

Curriculum Vitae

SHAMSUDDIN SHAHID

Associate Professor

Department of Hydraulics & Hydrology

Faculty of Civil Engineering

Universiti Teknologi Malaysia, 81310 Johor Bahru, Malaysia

Phone: +60 7 5531624

Mobile: +60 182051586

E-mail: sshahid@utm.my

Website: civil.utm.my/sshahid/

H-Index (ISI Thomson-Reuters):10; H-Index (Scopus):12; H-Index (Google Scholar):16

Areas of Specialization

Water Resources Management, Groundwater Hydrology, Hydrological Hazard and Risk, Statistical Hydrology, Climate Variability and Changes.

Education

- **Ph.D., Hydrogeology**, Department of Geology and Geophysics, Indian Institute of Technology (IIT) - Kharagpur, India, 2001.
Thesis Title: Groundwater potential modeling of a soft rock region using GIS based Integrated Geophysical Approach
- **M.Sc., Applied Physics**, Rajshahi University, Bangladesh, 1989
Result: First position in the First Class
- **B.Sc. (Honors), Applied Physics**, Rajshahi University, Bangladesh, 1988
Result: First Class

Teaching/Research Experience

- **Associate Professor**, Department of Hydraulics & Hydrology, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Malaysia
June 2011 – till
Teaching courses: Statistical Hydrology, Groundwater Hydrology
Research: Climate Change Impacts and adaptation to Water Resources and Hydrological processes
- **Senior Lecturer**, Department of Geology, University of Malaya, Malaysia
June 2009 – 2011
Teaching courses: Hydrosphere, Earth System Sciences, Geostatistics.
Research: Climate Change Impacts and adaptation to Water Resources.

- **Georg Foster Fellow of Alexander von Humboldt Foundation**, Department of Geoinformatics, Hydrology and Modelling, Institute of Geography, Friedrich-Schiller-Universität Jena, Germany.
January 2007 – March 2008
 Responsibility: Development of a Participatory Spatial Decision Support System for Integrated Water Resources Management in Poorly Gauged River Basins in the Context of Global Climate Change.
- **Rhodes University Research Fellow**, Rhodes University, South Africa.
January 2006 – October 2006
 Responsibility: Participatory Water Resources Management, Scenario-based Planning, Application of Geoinformation Science in disaster management.
- **Postdoctoral Fellow**, Remote Sensing and GIS, Asian Institute of Technology (AIT), Thailand
January 2005 – December 2005
 Responsibility: Research on Assessment of hydro-environment of Northwestern Bangladesh using Remote Sensing & GIS.
- **Assistant Professor**, Applied Physics, Rajshahi University, Bangladesh
October 2000 – June 2009
 Teaching Hydrogeology, Applied Geophysics, Remote Sensing and GIS, and Computer Programming.
 Research on Droughts, Water Resources Management, Computational Geosciences, GIS and Remote Sensing applications in water resources and Hydrogeophysics.
 Supervision of postgraduate research: Supervised Four Master's Thesis and more than 30 B.Sc. (Honors) research projects.
- **Scientific Officer**, Space Research and Remote Sensing Organization, Bangladesh.
August 1995 – October 2000
 Responsibilities: Applications of Remote Sensing and GIS in Water Resources

Awards/Fellowships/Honors

- **Citra Karisma 2015**: Finalis Anugerah Penulis Jurnal Berindeks
- **Citra Karisma 2014**: Anugerah Perkhidmatan Cemerlang
- **Research Award 2013**, Faculty of Civil Engineering, Universiti Teknologi Malaysia
- **Georg Foster Fellowship** of Alexander von Humboldt Foundation, Bonn, Germany
- **Rhodes University Postdoctoral Research Fellowship 2006**, Rhodes University, South Africa.
- **AIT Postdoctoral Fellowship 2005**, Asian Institute of Technology, Thailand
- **Indian Council for Cultural Relation Fellowship** for Ph.D. in Indian Institute of Technology, Kharagpur, India.
- **Rajshahi University Award**, for best performance in Master of Science
- **University Grant Commission Fellowship**, for performance in Bachelor of Science

Research Projects (Principal Investigator):

On-going:

