



**Sung Won (Sungwon) Kim, Ph.D./P.E./Int P.E./APEC Engineer**

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Dongyang University, Yeongju, 36040, Republic of Korea.

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**1. DATE OF BIRTH March 15, 1968**

**2. PLACE OF BIRTH Kimcheon, Republic of Korea**

**3. NATIONALITY Republic of Korea**

**4. OFFICE**

Department of Railroad Construction and Safety Engineering, Dongyang University,  
145 Dongyangdae Ro, Punggi Eup, Yeongju, 36040, Republic of Korea

**5. EDUCATION**

**Ph.D., Civil Engineering Department**

Yeungnam University, Gyeongsan, Republic of Korea (1994-1998),

Major: Water Resources and Environmental Engineering

Dissertation: A Study on the Water Budget Model in the River Catchment

**Master of Science, Civil Engineering Department**

Yeungnam University, Gyeongsan, Republic of Korea (1992-1994),

Major: Water Resources Engineering

Dissertation: A Study on the Water Budget Model in Volcanic Island Basin

**Bachelor of Science, Civil Engineering Department**

Yeungnam University, Gyeongsan, Republic of Korea (1987-1992)

## **6. PROFESSIONAL SUMMARY**

Professor and Research Scientist with over 25 years of experience in hydrology, data-driven engineering, and statistical analysis. My current focus is on building conjunction of data-driven models and tools for water resources modeling, management, and analytics. Proven skills in hydrologic modeling, water resources, and uncertainty analysis. Published several papers on pattern recognition and nonlinear modeling of geophysical processes. Serve in the review board of leading geophysical and machine learning journals and conferences.

Research Gate [https://www.researchgate.net/profile/Sungwon\\_Kim3](https://www.researchgate.net/profile/Sungwon_Kim3)

Google Scholar [https://scholar.google.com/citations?user=BD\\_qr4wAAAAJ&hl=en](https://scholar.google.com/citations?user=BD_qr4wAAAAJ&hl=en)

## **7. PROFESSIONAL CAREER**

**Sep. 2019 - Present:**

Full Professor, Dept. of Railroad Construction and Safety Engineering, Dongyang University, Yeongju, Republic of Korea.

**Sep. 2012 - Aug. 2013:**

Visiting Research Scholar, Dept. of Biological and Agricultural Engineering, Texas A&M University, College Station, TX, USA.

**Mar. 2009 - Aug. 2019:**

Associate Professor, Dept. of Railroad and Civil Engineering, Dongyang University, Yeongju, Republic of Korea.

**Mar. 2009 - Jun. 2011:**

Department Head, Dept. of Railroad and Civil Engineering, Dongyang University, Yeongju, Republic of Korea.

**Dec. 2006 - Feb. 2009:**

Assistant Professor, Dept. of Railroad and Civil Engineering, Dongyang University, Yeongju, Republic of Korea.

**Apr. 2005 - Nov. 2006:**

Assistant Professor, Dept. of Geoenvironmental System Engineering, Dongyang University, Yeongju, Republic of Korea.

**Sep. 2001 - Mar. 2005:**

Senior Lecturer, Dept. of Geoenvironmental System Engineering, Dongyang University, Yeongju, Republic of Korea.

**Jan. 1999 - Dec. 2000:**

Postdoctoral Fellow, Hydrology Program, Dept. of Civil Engineering, Colorado State University, Fort Collins, CO, USA.

**Sep. 1998 - Feb. 1999:**

Part-Time Lecturer, Dept. of Civil Engineering, Taegu University, Kyungsan, Republic of Korea.

**Sep. 1998 - Feb. 1999:**

Part-Time Lecturer, Graduate School, Taegu University, Kyungsan, Republic of Korea.

**Mar. 1997 - Feb. 1999:**

Part-Time Lecturer, Dept. of Civil Engineering, Pohang College, Pohang, Republic of Korea.

**Mar. 1997 - Aug. 1997:**

Part-Time Lecturer, Dept. of Civil Engineering, Keimyung University, Daegu, Republic of Korea.

**Aug. 1996 - Feb. 1999:**

Part-Time Lecturer, Dept. of Civil Engineering, Kyungil University (Kyungbuk University of Technology), Kyungsan, Republic of Korea.

