Last Updated: June 2019

Personal Details

Name :	Anisul Haque
Date of birth:	June 2, 1962
Nationality:	Bangladeshi
Present address:	Professor, IWFM, BUET, Dhaka-1000, Bangladesh.
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Qualifications

Ph.D	February	1994	Department of Civil Engineering, K.U. Leuven, Belgium.
M.Sc	August	1989	Dept. of WRE., BUET, Dhaka, Bangladesh.
B.Sc	June	1986	Department of Civil Engineering, BUET, Dhaka, Bangladesh

Professional career positions

August	2005	-		Present	Professor	IWFM, BUET
February	1999	-	July	2005	Associate Professor	IWFM, BUET
April	1994	-	January	1999	Assistant Professor	IWFM, BUET
February	1987	-	March	1994	Lecturer	IWFM, BUET

Key areas of expertise

1. Marine and Estuarine Processes.
2. Delta Dynamics.
3. Flow and Transport Processes.
4. Computational Fluid Dynamics.
5. Numerical Techniques and Modeling.
6. Basic Hydraulics.
7. Risk Analysis

Key active/past research project involvement

1. Study on the economics of waterlogging in southern Bangladesh
2. ESPA-Delta Continuation Project
3. Contribution plan to support the Bangladesh Delta Plan and REACH objectives with ΔDIEM simulations
4. Research on the Morphological processes under Climatic Changes, Sea Level Rise and Anthropogenic Intervention in the Coastal Zone
5. Roads to the Rescue: Systematically Engaging Roads for Flood Resilience
6. Deltas, vulnerabilities and Climate Change: Migration and Adaptation (DECCMA).
7. Ecosystem Services and Poverty Alleviation (ESPA).
8. Research on Storm surge and Flood Disaster Prevention/Mitigation in Bangladesh (JICA-JST).
9. Development of mathematical model for rivers and estuaries.
10. Numerical Modeling for Non-cohesive and Cohesive Sediment Transport
11. Modeling of density induced flow.
12. Effects of coastal phenomena due to extreme hydrologic and hydraulic events.
13. Experimental and theoretical study of local scour.

14. Impact of Climate and Sea Level Change in part of Indian Sub-Continent (CLASIC)

Thesis Supervised (Ph.D, M.Sc and PG. Dip.)

1. Development of an integrated river bank erosion management framework in tidal plain (Ph.D)
2. Salinity hazard assessment in coastal area of Bangladesh (M.Sc)
3. Determination of critical risk due to storm surges in the coastal zone of Bangladesh (M.Sc)
4. Impacts of dynamic interaction between astronomical tides and monsoon wind on coastal flooding in Bangladesh (M.Sc)
5. Morphological changes in channels due to cyclone generated hydrodynamic shock (M.Sc)
6. Quasi real time prediction of storm surge inundation for the coastal region of Bangladesh (M.Sc)
7. Flood damage and risk assessment model in the haor basin of Bangladesh (M.Sc)
8. Environmental impact due to change in geometric characteristics of the Kapataksha River (M.Sc)
9. Seasonal variation of fish migration in Sariakandi fish pass (M.Sc)
10. Changes of environmental parameters due to salinity intrusion in the southwest region of Bangladesh (M.Sc)
11. Development of a sustainable livelihood security model for storm surge hazard in coastal area of Bangladesh (M.Sc)
12. Analytical simulation of dynamic interdependency between economy and lotic ecology at the meandering river basin (M.Sc)
13. Performance evaluation of Sariakandi fish pass (PG. Dip)
14. Effect of land use change on geometric characteristics of the Buriganga river (PG.Dip.)

Courses currently taken in post graduate teaching

1. Alluvial River Processes
2. Hazards and Risk Analysis
3. Coastal Zone Management
4. Urban Disaster and Risk Management

Journal publications

1. Akter, R., Asik, T.Z., Sakib, M., Akter, M., Sakib,. M.N., Al Azad, A.S.M., Maruf, M., **Haque, A.** and Rahman, M. (2019), The dominant climate change event for salinity intrusion in the GBM delta, Climate, 2019, 7, 69, doi: 10.3390 / cli7050069, https://www.mdpi.com/2225-1154/7/5/69/pdf