- THE INFLUENCE OF LARGE-SCALE OCEAN-ATMOSPHERE PHENOMENA ON RIVER DISCHARGE IN MAJOR URBAN WATER SUPPLY CATCHMENTS IN MALAYSIA (PY/2014/03785)
- Modeling Socio-economic interactions with hydrological processes for improved projection of water balance (PY/2014/03239)
- Vulnerability and Adaptation to Climate Change in Groundwater-dependent Irrigation System in Malaysia (PY/2014/02008)

Completed:

- A system dynamic approach for forecasting water demand in urban areas of Malaysia (PY/2014/02002)
- Vulnerability and Adaptation to Climate Change in Groundwater-dependent Irrigation System in Asian Countries (ARCP2013-25NSY-Shahid)
- Statistical Analysis of Climate Data to Assess Climate Change Impacts on Hydrological Extremes and Adaptation Needs in the East Coast of Malaysia (ERGS: PY/2012/00547)
- Modelling the Impacts of Climate Variability and Changes on Groundwater Resources in Tropical Region (UTM GUP: PY/2012/00547)

Co-Investigator

- Impacts of Landuse And Climate Change on River Discharge and Sediment Flux (PY/2013/00014)
- A watershed storage study for understanding the threshold of flood mechanism (PY/2015/05381) FRGS
- Bivariate Frequency Analysis of Flood Variables Using Copula in Kelantan River Basin (PY/2015/04661)
- A coupled hydrologic-hydraulics model to simulate the flood extents and dept in Kelantan River Basin (PY/2015/04480)

PhD research supervision

Awarded

- MORTEZA MOHSENIPOUR (2015)
NITRATE MOVEMENT SIMULATION IN SATURATED POROUS MEDIA IN PRESENCE OF KAOLIN PARTICLES
- HUSSEIN ABED OBAID (2015)
MODELING SEWER OVERFLOW OF A CITY WITH A LARGE FLOAT-ING POPULATIONA

Ongoing

- KAMAL AHMED (201202M10139) – Climate change impacts on droughts in arid region of Pakistan

- MD. MAHIUDDIN ALAMGIR (201302M10373) – Climate change impacts on water scarcity in Bangladesh
- SAHAR HADI POUR(201202F10021) – Statistical downscaling of climate using parametric and non-parametric statistical approaches
- MOHD KHAIRUL IDLAN BIN MUHAMMAD (870224035595) – Climate change impacts on evapotranspiration in tropical region
- MUHAMMAD NOOR (201508M10046) – Drought vulnerability and risk in Pakistan
- ZULFAQAR BIN SA'ADI (860128135175) – Hydrology of peat land

Publications

Book and Book Chapter:

1. Shahid, S., Rahman, M.M., and Keramat, M.M. (2012) Climate Change and Its Impacts on Irrigation and Groundwater Resources: A Case Study of Northwest Bangladesh. Lambert Academic Publishers. pp 118
2. Shahid, S. (2012) Spatial Assessment of Drought Hazard, Vulnerability and Risk in Bangladesh. In: Droughts: New Research (Neves, D.F and Sanz J.D. edited), Nova Science Publishers.
3. Shahid, S. (2012) Rainfall Variability and Changes in Bangladesh during the Last Fifty Years. In: Rainfall: Behavior, Forecasting and Distribution (Martín, O.E. and Roberts, T.M. edited), Nova Science Publishers.
4. **Shahid, S.**, 2003. Assessment of groundwater quality in the Southwestern region of Bangladesh, *Chapter 22: Environment, Pollution and Management*, Edited by A. Kumar, C. Bohra and L.K. Singh, APH: New Delhi, pp. 604.
5. Nath, S.K., Patra, H.P. and **Shahid, S.**, 2000. Geophysical Prospecting for Groundwater. A.A. Balkema: The Netherlands, pp. 254.