**Mar. 1994 - Feb. 1999:**

Part-Time Lecturer, Dept. of Civil Engineering, Yeungnam College of Science and Technology (Yeungnam College), Daegu, Republic of Korea.

**8. COURSES (TEACHING) EXPERIENCE**

Hydraulics, Hydraulics Laboratory, Applied Hydraulics, Ocean Engineering, Applied Mathematics, Basic Hydrology, River Engineering, Watershed Hydrology, Probability and Statistics, Water Resources Engineering, Fluid Mechanics, Environmental Engineering, Nature and Environment, Water Environment, Water Quality Engineering, Open Channel Hydraulics.

## **9. CONSULTING AND OTHER WORK EXPERIENCE**

### **Mar. 2021 – Jan. 2023:**

Member on the Committee Board of the Precision Safety Inspection & Safety Check, Korea Authority of Land & Infrastructure Safety, Goyang, Republic of Korea.

### **Jan. 2021 – Jan. 2023:**

Member on the Committee Board of the Apartment House Support, Yeongju, Republic of Korea.

### **Nov. 2020 – Nov. 2022:**

Member on the Committee Board of Management on Regional Water Resources and Metro Creek, Daegu, Republic of Korea.

### **Oct. 2020 – Oct. 2022:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Euisung, Republic of Korea.

### **Aug. 2020 – Jul. 2022:**

Member on the Technical Advisory Board, Busan Transportation Corporation, Busan, Republic of Korea

### **Jul. 2020 – Jun. 2022:**

Member on the Selection Committee Board of the Construction Method, Gyeongsangbuk-do, Republic of Korea

### **May 2020 – Aug. 2022:**

Member on the Committee Board of the Proposal Evaluation on the Water Supply and Wastewater Division, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

### **Apr. 2020 – Mar. 2023:**

Member on the 8<sup>th</sup> Technical Advisory Board, SUDOKWON Landfill Site Management Corporation, Incheon, Republic of Korea

**Feb. 2020 – Feb. 2022:**

Member on the Selection Committee Board of the Specific Construction Method, Gyeongsangbuk-do, Republic of Korea

**Feb. 2020 – Dec. 2021:**

Member on the Technical Advisory Board, Goyang City, Goyang, Republic of Korea

**Jan. 2020 – Dec. 2021:**

Member on the Specialist Advisory Group for Environmental Impact Assessment, Daegu Regional Environmental Office, Daegu, Republic of Korea.

**Dec. 2019 – Dec. 2021:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Dong-gu, Daegu, Republic of Korea.

**Nov. 2019 – Nov. 2021:**

Member on the Committee Board of the Disaster Influences Evaluation, Yeongju, Republic of Korea

**Sep. 2019 – Aug. 2022:**

Member on the Committee Board of the Local Architecture, Bongwaha, Republic of Korea

**Sep. 2019 – Jun. 2020:**

Member on the Selection Committee Board of the Specific Construction Method for New Technology, Gyeongsangbuk-do, Republic of Korea

**Sep. 2019 – Sep. 2021:**

Member on the Committee Board of the Gun Planning, Bongwaha, Republic of Korea

**Sep. 2019 – Aug. 2021:**

Member on the Committee Board of the Disaster Influences Evaluation, Dongducheon, Republic of Korea.

**Sep. 2019 – Aug. 2022:**

Member on the 4<sup>th</sup> Committee Board of Build-Transfer-Lease (BTL) Projects, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Sep. 2019 – Aug. 2022:**

Member on the 5<sup>th</sup> Technical Advisory Board, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Jul. 2019 – Jul. 2021:**

Member on the Committee Board of the Urban Planning, Yeongju, Republic of Korea.

**Jun. 2019 – Aug. 2021:**

Member on the Technical Advisory Board of Local Stream, Gyeonggi-do, Republic of Korea

**Feb. 2019 – Jan. 2021:**

Member on the Committee Board of the Precision Safety Inspection & Safety Check, Korea Infrastructure Safety and Technology Corporation (KISTEC), Goyang, Republic of Korea.

**Jan. 2019 – Dec. 2020:**

Member on the Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Jan. 2019 – Dec. 2019:**

Division Member on the Design Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Dec. 2018 – Dec. 2020:**

Member on the Committee Board of the Urban Planning, Yeongju, Republic of Korea.