2. Adnan, M.S.G, **Haque, A.** and Hall, J.W. (2019), Have coastal embankments reduced flooding in Bangladesh ?, Science of the Total Environment, https://doi.org/10.1016/j.scitotenv.2019.05.048

3. Kabir, R., Akter, M., Karim, D.S., **Haque, A.**, Rahman, M., Sakib, M. (2019), Development of a matrix based statistical framework to compute weight for composite hazards, vulnerability and risk assessments, Climate 2019, 7, 56; doi:10.3390/ cli7040056, https://www.mdpi.com/2225-1154/7/4/56/pdf

4. Akter, M., Jahan, M., Kabir, R., Karim, S., **Haque, A.**, Rahman, M. and Salehin, M. (2019), Risk assessment based on fuzzy synthetic evaluation method, Science of the Total Environment, 658 (2019), 818-829, https://doi.org/10.1016/j.scitotenv.2018.12.204

5. Al Azad, A.S.M.A., Mita, K.S., Zaman, M.W., Akter, M., Asik, T.Z., **Haque, A.**, Hussain, M.A., Rahman, M.M. (2018), Impact of tidal phase on inundation and thrust force due to storm surge, Journal of Marine Science and Engineering, 2018, 6, 110; doi:10.3390/jmse6040110.

6. Mondal, S.M., Islam, A.K.M, **Haque, A.**, Islam, M.R., Biswas, S. and Mahmud, K. (2018), Assessing high-end climate change impacts on floods in major rivers of Bangladesh using multi-model simulations, Global Science and Technology Journal, Vol.6, No.2, June 2018, pp. 1-14, http://www.gstjpapers.com/

7. Rahman, M., Dustegir, M., Karim, R., **Haque, A.**, Nichols, R.J., Darby, S.E., Nakagawa, H., Hossain, M., Dunn, F.E. and Akter, M. (2018), Recent sediment flux to the Ganges-Brahmaputra-Meghna delta system, Science of the Total Environment 643 (2018) 1054–1064, https://doi.org/10.1016/j.scitotenv.2018.06.147

8. Brown, S., Nicholls, R.J., Lazar, A.N., Hornby, D., Hill, C., Hazra, S., Addo, K. A., **Haque, A.**, Caesar, J. and Topkins (2018), What are the implications of sea level rise for a 1.5, 2 and 3^0C rise in global mean temperatures in the Ganges-Brahmaputra-Meghna and other vulnerable deltas ? Regional Environmental Change, https://doi.org/10.1007/s10113-018-1311-0

9. Jahan, M., Kabir, R., Chowdhury, M.A., **Haque, A.**, Rahman, M. (2017), Evaluating the inter-dependency among different adaptive capacity indicators of cyclonic hazard, Journal of Modern Science and Technology, Vol.5, No.1, September 2017, pp. 102-109.

10. Payo, A., A.N. Lazar, D. Clarke, R.J. Nichols, L. Bricheno, S. Mashfiqus and **A. Haque** (2016), Modelling daily soil salinity dynamics in response to agricultural and environmental changes in coastal Bangladesh, Earth's Future, 5, doi 10.1002/2016EF000530.

11. Payo, A., Mukhopadhyay, A., Hazra, S., Ghosh, T., Ghosh, S., Brown, S., Nicholls, R., Bricheno, L., Wolf, J., Kay, S., Lazar, A., **Haque, A**. (2016), Projected changes in area of the Sundarban mangrove forest in Bangladesh due to SLR by 2100, Climate Change, DOI 10.1007/s10584-016-1769-z, August 2016.

12. Mutahara, M., **Haque, A**., Khan, M.S.A., Warner, J.F., Wester, P. (2016), Development of a sustainable livelihood security model for storm surge hazard in the coastal areas of Bangladesh, Stochastic Environmental Research and Risk Assessment, DOI 10.1007/s00477-016-1232-8, Springer, Published Online 18 March 2016.

13. **Haque, A**., Sumaiya and Rahman, M.M. (2016), Flow distribution and sediment transport mechanism in the estuarine systems of Ganges-Brahmaputra-Meghna delta, International Journal of Environmental Science and Development, Vol.7, No.1, January 2016.