Journal Articles:

• **ISI Impact Factor Journals**

1. **Shahid, S.**, Wang, X.-J., bin Harun, S., Shamsudin, S., Ismail, T., Minhans, A. (2015): [Climate variability and changes in the major cities of Bangladesh: observations, possible impacts and adaptation](#). Regional Environmental Change, 1-13, DOI: 10.1007/s10113-015-0757-6. **[IF: 2.628]**
2. Alamgir, M., **Shahid, S.**, Hazarika, M.K., Nashrullah, S., bin Harun, S., Shamsudin, S. (2015): [Analysis of Meteorological Drought Pattern During Different Climatic and Cropping Seasons in Bangladesh](#). JAWRA Journal of the American Water Resources Association, 51(3), 794-806. **[IF: 2.074]**
3. Wang, X.-J., Zhang, J.-Y., **Shahid, S.**, He R.-M., Xia X.-H., Mou X.-L. (2015): [Potential impact of climate change on future water demand in Yulin city, Northwest China](#). Mitigation and Adaptation Strategies for Global Change, 20(1), 1-19, DOI: 10.1007/s11027-013-9476-9. **[IF: 2.669]**
4. Al-Abadi, A.M., **Shahid, S.** (2015): [A comparison between index of entropy and catastrophe theory methods for mapping groundwater potential in an arid region](#). Environmental Monitoring and Assessment, 187(9), 1-21 **[IF: 1.679]**.

5. Obaid, H.A., **Shahid, S.**, Basim, K.N., Chelliapan, S. (2015): [Modeling of wastewater quality in an urban area during festival and rainy days](#). Water Science and Technology, 72(6): 1029-1042; DOI: [10.2166/wst.2015.297](#). **[IF: 1.106]**
6. Wang, X.-J., Zhang, J.-Y., **Shahid, S.**, Bi, S.-H., Yu, Y.-B., He, R.-M., Zhang, X. (2015): [Demand control and quota management strategy for sustainable water use in China](#). Environmental Earth Sciences, 73(11), 7403-7413, DOI: 10.1007/s12665-014-3915-0 **[IF: 1.765]**
7. **Shahid, S.**, Wang, X.-J., Rahman, M.M., Hasan, R., bin Harun, S., Shamsudin, S. (2015): [Spatial Assessment of Groundwater Over-Exploitation in Northwestern Districts of Bangladesh](#). Geological Society of India, 85(4), 463-470. **[IF: 0.513]**.
8. Rad, S., Shamsudin, S., **Shahid, S.**, Taha, M.R. (2015): [Tropical stormwater nutrient degradation using nano TiO₂ in photocatalytic reactor detention pond](#). Water Science and Technology, DOI: [10.2166/wst.2015.297](#). **[IF: 1.106]**
9. Mohsenipour, M., **Shahid, S.**, Ebrahimi, K. (2015): [Nitrate Adsorption on Clay Kaolin: Batch Tests](#). Journal of Chemistry 2015, DOI: 10.1155/2015/397069 **[IF: 0.772]**.
10. Hadi Pour, S., bin Harun, S., **Shahid, S.** (2014): [Genetic Programming for the Downscaling of Extreme Rainfall Events on the East Coast of Peninsular Malaysia](#). Atmosphere, DOI: 10.3390/atmos5040914. **[IF: 1.132]**
11. Jajarmizadeh, M., bin Harun, S., **Shahid, S.**, Akib, S., Salarpour, M. (2014): [Impact of Direct Soil Moisture and Revised Soil Moisture Index Methods on Hydrologic Predictions in an Arid Climate](#). Advances in Meteorology, DOI: [http: 10.1155/2014.156172](#) **[IF: 0.946]**
12. Wang, X.-J., Zhang, J.-Y., **Shahid, S.**, Guan, E.-H., Wu, Y.-X., Gao, J., He, R.-M. (2014): [Adaptation to climate change impacts on water demand](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-014-9571-6. **[IF: 1.856]**
13. Wang, X.-J., Zhang, J.-Y., Ali, M., **Shahid, S.**, He, R.-M., Xia, X.-H., Jiang, Z. (2014): [Impact of climate change on regional irrigation water demand in Baojixia irrigation district of China](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-014-9594-z. **[IF: 1.856]**
14. Ahmed, K., **Shahid, S.**, bn Harun, S., Ismail, T., Nawaz, N., Shamsudin, S. (2014): [Assessment potential zones in an arid region based on catastrophe theory](#). Earth Science Informatics, DOI: 10.1007/s12145-014-0173-3 **[IF: 0.743]**
15. Katimon, A., **Shahid, S.**, Abd Wahab, A. K., & Ali, M. H. (2013). [Hydrological behaviour of a drained agricultural peat catchment in the tropics. 1: Rainfall, runoff and water table relationships](#). Hydrological Sciences Journal, 58(6), 1297-1309. **[IF: 1.114]**
16. Katimon, A., **Shahid, S.**, Abd Wahab, A. K., & Shabri, A. (2013). [Hydrological behaviour of a drained agricultural peat catchment in the tropics. 2: Time series transfer function modelling approach](#). Hydrological Sciences Journal, 58(6), 1310-1325. **[IF: 1.114]**
17. Wang, X.-J., Zhang, J.-Y., **Shahid, S.** et al. (2013) [Historic water consumptions and future management strategies for Haihe River basin of Northern China](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-013-9496-5. **[IF: 1.856]**
18. Wang, X.-J., Zhang, J.-Y., **Shahid, S.** et al. (2013) [Water resources management strategy for adaptation to droughts in China](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-011-9352-4 **[IF: 1.856]**