**May 2018 – Aug. 2019:**

Member on the Technical Advisory Board, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Feb. 2018 – Dec. 2019:**

Member on the Technical Advisory Board, Goyang City, Goyang, Republic of Korea.

**Feb. 2018 – Jan. 2020:**

Member on the Committee Board of Environmental Impact Deliberation, Daegu Regional Environmental Office, Daegu, Republic of Korea.

**Jan. 2018 – Dec. 2019:**

Member on the Specialist Advisory Group for Environmental Impact Assessment, Daegu Regional Environmental Office, Daegu, Republic of Korea.

**Dec. 2017 – Dec. 2019:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Dong-gu, Daegu, Republic of Korea.

**Aug. 2017 – Aug. 2019:**

Member on Division of Water Resources, Water Supply and Waste Water, the 12<sup>th</sup> Technical Advisory Board, Korea Infrastructure Safety and Technology Corporation (KISTEC), Jinju, Republic of Korea.

**Sep. 2017 – Aug. 2019:**

Member on the Committee Board of the Regional Architecture, Bongwha, Republic of Korea.

**Sep. 2017 – Aug. 2019:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Dongducheon, Republic of Korea.

**Jul. 2017 – Jul. 2019:**

Member on the Committee Board of the Urban Planning, Yeongju, Republic of Korea.

**Jan. 2017 – Jan. 2019:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Bongwha, Republic of Korea.

**Jan. 2017 – Jan. 2019:**

Member on the Technical Advisory Board, Busan Regional Construction Management Administration, Busan, Republic of Korea.

**Jan. 2017 – Dec. 2018:**

Member on the Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Aug. 2016 – Aug. 2019:**

Member on the Evaluation Board for SOC Private Investment Project, Korea Environment

Corporation (KECO), Incheon, Republic of Korea.

**Jan. 2016 – Dec. 2016:**

Member on the Evaluation and Consulting Board for Regional Development, Korea Evaluation Institute of Industrial Technology, Daegu, Republic of Korea.

**Sep. 2015 – Sep. 2017:**

Vice Chairman on the Committee Board of Safety & Management for Reservoir and Dam, Daegu, Republic of Korea.

**May 2015 – Apr. 2018:**

Member on the Technical Advisory Board, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Mar. 2015 – Feb. 2017:**

Member on the Construction and Firefighting Board, Forum of Provincial Council, Gyeongsangbuk-do, Republic of Korea.

**Jan. 2015 – Jan. 2017:**

Member on the Technical Advisory Board, Busan Regional Construction Management Administration, Busan, Republic of Korea.

**Jan. 2015 – Dec. 2015:**

Member on the Completion and Product Evaluation Committee Board of 10 year Build-Transfer-Lease (BTL) Projects, Yeongju, Republic of Korea.

**Jul. 2014 – Jun. 2016:**

Foreign Member on the Technical Committee Board, Korea Rural Community (KRC) Corporation, Naju, Republic of Korea.

**Feb. 2014 – :**

Member on the Construction Advisory and Committee Board, Seongnam Development Corporation, Seongnam, Republic of Korea.

**Sep. 2013 – Sep. 2015:**

Member on the Committee Board of the Gun Planning, Bongwha, Republic of Korea.



**Sep. 2013 – Sep. 2015:**

Member on the Committee Board of Safety & Management on Reservoir and Dam, Daegu, Republic of Korea.

**Feb. 2013 – Jan. 2015:**

Member on the Committee Board of the Precision Inspection & Safety Check, Korea Infrastructure Safety and Technology Corporation (KISTEC), Goyang, Republic of Korea.

**Jan. 2013 – Dec. 2014:**

Member on the Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Jul. 2012 – Jun. 2014:**

Foreign Member on the Technical Committee Board, Korea Rural Community (KRC) Corporation, Naju, Republic of Korea.

**Dec. 2011 – Dec. 2013:**

Member on the Committee Board of the Landscape, Gyeongsangbuk-do, Republic of Korea.

**Oct. 2011 – Present:**

Member on the Knowledge Economy & Technological Innovation Evaluation and Planning Board, Korea Evaluation Institute of Industrial Technology (KEIT), Daegu, Republic of Korea.

**Sep. 2011 – :**

Member on the Construction & Transportation Evaluation and Planning Board, Korea Institute of Construction & Transportation Technology Evaluation and Planning (KICTEP), Anyang, Republic of Korea.