14. S.Kay, J. Caesar, J. Wolf, L. Bricheno, R.J. Nichols, A.K.M. Saiful Islam, **A. Haque** and A. Pardaens (2015), Modelling the increased frequency of extreme sea levels in the Ganges-Brahmaputra-Meghna delta due to sea level rise and other effects of climate change, Environmental Science: Processes and Impacts, 2015, **DOI:** 10.1039/C4EM00683F.

15. Islam, A.S., Bala, S.K. and **Haque, A.** (2010), Flood Inundation Map of Bangladesh using MODIS Time Series Images, Journal of Flood Risk Management, Vol.3, Issue 3, pp. 210-222, September 2010.

16. Nazimuddin, M., **Haque. A.** and Salequzzaman, M. (2010), A Bio-Physical Relationship: Biodiversity with Salinity, Journal of Subtrop. Agric. Res. Div. 8(3): pp.794-799, June 2010.

17. Nazimuddin, M. and **Haque, A.** (2010), Salinity Response in Southwest Coastal Region of Bangladesh due to Hydraulic and Hydrologic Parameters, Int. Journal of Sustain. Agril. Tech. 6(3): pp. 1-7, March 2010.

18. Islam, A.K.M., **Haque, A.** and Bala, S.K. (2010), Hydrologic Characteristics of Floods in Ganges-Brahmaputra-Meghna (GBM) Delta, Nat. Hazards (2010) 54:797-811, March 2010.

19. Sarker, L.K., Hossain, M.M. and **Haque, A.** (2007), Incipient motion of different size fractions in non-uniform sediments of smaller grain sizes, ISH Journal of Hydraulics, India, Vol.12, No.1, September 2007.

20. Sarker, L.K., Hossain, M.M. and **Haque, A.** (2007), Shear Stress for Initiation of Motion of Non-uniform Sediment Mixtures, International Journal of Sediment Research, Vol.22, No.3, September 2007.

21. **Haque, A.**, Rahman, M.M., Islam, T and Hussain, A.M. (2007), Scour mitigation at bridge piers using sacrificial piles, International Journal of Sediment Research, Vol.22, No.1, March 2007.

22. Salehin, M., **Haque, A.**, Rahman, R., Khan, M.S.A. and Bala, S.K. (2007), Hydrological aspects of 2004 floods in Bangladesh, Journal of Hydrology and Meteorology, Vol.4, No.1, March 2007.

23. Rahman, M.M, Nakagawa, H, Ito, N, **Haque, A**, Islam, T, Rahman, R and Hoque, M. (2006), Prediction of local scour depth around bundle-like structures, Annual Journal of Hydraulic Engineering, JSCE, Vol.50., February 2006.

24. **Haque, A.** (2005), A semi-implicit finite element method for tidal flow modeling, Journal of Indian Water Resources Society, Vol.25, No.1, 2005.

25. Rahman, M.M., Nakagawa, H. and **Haque, A**. (2004), Scouring around spur-dikes in alluvial floodplain rivers, Annual Journal of Hydraulic Engineering, JSCE, Vol.48., February 2004.

26. Rahman, M.M. and **Haque, A.** (2004), Local scour at slopped-wall spur-dike-like structures in alluvial rivers, Technical Note, Journal of Hydraulic Engineering, ASCE, Vol. 130, No.1, pp. 70-74, January 2004.

27. Rahman, M.M. and **Haque, A.** (2003), Local scour estimation at bridge site : Modification and application of Lacey formula, International Journal of sediment Research, Vol.18, No.4, 2003.

28. **Haque, A.** and Kabir, M.R. (2002), Application of a turbulent stress-flux model in the Lower Meghna estuary, Bangladesh Journal of Water Resource Research, Vol.19, pp.1-17, December 2002.

29. Rahman, M.M., **Haque, A**. and Hoque, M.M. (2002), Applicability of the bend development theory in natural alluvial river, International Journal of Sediment Research, Vol. 17, No.3, pp. 210-218, September 2002.

30. Rahman, M.M. and **Haque, A.** (2002), Flow field and the maximum local scour depth around piers and abutments, Journal of Indian Water Resources Society, Vol.22, No.3, pp. 117-124, July 2002.

31. **Haque, A.** and Berlamont, J. (1998), Modelling density and turbulence in stratified tidal medium, Journal of Hydraulic Engineering, ASCE, Vol.124, No.2, pp.135-145, February 1998.