19. Mohsenipour, M., **Shahid, S.**, Nazemosadat M.J. (2013) [Effects of El Nino-Southern Oscillation on the Discharge of Kor River in Iran](#). Advances in Meteorology, 2013(2013), Arcittle ID: 846397. **[IF: 1.239]**
20. **Shahid, S.** (2012) [Vulnerability of the power sector of Bangladesh to climate change and extreme weather events](#). Regional Environmental Change, 12, 595–606. **[IF: 1.945]**
21. **Shahid, S.**, Harun, S.B., Katimon, A. (2012) [Changes in diurnal temperature range in Bangladesh during the time period 1961–2008](#). Atmospheric Research, 118(15), 260–270. **[IF: 2.20]**
22. Wang, X.-J., Zhang, J.-Y., **Shahid, S.** et al. (2012) [Catastrophe theory to assess water security and adaptation strategy in the context of environmental change](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-012-9443-x. **[IF: 1.856]**
23. Tukimat, N.N.A., Harun, S., **Shahid, S.** (2012) [Comparison of different methods in estimating potential evapotranspiration at Muda Irrigation Scheme of Malaysia](#). Journal of Agriculture and Rural Development in the Tropics and Subtropics, 113(1), 77-85. **[IF: 0.107]**
24. Wang, X.-J., Zhang, J.-Y., Jian-hua, W., Rui-min, H., ElMahdi, A., Jin-hua, L., **Shahid, S.** (2012) [Climate change and water resources management in Tuwei river basin of northwest China](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-012-9430-2. **[IF: 1.856]**
25. **Shahid, S.** (2011) [Impacts of Climate Change on Irrigation Water Demand in Northwestern Bangladesh](#), Climatic Change, 105(3-4), 433-453. **[IF: 3.634]**
26. **Shahid, S.** (2011) [Trends in extreme rainfall events of Bangladesh](#), Theoretical and Applied Climatology, 104(3-4), 489-499. **[IF: 1.759]**
27. Wang, X.-J., Zhang, J.-Y., **Shahid, S.** et al. (2011) [Gini coefficient to assess equity in domestic water supply in the Yellow River](#). Mitigation and Adaptation Strategies for Global Change, DOI: 10.1007/s11027-011-9309-7 **[IF: 1.856]**
28. **Shahid, S.**, Hazarika, M.K. (2010) [Groundwater Droughts in the Northwestern Districts of Bangladesh](#), Water Resources Management, 24(10), 1989-2006. **[IF: 2.259]**
29. **Shahid S.** (2010) [Rainfall variability and the trends of wet and dry periods in Bangladesh](#), International Journal of Climatology, 30(15), 2299–2313. **[IF: 2.886]**
30. **Shahid, S.** (2010) [Probable impacts of climate change on public health in Bangladesh](#), Asia-Pacific Journal of Public Health, 22(3), 310-319. **[IF: 1.057]**
31. **Shahid, S.** (2010) [Recent trends in the climate of Bangladesh](#), Climate Research, 42(3), 185-193. **[IF: 2.684]**
32. **Shahid, S.**, Khairulmaini, O.S. (2009) [Spatio-Temporal variability of Rainfall over Bangladesh during the time period 1969-2003](#), Asia-Pacific Journal of Atmospheric Sciences 45 (3), 375-389. **[IF: 0.869]**
33. **Shahid, S.** (2008) [Spatial and Temporal Characteristics of Droughts in the Western Part of Bangladesh](#), Hydrological Processes, 22(13), 2235-2247. **[IF: 2.497]**
34. **Shahid, S.**, Behrawan, H. (2008) [Drought Risk Assessment in the Western Part of Bangladesh](#), Natural Hazards, 46(3), 391-413. **[IF: 1.639]**
35. **Shahid, S.**, X. Chen, M.K. Hazarika, 2006. [Evaluation of irrigation water quality of Bangladesh using geographic information system](#), Journal of Hydrology and Hydromechanics, 54(1), 3-14. **[IF: 0.653]**

