, K., 2019. Global Warming and Sustainable Development: Restrictions in the Face of Climate Change in Zayandeh-Rud River Basin, Iran. *Encyclopedia of Sustainability in Higher Education*, pp.778-790.
17. **Zareian, M.J.** and Eslamian, S., 2019. Using of optimization strategy for reducing water scarcity in the face of climate change. In *Climate Change-Resilient Agriculture and Agroforestry* (pp. 317-331). Springer, Cham.
18. Gohari A., **Zareian M.J.**, Eslamian, S and Nazari, R., 2017, Inter-basin Transfers of Water for Zayandeh-Rud Basin, In: *Handbook of Drought and Water Scarcity (HDWS)*, Taylor & Francis Group Publisher, pp. 619-629.
19. Eslamian, S. S., Safavi, H. R., Gohari, A., Sajjadi, M., Raghbi, V. and **Zareian, M.J.** 2017, Climate Change Impacts on Some Hydrological Variables in the Zayandeh-Rud River Basin, Iran, *Handbook of Reviving the Dying Giant*, Springer International Publishing, pp. 201-217.
20. **Zareian, M. J.**, Eslamian, S., Gohari, A., Adamowski, J., 2017, The Effect of Climate Change on Watershed Water Balance, *Handbook of Mathematical Advances Towards Sustainable Environmental Systems*, Springer Press, Dordrecht, Germany, pp. 215-238.
21. Gohari, A., **Zareian, M.J.** and Eslamian, S., 2015. A multi-model framework for climate change impact assessment. *Handbook of climate change adaptation*, pp.1-16.

change impact assessment at watershed scale. *Theoretical and Applied Climatology*, 122(3), pp.497-516.

13. Eslamian, S.S., Gohari, S.A., **Zareian, M.J.** and Firoozfar, A., 2012. Estimating Penman–Monteith reference evapotranspiration using artificial neural networks and genetic algorithm: a case study. *Arabian Journal for Science and Engineering*, 37(4), pp.935-944
14. **Zareian, M.J.**, Eslamian, S., Safavi, H. R., Eslamian, A., 2015. Effect of Climate Change on Reference Evapotranspiration Based on Weighting Methods, 4th Climate Change Technology Conference, Montreal, Canada.
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16. **Zareian, M.J.**, Eslamian, S. and Ostad-Ali-Askari, K., 2019. Global Warming and Sustainable Development: Restrictions in the Face of Climate Change in Zayandeh-Rud River Basin, Iran. *Encyclopedia of Sustainability in Higher Education*, pp.778-790.
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19. Eslamian, S. S., Safavi, H. R., Gohari, A., Sajjadi, M., Raghbi, V. and **Zareian, M.J.** 2017, Climate Change Impacts on Some Hydrological Variables in the Zayandeh-Rud River Basin, Iran, *Handbook of Reviving the Dying Giant*, Springer International Publishing, pp. 201-217.
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