Book Chapters

1. **Haque, A.** and Nichols, R.J. (2018), Floods and the Ganges-Brahmaputra-Meghna delta, Ecosystem Services for Well-Being in Deltas, R. J. Nicholls et al. (eds.), Palgrave Macmillan, UK, London, Springer Nature, https://doi.org/10.1007/978-3-319-71093-8_8.

2. **Haque, A.**, Kay, S. and Nichols, R.J. (2018), Present and future fluvial, tidal and storm surge flooding in coastal Bangladesh, Ecosystem Services for Well-Being in Deltas, R. J. Nicholls et al. (eds.), Palgrave Macmillan, UK, London, Springer Nature, https://doi.org/10.1007/978-3-319-71093-8_8.

3. Hussain, M. A., Hossain, M. A. and **Haque, A.** (2012), "Hydro-meteorological Impact on Residual Currents and Salinity Distribution at the Meghna Estuary of Bangladesh", Coastal Environments: Focus on Asian Regions, V. Subramanian (Ed.), Jointly published by Springer and Capital Publishing Company, ISBN 978-90-481-3001-6, 2012.

4. Hoque, M.M., Bala, S.K., Ahmed, S.M.U., **Haque, A**. and Mamun, S.A. (2002), Impact of the 1998 flood on the morphology of rivers around bridges, Engineering Concerns of Flood, Ed. M. Ashraf Ali et al., pp. 201-212, BUET, Dhaka, August 2002.

5. **Haque A**., Salehin, M. and Chowdhury, J.U. (2002), Effects of coastal phenomena on the 1998 flood, Engineering Concerns of Flood, Ed. M. Ashraf Ali et al., pp. 241-251, BUET, Dhaka, August 2002.

6. Hoque, M.M. and **Haque, A.** (1994), Finite element computer model for salinity intrusion in estuaries, Proceedings of 9th Congress of the Asian and Pacific Division, IAHR, H. Cheong et al. eds., Vol.3, pp.286-291, August 1994.

7. **Haque, A**. and Berlamont, J. (1994), A finite element model for density induced flow, Advances in Hydro-Science and Engineering, Sam S.Y. Wang (ed.), Vol.1, pp.690-696, June 1994.

8. Choudhury, J.U. and **Haque, A**. (1990), Permissible water withdrawal based upon prediction of salt-water intrusion in the Meghna delta, The Hydrological Basis for Water Resources Management, IAHS publication no.197, U.Shamir and C.Jiaqi eds., pp. 111-117, October 1990.

Conference Proceedings

1. Tahsin, A., Razzaque, S., Newton, I.H., **Haque, A.**, Saleh, A.F.M., Mamtaz, R., Hasan, I., Cosoveanu, F.S. and Borgia, C. (2019), Impact of Internal Road Network on Water-Logging inside Polders, Book of Abstracts, 7th International Conference on Water and Flood Management (ICWFM), 2-4 March 2019, Dhaka, Bangladesh.

2. Mita, K.S., Al Azad, A.S.M.A., Zaman, W.M., Sakib, M., Amin, R., Asik, T.Z., **Haque, A.**, Rahman, M. (2018), Effectiveness of adaptive measures against storm surge hazard based on field experience from a real time cyclone in Bangladesh coast, Proceedings of 2nd International Conference on Sustainable Development, Institute of Development Studies and Sustainability, United International University, Dhaka, Bangladesh, July, 2018.

3. Asik T.Z., Al-Azad A.S.M.A., Akter R., Sakib M., **Haque A.**, and Rahman M., (2018), Generating a Plausible Future of Salinity Intrusion due to Mora-Like Cyclone along the Coast of Bangladesh, 21st Congress of International Association for Hydro-Environment Engineering and Research (IAHR), Asia Pacific Division (APD), 2-5 September, Yogyakarta, Indonesia.

4. Kabir, R., Jahan, M., Akter, M., Tasnim, N., **Haque, A.** and Rahman, M. (2018), Spatio-temporal variability of vulnerability in Bangladesh coast by using Fuzzy Synthetic Evaluation Method, Proceedings of the 21st IAHR-APD Congress, 2018, Yogyakarta, Indonesia.

5. Mita, K.S., Azad, A.A., Zaman, M.W., Sakib, M., Amin, G.M.R, Asik, T.Z., **Haque, A**., Rahman, M.M. (2018). Effectiveness of Adaptive Measures against Storm Surge Hazard based on Field Experience from a Real Time Cyclone in Bangladesh Coast. 2nd UIU International Conference on Sustainable Development, Dhaka, Bangladesh, 2018.