36. **Shahid, S.**, Kamal, A.S.M.M., Nath, S.K. (2002): [GIS integration of remote sensing and topographic data using fuzzy logic for ground water assessment in Midnapur District, India](#). *GeoCarto International*, 17(3), 67-72. **[IF: 0.575]**.
37. **Shahid, S.**, Nath, S.K., and Roy, J. (2000): [Ground water potential modelling in a softrock area using GIS](#). *International Journal of Remote Sensing*, 21(9), 1919-1924. **[IF: 1.138]**
38. Nath, S.K, **Shahid, S.**, Dewangan, P. (2000): [SEISRES – A visual C++ program for the sequential inversion of seismic refraction and geoelectric data](#). *Computers & Geosciences*, 26(2), 177-200. **[IF: 1.834]**
39. **Shahid, S.**, Nath, S.K., Sircar, A. and Patra, H.P. (1999): [Estimation of model parameters from one-dimensional vertical electrical sounding data using evolutionary programming technique](#). *Acta Geophysica*, 47(3), 335-348. **[IF: 0.910]**
40. Nath S.K., and **Shahid, S.** (1999): [Joint application of seismic refraction and vertical electrical sounding data for the delineation of shallow aquifer](#). *Current Science*, 77(12), 1612-1623. **[IF: 0.905]**
41. Salarpour, M., Yusop, Z., Yusof, F., Shahid, S., Jajarmizadeh, M. (2013) [Flood Frequency Analysis Based on t-copula for Johor River, Malaysia](#). *Journal of Applied Sciences*, 13(7), 1021-1028 **[IF: 0]**

- **Scopus Journals**

1. **Shahid, S.**, Minhans, A., Puan, O.C., Hasan, S.A., Ismail, T. (2015): [Spatial and temporal pattern of road accidents and casualties in Peninsular Malaysia](#). *Jurnal Teknologi*, 76(14), 57-65.
2. Ahmed, K., **Shahid, S.**, bin Harun, S. (2015): [Statistical Downscaling of Rainfall in an Arid Coastal Region: A Radial Basis Function Neural Network Approach](#). *Applied Mechanics and Materials*, 735, 190-194.
3. Alamgir, M., **Shahid, S.**, Mohsenipour, M., Ahmed, K. (2015): [Return Periods of Extreme Meteorological Droughts During Monsoon in Bangladesh](#). *Applied Mechanics and Materials*, 735, 186-189.
4. Obaid, H.A., **Shahid, S.**, Basim, K.N., Shreeshivadasan, C. (2015): [Modelling Stormwater Quality of an Arid Urban Catchment](#). *Applied Mechanics and Materials*, 735, 215-219
5. Wang, X.-J., Zhang, J.-Y., **Shahid, S.**, Bi, S.-H., He, R.-M., Xu, Z. (2015): [Assessing water security and adaptation measures in a changing environment](#). *Proceedings of the International Association of Hydrological Sciences*, 366, 129-130.
6. Minhans, A., **Shahid, S.**, Hassan, S.A. (2015): [Assessment of Bus Service-Quality using Passengers' Perceptions](#). *Jurnal Teknologi*, 73(4).
7. Nozibul Haque, M., Keramat, M., **Shahid, S.** (2015): [Groundwater resource evaluation in the western part of Kushtia district of Bangladesh using vertical electrical sounding technique](#). *ISH Journal of Hydraulic Engineering*, 21(1), 97-110.
8. Mohsenipour, M., Asgari, H., **Shahid, S.**, Hadi Pour, S., Roushenas, P. (2015): [Two-dimensional Simulation of Nitrate Transport in an Agriculture-intensive Region](#). *Asian Journal of Water, Environment and Pollution*, 12(1), 45-52.
9. Ahmed, K., **Shahid, S.**, bin Harun, S. (2014): [Spatial interpolation of climatic variables in a predominantly arid region with complex topography](#). *Environmental Systems and Decisiona*, DOI: 10.1007/s10669-014-9519-0.
10. Mohsenipour, M., **Shahid, S.**, Ebrahimi, K., Alamgir, M. (2014): [Efficiency of different organic surfactants on nitrate adsorption in water](#). *Asian Journal of Chemistry*, DOI 10.14233/ajchem.2014.17068.