**Mar. 2011 – Mar. 2012:**

Member on the Advisory Board of the 4 Major Rivers Restoration, Ministry of Land, Transport, and Maritime Affairs (MLTM), Gwacheon, Republic of Korea.

**Feb. 2011 – Jan. 2013:**

Member on the Committee Board of the Precision Inspection & Safety Check, Korea Infrastructure Safety and Technology Corporation (KISTEC), Goyang, Republic of Korea.

**Jan. 2011 – Dec. 2012:**

Member on the Committee Board of the General Technology, Korea Water Resources Corporation (K-Water), Republic of Korea.

**Jan. 2011 – Dec. 2012:**

Member on the Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Nov. 2010 – Oct. 2012:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Bongwha, Republic of Korea.

**Oct. 2010 – Oct. 2012:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Euisung, Republic of Korea.

**Aug. 2010 – Present:**

Advisor, Myung Jin Geo & Technology Co., Ltd., Seoul, Republic of Korea.

**Jul. 2010 – Jul. 2017:**

Member on the Committee Board of Korean Small Business Innovation Research Program, Korea Technology and Information Promotion for SMEs (TIPA), Daejeon, Republic of Korea.

**Dec. 2009 – Dec. 2011:**

Member on the Committee Board of the Landscape, Gyeongsangbuk-do, Republic of Korea.

**Jun. 2009 – May 2011:**

Member on the Advanced Committee Board of the Disaster Recovery Projects, Daegu, Republic of Korea.

**May 2009 – Apr. 2012:**

Member on the Design Advisory Board, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Feb. 2009 – Dec. 2010:**

Member on the Committee Board of the General Technology, Korea Water Resources Corporation (K-Water), Republic of Korea.

**Jan. 2009 – Dec. 2010:**

Member on the Committee Board of the Regional Construction & Technology, Gyeongsangbuk-do, Republic of Korea.

**Nov. 2008 – Nov. 2010:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Yeongju, Republic of Korea.

**Nov. 2008 – Dec. 2009:**

Member on the Committee Board of Great Surveying & Subject Selection of Nakdong River and Baekdu Great Mountain, Maeil Newspaper Company, Daegu, Republic of Korea.

**Nov. 2008 – Oct. 2010:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Bongwha, Republic of Korea.

**May 2008 – May 2010:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Daegu, Republic of Korea.

**Nov. 2006 – Oct. 2008:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Bongwha, Republic of Korea.

**Sep. 2006 – Sep. 2008:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Yeongju, Republic of Korea.

**May 2006 – May 2008:**

Member on the Investigation Committee Board of the Advanced Disaster Influences, Daegu, Republic of Korea.

**Mar. 2006 – Dec. 2007:**

Member on Committee Board of Technical Evaluation, Public Procurement Service (PPS), Daejeon, Republic of Korea.

**May 2004 – Apr. 2007:**

Member on the Committee Board of Build-Transfer-Lease (BTL) Projects, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Feb. 2002 – Jan. 2004:**

Member on the Committee Board of Sewerage Build-Transfer-Lease (BTL) Projects, Korea Environment Corporation (KECO), Incheon, Republic of Korea.

**Sep. 2001 – :**

Member on the Advisory Board of Disaster Management and Civil Technology, Yeongju, Republic of Korea.

## **10. PROFESSIONAL LICENSES**

**Jul. 2016 – Jul. 2019:**

The International Professional Engineer, The Korean Professional Engineers Association, Seoul, Republic of Korea.

**Jul. 2016 – Jul. 2019:**

The APEC Engineer, The Korean Professional Engineers Association, Seoul, Republic of Korea.

**May 2002:**

Professional Engineer of the Water Resources Development, Human Resources Development Service of Korea, Ulsan, Republic of Korea.

**Jul. 1991:**

1<sup>st</sup> Degree Civil Engineer, Human Resources Development Service of Korea, Ulsan, Republic of Korea.