6. Saddam, H., Ansary, M., Akter, M., **Haque, A**., Rahman, M. (2018), Geotechnical stability coastal polder of Bhola district in Bangladesh coast against cyclonic storm surges using PLAXIS, 2nd UIU International Conference on Sustainable Development, Dhaka, Bangladesh, 2018.

7. Dustegir, M, Islam, R., Rahman, M., **Haque, A.**, Karim, R., Amin, R., Rahman, L, Hossain, M., Nakagawa, H. and Hasegawa, Y., Historical evolution of channel shifting and its response to traditional bank protection work along a reach of the sand bed braided Jamuna / Brahmaputra, E-proceedings of the 37th IAHR World Congress, August 13 – 18, 2017, Kuala Lumpur, Malaysia.

8. Akter, M., **Haque, A.**, Rahman, M., Alim, M.A. (2017), Development of a dynamic force model to compute distributive thrust force due to storm surge, 6th International Conference on Water and Flood Management (ICWFM-2017), March 4-5, 2017, BUET, Dhaka, Bangladesh

9. Jahan, M., Kabir, R., **Haque, A.** and Rahman, M. (2017), Comparative analysis of socio-economic vulnerability in two coastal districts of Bangladesh, 6th International Conference on Water and Flood Management (ICWFM-2017), March 4-5, 2017, BUET, Dhaka, Bangladesh

10. Jahan, M., Kabir, R., Karim, S., **Haque, A.** and Rahman, M., Comparative analysis of hazards and risk for the Bangladesh coast, 6th International Conference on Water and Flood Management (ICWFM-2017), March 4-5, 2017, BUET, Dhaka, Bangladesh

11. Akter, R., Sakib, M., Sakib, M.N., Zaman, S., **Haque, A.**, Rahman, M. and Hossain, D. (2017), Assessment of salinity hazard based on residence time of salinity in Bangladesh coast, 6th International Conference on Water and Flood Management (ICWFM-2017), March 4-5, 2017, BUET, Dhaka, Bangladesh

12. Kabir, R., Sakib, M., Jahan, M., **Haque, A.** and Rahman, M. (2017), Socio-economic vulnerability assessment due to storm surge hazard in Bangladesh coast, 6th International Conference on Water and Flood Management (ICWFM-2017), March 4-5, 2017, BUET, Dhaka, Bangladesh

13. Sakib, M., Nihal, F., Akter, R., Maruf, M., Akter, M., Noor, S., Rimi, R., **Haque, A.**, Rahman, M. (2016), Afforestation as a buffer against storm surge flooding along the Bangladesh coast, 12 International Conference on Hydroscience & Engineering, Hydro-Science and Engineering for Environmental Resilience, November 6-10, 2016, Taiwan.

14. Akter R., Sumaiya S., Rahman M., Ahmed T., Sakib M., **Haque A.**, Rahman M. M., (2016). Prediction of Salinity Intrusion due to Sea Level Rise and Reduced Upstream Flow in the GBM Delta. 20th Congress of the Asia Pacific Division of the International Association for Hydro Environment Engineering & Research, August - 28, 29, 30, 31, Colombo, Sri Lanka.

15. Akter, R., Sakib,M., Rahman, Mash., Sumaiya, **Haque, A**., Rahman, Md., Islam, R. (2016), Climatic and Cyclone Induced Storm Surge Impact on Salinity Intrusion along the Bangladesh Coast, Proc. of the 6th Int. Conf. on the application of Physical Modeling in Coastal and Port Engineering and Science (Coastlab16), IAHR, Ottowa, Canada, May 10-13, 2016.
16. Nihal, F., Sakib, F., Noor, S., **Haque, A**., Rahman, M., Elahi, W. and Halder U. (2016), Climatic Impacts on the Fluvial and Tidal Inundation Patterns in the Ganges-Brahmaputra-Meghna Delta, Proc. of 2016 2nd Int. Conf. on Disaster Management and Civil Engineering (ICDMCE '2016), Kyoto, Japan, April 12-13, 2016, pp. 1-6.