11. Mohesenipour, M., **Shahid, S.**, Ebrahimi, K. (2014): [Removal Techniques of Nitrate from Water](#). Asian Journal of Chemistry, DOI: 10.14233/ajchem.2014.17136.
 12. Asgari, H., Mohsenipour, M., **Shahid, S.**, Hadi Pour, S., Shafieifar, M., Roushenas, P. (2014): [Spatio-temporal characteristics of droughts and drought trends in Qazvin province of Iran](#). Research Journal of Applied Sciences, Engineering and Technology, 8(11), 1299-1311.
 13. Hadi Pour, S., **Shahid, S.**, bin Harun, S., Wang, X.-J. (2014): [Genetic programming for downscaling extreme rainfall events](#). Proceedings- 1st International Conference on Artificial Intelligence, Modelling and Simulation, AIMS 2013. 2014: 331-334, DOI: 10.1109/AIMS.2013.61.
 14. Minhans, A., **Shahid, S.**, Ahmed, I. (2014): [An investigation into qualitative differences between bus users and operators for intercity travel in Malaysia](#). Jurnal Teknologi, DOI: <http://dx.org/10.1111/jt.v70.3491>.
 15. **Shahid, S.**, Minhans, A., Che Puan, O. (2014): [Assessment of Greenhouse Gas Emission Reduction Measures in Transportation Sector of Malaysia](#). Jurnal Teknologi, DOI: <http://10.11113/jt.v70.3481>.
 16. **Shahid, S.** (2013): [Spatial assessment of drought hazard vulnerability risk in Bangladesh](#). Drought: New Research (2013), 215-241.
 17. **Shahid, S.** (2012): [Rainfall variability and changes in Bangladesh during the last fifty years](#). Rainfall: Behavior, Forecasting and Distribution (2012), 23-44.
 18. **Shahid, S.** (2010): [Spatial Assessment of Groundwater Demand in Northwestern Bangladesh](#). International Journal of Water, 5(3), 267-283.
 19. **Shahid, S.**, Hasan, M., Mondal, R.U. (2007) [Modeling Monthly Mean Maximum Temperature Using Genetic Programming](#). International Journal of Soft Computing, 2(5), 612-616.
 20. Rahman, M.M., **Shahid, S.** (2004): [Modeling Groundwater Flow for the Delineation of Wellhead Protection Area around a Water-well at Nachole of Bangladesh](#). Journal of Spatial Hydrology, 4(1)
 21. **Shahid, S.**, Nath, S.K. (2002): [GIS integration of remote sensing and vertical electrical sounding data for hydrogeological exploration](#). Journal of Spatial Hydrology, 2(1)
 22. **Shahid, S.** (2000): [A Study of Groundwater Pollution Vulnerability Using Drastic/GIS, West Bengal, India](#). Journal of Environmental Hydrology, Paper 1, Volume 8.
 23. **Shahid, S.**, Nath S.K., Patra, H.P. (2000): [Ground water assessment and management within typical laterites around Salboni, District Midnapur \(W.B\)](#). Journal of Indian Water Works XXXII(2), 101-106.
- **Non-Indexed Journals**
 1. Minhans, A., Zaki, N.H., **Shahid, S.**, Abdelfatah, A. (2014): [A comparison of deterministic and stochastic approaches for the estimation of trips rates](#). Journal of Transport System Engineering, 1(1), 01-11.
 2. Sattar, G.S., Keramat, M., Shahid, s. (2014): [Deciphering transmissivity and hydraulic conductivity of the aquifer by vertical electrical sounding \(VES\) experiments in Northwest Bangladesh](#). Applied Water Science, 1-11.
 3. Obaid, H.A., **Shahid, S.**, Basim, K.N., Shreeshivadasan, C. (2014): [Modeling Sewer Overflow of a city with a large floating population](#). Hydrology Current Research 2014, 5(2), DOI: 10.4172/2157-7587.1000171.