## **11. PROFESSIONAL AND SCIENTIFIC SOCIETIES**

**Aug. 2020 – Present:**

Member of Editorial Board, Water Productivity Journal, Veresk Ettesal Knowledge base company (<http://www.waterproductivity.net/>)

**Dec. 2019 – Present:**

Member of Editorial Board, Forecasting, MDPI (<https://www.mdpi.com/journal/forecasting/editors>)

**Jan. 2019 – Dec. 2020:**

Member of Directors Board, “Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**Jan. 2019 – Dec. 2020:**

Member of Associate Editors in Editorial Board, “Journal of Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**Oct. 2017 – Present:**

Member of Associate Editorial Board, The Open Civil Engineering Journal (SCOPUS), Bentham Open (<https://benthamopen.com/TOCIEJ/editorial-board/>)

**Jan. 2017 – Jan. 2019:**

Chairman of Membership and Nominating Committees, “Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**Jan. 2017 – Jan. 2019:**

Member of Council Board, “Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**May 2016 – Present:**

Member of Editorial Board, American Journal of Applied Sciences, Science Publications (<http://thescipub.com/journals/ajas/editors>)

**Nov. 2015 – Oct. 2017:**

Member of Council Board, Daegu and Gyeong-Buk Section of KWRA, Daegu, Republic of Korea

**Aug. 2015:**

Chairman on the Session 6 (Related Areas and Computational Intelligence) of the 2<sup>nd</sup> International Conference on Harmony Search Algorithm, 21 August PM 12:30-16:00, Hana Square, Korea University, Seoul, Republic of Korea.

**Aug. 2013:**

Chairman on the Session “Climate Change Assessment and Water Management VIII” of the 6<sup>th</sup> Conference of the Asia Pacific Association of Hydrology and Water Resources, 20 August PM 16:00-17:00, Hana Square, Korea University, Seoul, Republic of Korea.

**Mar. 2011 – Feb. 2013:**

Member of Council Board, “Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**Mar. 2011 – Feb. 2013:**

Secretary on the Academic Committee Board of “Korea Water Resources Association (KWRA)”, Republic of Korea.

**Apr. 2010 – Apr. 2011:**

Member of Editorial Board, “Journal of Korean Wetlands Society (KWS)”, Seoul, Republic of Korea.

**Apr. 2009 – Mar. 2011:**

Member of Council Board, “Korea Water Resources Association (KWRA)”, Seoul, Republic of Korea.

**Apr. 2008 – Present:**

Fellow Membership, International Congress of Disaster Management, “Disaster Management”, Indore, India.

**Apr. 2008 – Present:**

Member of Editorial Board, “Disaster Advances” International Journal, Indore, India

**Sep. 2006 – Feb. 2007:**

Member of the Annual Conference Board, “Korea Society of Hazard Mitigation (KOSHAM)”, Seoul, Republic of Korea.

**Feb. 2006:**

Chairman on the Session 1 (River Protection Division) of the 2006 Annual Conference, “Korea Society of Hazard Mitigation (KOSHAM)”, Seoul, Republic of Korea.

**Jun. 2005 – Jun. 2006:**

Member of the Annual Conference Board, “Korea Society of Hazard Mitigation (KOSHAM)”, Seoul, Republic of Korea.

**Jun. 2003 – Present:**

Permanent Member of “Korean Society of Hazard Mitigation (KOSHAM)”.

**Apr. 2003 – Apr. 2004:**

Member of Editorial Board, “Journal of Korea Society of Hazard Mitigation (KOSHAM)”, Seoul, Republic of Korea.

**May. 2002 – Present:**

Member of “Korean Society of Civil Engineers (KSCE)”.

**Apr. 1999 – Present:**

Affiliate Member of “American Society of Civil Engineers (ASCE)”.

**Dec. 1997 – Present:**

Member of “International Water Resources Association (IWRA)”.

**Feb. 1997 – Present:**

Member of “Korean Society of Agricultural Engineers (KSAE)”.

**Jul. 1995 – Present:**

Permanent Member of “Korean Water Resources Association (KWRA)”.