17. Elahi, M.W.E., **Haque, A.**, Rahman, M., and Husna, N. (2015), "Impacts of coastal floodplain sedimentation on net subsidence in the Ganges-Brahmaputra-Meghna delta", International Conference on Recent Innovation in Civil Engineering for Sustainable Development (IICSD-2015), December. 2015, pp. 1032-1038 (2015).

18. Nihal, F., Sakib, M., Elahi, W., **Haque, A**., Rahman, M., Rimi, R. (2015), Sidr Like Cyclones in Bangladesh Coast, Proc. of 2nd International Conf. on Environment, Technology and Energy, Colombo, Sri Lanka, 22-23 November, 2015.

19. Sakib, M., Nihal, F., **Haque, A.**, Rahman, M. and Ali, M. (2015), Sundarban as a buffer against storm surge flooding, World Journal of Engineering and Technology, 2015, 3, 59-64.

20. Rahman, M., **Haque, A.**, Nicholls, R., Jisan, M.A., Nihal, F., Ahmed, I. and Lazar, A.N. (2015), Storm surge flooding in the Ganges-Brahmaputra-Meghna delta: Present and Future Scenarios, e-proceedings of 36th IAHR World Congress, 28 June – 3 July, 2015, The Hague, the Netherlands.

21. Sumaiya, **Haque, A.** , Rahman, M., Elahi, W., Ahmed, I., Rimi, R.A., Alam, S. (2015), Modeling salinity extremes in Bangladesh coast, Proc. of 5th International Conference on Water and Flood Management (ICWFM 2015), Dhaka, Bangladesh, pp. 259-266, 2015.

22. Ali, M.R, Sumaiya, Alam, S., Ahmed, I., Ahmed, H., Kadir, M.N., Siddique, K.B., Jisan, M.N., **Haque, A** and Rahman, M. (2014), "Computation of discharge and flow volume for different flooding scenario in the Lower Meghna estuary", *Proceedings* in the 2nd International Conference on Civil Engineering for Sustainable Development (ICCESD-2014), 14-16 February, 2014, KUET, Khulna, Bangladesh.

23. **Haque, A**, Rahman, M., Alam, S., Sumaiya, Ahmed, I., Sarker, M.H., Nicholls, R.J, Darby, S., Chowdhury, S.M., Siddique, K.B., Ahmed, H., Ali, M.R, Ghosh, T. (2013), "Relationship between the shapes and hydraulic regimes of the estuaries of the Ganges-Brahmaputra-Meghna delta", Proceedings in the International Conference on Climate Change Impact and Adaptation, 15-17 November, 2013, DUET, Gazipur, Bangladesh.

24. Rahman, M., **Haque, A**., Siddique, K.B., Ali, M.R., Ahmed, H., Nicholls, R.J., Darby, S., Wolf, J., Sarker, M.H., Alam, S., Ahmed, I., Sumaiya,, Hossain, M.A.R., Ahmed, M., Bricheno, L.M., Torres, R., Chowdhury, S.M., Ghosh, T. (2013), A preliminary assessment of the impact of fluvio-tidal regime on Ganges-Brahmaputra-Meghna delta and its impact on the ecosystem resources", International Conference on Climate Change Impact and Adaptation, 15-17 November, 2013, DUET, Gazipur, Bangladesh.

25. Mutahara, M., **Haque, A.** and Philippus Wester (2013), "Livelihood System and Challenge of Living in the Coast: A case study in the South-West Coastal Area of Bangladesh", 4th International Conference on Water and Flood Management, ICWFM 2013, 4-5 October 2013, Dhaka, Bangladesh.

26. S. Hossain, **Haque, A**., B. Bhattacharya , M.F.A, Khan , M. Maswood (2013), "Flood Damage and Risk Assessment Model in the Haor Basin of North- East Region in Bangladesh", 4th International Conference on Water and Flood Management, ICWFM 2013, 4-5 October 2013, Dhaka, Bangladesh.

27. S.Paul, Islam, A.K.M.S., Salehin, M. and **Haque, A**. (2013), "Flow Pattern Analysis in Haor Areas Using Delft3D", 4th International Conference on Water and Flood Management, ICWFM 2013, 4-5 October 2013, Dhaka, Bangladesh.