4. Obaid, H.A., **Shahid, S.**, Basim, K.N., Shreeshivadasan, C. (2014): [Modeling sewerage overflow in an urban residential area using storm water management model](#). Malaysian Journal of Civil Engineering, 26(2), 163-171.
5. **Shahid, S.**, Wang, X.-J., Keramat, M., Akhter, G., Farooq, S.H., Lubis, R.F. (2014): [Vulnerability and adaptation to climate change in groundwater-dependent irrigation systems in Asian countries](#). APN Science Bulletin, 2014(4), 124-126.
6. Nozibul Haque, M., Keramat, M., **Shahid, S.** (2013): Spatial assessment of aquifer properties in a softrock area of greater Kushtia District of Bangladesh. Journal of Applied Hydrology, XXIV(1-2), 9-18.
7. **Shahid, S.**, Hazarika, M.K. (2007): [Geographic Information System for the Evaluation of Groundwater Pollution Vulnerability of the Northwestern Barind Tract of Bangladesh](#), Environmental Research Journal, 1(1-4), 27-34.
8. **Shahid, S.**, X. Chen, M.K. Hazarika. (2005): [Assessment aridity of Bangladesh using geographic information system](#), GIS Development, 9(12), 40-43.
9. Rahman, S.M., Keramat, M., **Shahid, S.** (2004): Diffraction Identification on Reflection Seismology by Iterative Method for Migration. Journal of Bangladesh Academy of Science, 28(1), 17-25.
10. Mondal, R.U., **Shahid, S.** (2004): Analysis of pumping test data using drawdown derivatives and genetic algorithms, Bangladesh Geosciences Journal, 10, 117-125.
11. Mondal, R.U., **Shahid, S.** (2003): A Neural Network Approach for the Prediction of Monthly Mean Temperature. Islamic University Journal of Science, 2(1), 7-12.
12. Mondal, R.U., **Shahid, S.** (2003): A Neural Network Approach for the Prediction of Monthly Rainfall. Jahangirnagar University Journal of Science, 27, 87-95.
13. **Shahid, S.**, Nath, S.K. (2002): Estimation of aquifer parameters from surface geoelectric measurements for the selection of suitable well sites, Journal of Applied Hydrology, 15(1), 41-49.
14. **Shahid, S.**, Kamal, A.S.M.M., Nath, S.K. (2002): Integration of IRS-1B LISS-II data using Geographic Information System for Hydrogeological Exploration. Bangladesh Journal of Geosciences, 7, 41-49.
15. **Shahid, S.**, Nath, S.K., Patra, H.P. (1999): An Integrated Approach for Ground Water Prospecting around Nazarganj Near Kasai River Bed, Midnapur Dist., WB, India. Journal of Applied Hydrology, XII(4), 15-21.
16. **Shahid, S.**, Nath S.K., Patra, H.P. (1998): Delineation of Well Head Protection Area of Medium Range Public Supply Well at Keshpal, Midnapur Dist., WB. Indian Journal of Environmental Protection, 18(6), 451-453.

Selected International Conference/Workshop Presentations:

1. **Shahid, S.** (2013): VAA Tools for Climate Change Adaptation in Water Resources Management. Workshop on Vulnerability, Impact and Adaptation Assessment for Climate Change: Approaches, Methods and Tools. 10-12 July 2013, Hanoi, Vietnam
2. **Shahid, S.** (2013): Climate change impacts on water resources in Southeast Asia. International Symposium on resilience to climate change in South East Asia, 16-18 April 2013 Reading University, Nusa Jaya, Malaysia
3. **Shahid, S.** (2012): Climate Change Impacts on Groundwater-Dependent Irrigation System in Northwest Bangladesh. International Conference on Climate, Water and Policy (ICCWP) 2012, Busan, Republic of Korea 11-13 Sep 2012
4. **Shahid, S.**, Asgari, H., Salman, S.A. (2012): Investigation on the causes of groundwater droughts in northwestern districts of Bangladesh. 2nd International

