Mojtaba Mehraein
Assistant Professor of Hydraulic Structures
Kharazmi University, Tehran-Iran

Curriculum Vitae

Personal	Name: Birth:	Mojtaba Mehraein 1980, Lahijan, Iran
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Educational	2006-2011	PhD, Hydraulic Structures Engineering, Tarbiat Modares University, Tehran, Iran.
M.Sc. Thesis	Title:	Experimental Study of Hydraulic Jump on Negative Step.
	Supervisor:	Prof. S.A.A Salehi Neyshaboury, Tarbiat Modares University, Tehran, Iran
PhD thesis	Title:	Experimental study on scour and flow field due to simultaneous wall and impinging jet.
	Supervisor:	Prof. Masoud Ghodsian, Tarbiat Modares University, Tehran, Iran

Research Interests

- Turbulence of water jets and open channel flow
- Local scour around hydraulic structures
- Hydraulic modeling and river engineering

Publications

1. Mehraein, M., Ghodsian, M. "Tailwater effect on scour by wall jets" 4th national congress of civil engineering, Tehran university, 2008.
2. Moghim, N, Mehraein, M and Ghodsian, M. "Estimating the scour hole dimensions by ANN Algorithm" 4th national congress of civil engineering, Tehran university, 2008.
3. Mehraein, M., Ghodsian, M. "Experimental study of wall jet scouring" 3rd Iran Water Resources Management Conference, Tabriz, Iran 2008.
4. Ghodsian, M., Mehraein, M. "Experimental study of scouring by free falling jets" design criteria manual, Power Ministry of Iran, 2008.
5. Ghodsian, M., Mehraein, M. "Experimental study of local scouring around hydraulic structures" design criteria manual, Iran Power ministry, 2008.
6. Mehraein. M, Ghodsian. M and Salehi Neyshaboury. S. A. A. " Effect of inclination of wall jet on scour" 33IAHR congress, 2009.

7 Mehraein, M., Ghodsian, M. and Ranjbar, H.R (2011)" Uniformity effect on scour hole dimensions due to free falling jets " Journal of Civil and Surveying Engineering , University of Tehran, 44(2), 253-264.

8 Mehraein, M., Ghodsian. M and Salehi Neyshaboury. S. A. A. (2010)"Local scour due to inclined circular wall jet." Proceedings of ICE, Journal of water management, 164(3), 111 –122

9 Mehraein, M., Ghodsian, M. (2010). “Scour formation due to 3D wall jet." Journal of Hydraulic, Tarbiat Modares University,4(4), 51-69.

10 Mehraein, M., Salehi Neyshaboury. S. A. A. (2011). “Hydraulic jump study on negative steps by using PIV.” Journal of civil and surveying engineering, University of Tehran, 45(1), 87-97.

11 Mehraein, M., Ghodsian. M and Schleiss. A. "Experimental study on scour due to simultaneous wall and impinging circular jet.” 34IAHR congress, 2011.

12 Mehraein, M., Ghodsian. M and Schleiss. A. (2012). "Scour due to simultaneous wall jet and impinging jet." Journal of hydraulic research, 50(4), 395-399.

13 Mehraein, M., Ghodsian. M. and Ranjbar, H.R. (2012). “Sediment degradation effect on scour due to free falling jet.” Scientia iranica, 19(6), 1437-1444.

14 Mehraein, M., Ghodsian. M. (2013). “Discussion of Experimental Studies on Flow over Labyrinth Weir by B. V. Khode, A. R. Tembhurkar, P. D. Porey, and R. N. Ingle.” Journal of irrigation drainage engineering, 139(12), 1056-1056.

15 Anari, R., Ghodsian, M. and Mehraein, M. (2013). “Numerical simulation of impinging confined jet.” International conference on civil engineering, architecture and urban sustainable development,Tabriz, Iran.

16 Godarzi, M., Ghodsian, M. and Mehraein, M. (2013). “Discharge coefficient of inclined labyrinth weir.” International conference on civil engineering, architecture and urban sustainable development, Tabriz, Iran.

17 Sangsefidi, Y., Ghodsian, M. and Mehraein, M. (2013) “Flow over arced labyrinth weir.” International conference on civil engineering, architecture and urban sustainable development, Tabriz, Iran.

18 Godarzi, M., Sangsefidi, Y., Ghodsian, M. and Mehraein, M. “Discharge of arced labyrinth weir.” XII Iranian national hydraulic conference, Tehran, Iran, 2013.

19 Sangsefidi, Y., Ghodsian, M. and Mehraein, M. “Numerical study on discharge coefficient of arced labyrinth weirs.” XVIII Conference on hydraulics, water resources, coastal and environmental engineering. Madras, India, 2013.

20 Sangsefidi, Y., Mehraein, M. and Ghodsian, M. (2015). “Discharge coefficient of arced weir.” Journal of civil engineering, Tarbiat Modares University, 15(2), 51-63.

21 Mehraein, M., Ghodsian., M., Noorbakhsh, M. (2015) “Flow structure around a submerged T shaped spur dike in straight channel.” Journal of civil engineering, Tarbiat Modares University, 15(3), 171-178.

22 Mehraein, M., Ghodsian. M. (2013). “Discussion of Experimental Studies on Flow over Labyrinth Weir by B. V. Khode, A. R. Tembhurkar, P. D. Porey, and R. N. Ingle.” Journal of irrigation drainage engineering, 139(12), 1056-1056.

23 Mehraein, M. (2015). “Discussion of New Stage-Discharge Relationship for Weirs of Finite Crest Length” by M. Bijankhan, C. Di Stefano, V. Ferro, and S. Kouchakzadeh” Journal of irrigation drainage engineering, 141(9), DOI: 10.1061/(ASCE)IR.1943-4774.0000886

24 Mehraein, M., Ghodsian. M. (2015). “Comments on ‘Discharge coefficient of rectangular sharp crested side weirs part I: Traditional weir equation’ by Bagheri, Kabiri-Samani, AR, and Heidarpour, M.” DOI: 10.1016/j.flowmeasinst.2015.06.013

25 Mehraein, M. “Discussion of "Effects of Jet Flipping on Local Scour Downstream of a Sluice Gate by C. Xie and S.Y Lim” Journal of hydraulic engineering, Accepted for publication, 2015.

26 Sangsefidi, Y., Mehraein, M. and Ghodsian, M. (2015) “Discharge coefficient of arced weir.” Journal of civil engineering, Tarbiat Modares University, 15(2), 51-63.

27 Sangsefidi, Y., Mehraein, M. and Ghodsian, M. "Numerical simulation of flow over labyrinth spillways" Scientia iranica, Accepted for publication, 2015.

28 Goodarzi, M., Ghodsian, M., Mehraein, M. "Effect of Upstream Slope of Labyrinth Spillway on Discharge Coefficient." Journal of civil engineering, Tarbiat Modares University, Accepted for publication, 2015.

More Activities

Tarbiat Modares University

1. Research Assistant (2009, 2010)
2. Postdoctoral Researcher (2012)

EPFL (École Polytechnique Fédérale de Lausanne)

1. Researcher (2010)

Kharazmi University

1. Static
2. Hydraulic
3. Hydrology
4. River Engineering
5. Fluvial hydrodynamics
6. Groundwater flow
7. Advanced hydraulic