28. Mohiuddin, F.A. and **Haque, A.** (2013), "An Overview of Socio-Economic Implications of River Bank Erosion Management in the Deltaic Plain of Bangladesh", 4th International Conference on Water and Flood Management, ICWFM 2013, 4-5 October 2013, Dhaka, Bangladesh.

29. Bhattacharya, B., Suman, A., **Haque, A**., Khan, M.F.A., Maswood, M. (2013), "Flood Characteristics of the Haor Area in Bangladesh", 4th International Conference on Water and Flood Management, ICWFM 2013, 4-5 October 2013, Dhaka, Bangladesh.

30. Hussain, M. A., Khan, M. S. A., **Haque, A.**, Khan, Z.H. and Ahmed, M. M. (2012), Tsunami Hazard Assessment in the Northern Bay of Bengal along the Bangladesh Coast, Proceedings of the International Conference on Civil Engineering for Sustainable Development, 23-24 March, 2012,

KUET, Khulna, Bangladesh, ISBN: 978-984-33-4246-1 (Printed Proceedings of Extended Abstract) pp. 133-134, ISBN: 978-984-33-4247-8 (CD-ROM proceedings of Full Paper).

31. Mutahara, M. and **Haque, A.** (2011), Development of a Sustainable Livelihood Security Model for Storm Surge Hazard in Coastal Area, Proc. of the 3rd International Conf. on Water and Flood Management, Vol. 1, January 8-10, 2011, pp.591-600.

32. Mohiuddin, F.A. and **Haque, A.** (2011), Integrated River Bank Erosion Management: A Concept of Paradigm Shift Towards IWRM, Proc. of the 3rd International Conf. on Water and Flood Management, Vol. 1, January 8-10, 2011, pp.381-392.

33. Ghosh, B.K. and **Haque. A.** (2011), Hydraulic Impact on Fish Migration in Sariakandi Fish Pass of Bangladesh, Proc. of the 3rd International Conf. on Water and Flood Management, Vol. 1, January 8-10, 2011, pp.55-65.

34. Taj, S. and **Haque. A.** (2010), Mathematical Simulation of Dynamic Interdependency between Lotic Ecosystem and Natural River Meandering Evolution Process, Proc. of the 13th Asian Congress of Fluid Mechanics, 13 ACFM, IUT, Dhaka, Bangladesh, 17-21 December 2010, pp. 741-744.

35. Hussain, M.A., Hossain .M.A. and **Haque. A.** (2009)**,** Seasonal Variation of Residual Currents in the Meghna Estuary of Bangladesh, Proc. of the Coastal Dynamics 2009, Ed. Masaru Mizuguchi and Shinji Sato, pp. 1-11, September 2009.

36. Ghosh, B.K. and **Haque, A.** (2007), "Performance evaluation of Sariakandi Fish Pass", Pre-conference Paper Volume of International Conference on Water and Flood Management, IWFM, BUET, Dhaka, March 12-14, 2007.

37. Ghosh, B.K. and **Haque, A.** (2007), "Seasonal variation of fish migration in Sariakandi Fish Pass", 16th Annual general Meeting and National Conference 2007, Zoological Society of Bangladesh, Dhaka, March 30, 2007.
38. Rahman, M.M., Islam, G.M.T., **Haque, A.**, and Khan, M.S.A. (2007), "Development of a Flood Flow Channel Facility and Study of River Bank Stabilization", IWFM, February 2007.

39. Khan, M.S.A, Rahman, R., **Haque, A.**, Rahman, M.M., and Islam G.M.T. (2006), Stormwater Flooding in BUET Campus: A Situation Report, IWFM, March 2006.

40. Rahman, R., **Haque, A.**, Khan, M.S.A., Salehin M., and Bala, S.K. (2005), Investigation of hydrological characteristics of Flood 2004 with special emphasis on Dhaka City, IWFM, December 2005.

41. Rahman, M.M., Nakagawa, H., **Haque, A.** (2005), Islam, T. and Ishigaki, T., "A sustainable solution for the stabilization of navigational channels in floodplain environment", XXXI IAHR Congress, Seoul, Korea, September 11-16, 2005.

42. Rahman, M.M., **Haque, A.**, Nakagawa, H. and Muramoto, Y. (2003), Local scour around spur-dikes in a braided river, Proceedings of the XXX IAHR Congress, AUTh, Thessaloniki, Greece, pp. 777-784, December 2003.

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