- Conference on Water Resources (ICWR2012), 4-9 November, Langkawi, Malaysia
5. **Shahid, S.** (2010): Modelling Drought Hazard, Vulnerability and Risk: A Case Study of Bangladesh. Asia and the Pacific Symposium – Vulnerability Assessments to Natural and Anthropogenic Hazards, 7-10 December 2010 Manila, Philippines.
 6. **Shahid, S.** (2010): Drought in Bangladesh: Observations, Modelling and Predictability (poster). Asia and the Pacific Symposium – Vulnerability Assessments to Natural and Anthropogenic Hazards, 7-10 December 2010 Manila, Philippines
 7. **Shahid, S.** (2009): Spatial Impact of Climate Change on Water Resources in Northwestern Bangladesh, Workshop on Water Resources in Developing Countries: Planning and Management in a Climate Change Scenario, 27 April-8 May 2009, ICTP, Trieste, Italy.
 8. **Shahid, S.** (2008): Geoinformatics in Disaster Management of Bangladesh. Regional Workshop of Radio Science, 30 June 2008, Rajshahi, Bangladesh.
 9. **Shahid, S.** (2007): Estimation of Irrigation Water Demand in Paddy Fields of Northwestern Bangladesh Using Remote Sensing and GIS, 2nd Space for Hydrology Workshop, 12 - 14 November 2007, Geneva, Switzerland.
 10. **Shahid, S.** (2007): Spatial Decision Support System for Water Resources Planning and Management of Ungauged River Basin, Humboldt Network Meeting, April 17-19, Bonn, Germany.
 11. Pyle, D., **Shahid, S.** (2006): Using GIS to map and analyse severe convective storms in the Eastern Cape Province of South Africa, CAMEX (International Conference on the Application of Meteorological Extremes), 9-10 May 2006, Pretoria, South Africa.
 12. Pyle, D., **Shahid, S.** (2006): Severe Storms in the Eastern Cape Province, The Challenge of Global Climate Change, 16-22 September 2006, Rhodes University, Grahamstown, South Africa.
 13. Hossain, F., Bagtzoglou, A.C., Sivakumar, B., **Shahid, S.** (2005): A low-cost and non-structural simulation approach for prevention of arsenic contaminated water supply in a rural setting: the case of Bangladesh. In Tennessee EPSCor Environmental Summit, Feb 16-17, 2005. Tennessee Technological University, USA.
 14. **Shahid, S.**, Chen, X. (2005): Spatio-temporal Characteristics of Drought in North Bangladesh using Geographic Information System, Communicated to International Workshop on Disaster Monitoring and Assessment through Image, 2-4 November 2005, Bangkok, Thailand.
 15. **Shahid, S.**, Hasan, M., Mondal, R.U., Bhuiya, N.A.S., Haque, M. (2005): Modeling Monthly Mean Maximum Temperature using Genetic Programming, Proceeding of 8th International Conference of Communication and Information Technology, 28-30 December, 2005, Dhaka, Bangladesh.
 16. Rahman, M.M., **Shahid, S.**, Al-Safa, N., Huq, M. (2003): An Empirical Study of Genetic Algorithm Operators in Inversion of Geophysical Data. Proceedings of International Conference of Communication and Information Technology, 19-21 December, 2003.
 17. **Shahid, S.**, Al-Safa, N., Huq, M. (2003): Solution of Non-linear Equation using Genetic Algorithm. Proceeding of International Conference of Communication and Information Technology, 21-23 December, 2003.

18. **Shahid, S.** (2000): Modeling subsurface flow of inland pollution to the coastal zone of Bangladesh using Geographic Information System. Lecture Notes in Regional Training Workshop on Biogeochemical Budgeting and Socio-Economic Modeling for Coastal Scientists, Sept. 18-22, 2000, Colombo, Sri Lanka.
19. **Shahid, S.**, Nath, S.K., Sircar, A., Patra, H.P. (1998): An approach to prevent the contamination of ground water using Geographic Information System. Proceeding of International Conference of Disaster Management, Guwahati, Assam, India, April 23-26, 1998.

Member of Scientific/Academic Society

- Life Member, European Geosciences Union
- Member, European Water Resources Association
- Member, The International Association of Hydrological Sciences.
- Member, International Society for Environmental Information Sciences
- Member, International Society for Agricultural Meteorology
- Life Member, Bangladesh Physical Society
- Member, Bangladesh Association for the Advancement of Science

Personal Information

Date and Place of Birth: 02-01-1969, Khulna, Bangladesh

Nationality: Bangladeshi