## **12. PROFESSIONAL ACTIVITIES**

### **1. Peer Reviewed International Journal Papers**

Reviewer, Journal of Irrigation and Drainage, ASCE (2 times)  
Reviewer, KSCE Journal of Civil Engineering (6 times)  
Reviewer, Scientia Horticulturae (1 time)  
Reviewer, Water Resources Management (13 times)  
Reviewer, International Journal of Climatology (9 times)  
Reviewer, Computers and Fluids (2 times)  
Reviewer, Journal of Hydroinformatics (31 times)  
Reviewer, Journal of Hydrology (20 times)  
Reviewer, Computers & Geosciences (1 time)  
Reviewer, Hydrological Sciences Journal (8 times)  
Reviewer, Hydrology Research (18 times)  
Reviewer, Geoscience Letters (2 times)  
Reviewer, Journal of Hydrogeology & Hydrologic Engineering (1 time)

Reviewer, Journal of Hydrologic Engineering, ASCE (15 times)  
 Reviewer, Neural Computing and Applications (16 times)  
 Reviewer, Journal of Applied Geophysics (1 time)  
 Reviewer, Measurement (7 times)  
 Reviewer, Water Science and Technology: Water Supply (10 times)  
 Reviewer, Chapter 12 on *Handbook of Applied Hydrology* (1 time)  
 Reviewer, The Egyptian Journal of Remote Sensing and Space Sciences (1 time)  
 Reviewer, Water (17 times)  
 Reviewer, Journal of Computing in Civil Engineering, ASCE (1 time)  
 Reviewer, Journal of Zhejiang University-SCIENCE A (1 time)  
 Reviewer, Proceedings of ICE – Water Management (1 time)  
 Reviewer, Environmental Processes (4 times)  
 Reviewer, Theoretical and Applied Climatology (6 times)  
 Reviewer, River Research and Applications (2 times)  
 Reviewer, Remote Sensing (16 times)  
 Reviewer, American Journal of Applied Sciences (1 time)  
 Reviewer, Atmosphere (2 times)  
 Reviewer, Sustainability (4 times)  
 Reviewer, Hydrology and Earth System Sciences (HESS) (1 time)  
 Reviewer, Journal of Hydrology: Regional Studies (1 time)  
 Reviewer, Environmental Monitoring and Assessment (7 times)  
 Reviewer, PLoS ONE (1 time)  
 Reviewer, Atmospheric Research (1 time)  
 Reviewer, Advances in Mechanical Engineering (1 time)  
 Reviewer, Computational Intelligence (3 times)  
 Reviewer, Stochastic Environmental Research and Risk Assessment (3 times)  
 Reviewer, Computers and Electronics in Agriculture (7 times)  
 Reviewer, Applied Sciences (6 times)  
 Reviewer, Information Sciences (1 time)  
 Reviewer, Flow Measurement and Instrumentation (1 time)  
 Reviewer, Air Quality, Atmosphere and Health (1 time)  
 Reviewer, Energy (14 times)  
 Reviewer, IETE Journal of Research (2 times)  
 Reviewer, Proposal on *Handbook of Hydroinformatics* (1 time)  
 Reviewer, ISH Journal of Hydraulic Engineering (7 times)  
 Reviewer, International Transactions on Electrical Energy Systems (1 time)  
 Reviewer, Iranian Journal of Science and Technology – Transactions of Civil Engineering (3 times)



Reviewer, International Journal of Management Science and Engineering Management (1 time)  
 Reviewer, Irrigation and Drainage (2 times)  
 Reviewer, ISPRS International Journal of Geo-Information (1 time)  
 Reviewer, Science of the Total Environment (10 times)  
 Reviewer, Industrial Crops and Products (1 time)  
 Reviewer, Journal of Applied Meteorology and Climatology (1 time)  
 Reviewer, Mathematical Geosciences (2 times)  
 Reviewer, Soft Computing (15 times)  
 Reviewer, Applied Soft Computing (9 times)  
 Reviewer, Acta Geophysica (5 times)  
 Reviewer, Carbon Management (1 time)  
 Reviewer, Entropy (2 times)  
 Reviewer, Annals of Agrarian Science (1 time)  
 Reviewer, Meteorological Applications (3 times)  
 Reviewer, Engineering Applications of Computational Fluid Mechanics (6 times)  
 Reviewer, The International Journal of River Basin Management (3 times)  
 Reviewer, Sustainable Computing: Informatics and Systems (1 time)  
 Reviewer, Energy Science and Engineering (1 time)  
 Reviewer, Environmental Earth Sciences (3 times)  
 Reviewer, Water Research (1 time)  
 Reviewer, Journal of Experimental and Theoretical Artificial Intelligence (1 time)  
 Reviewer, Agricultural Water Management (8 times)  
 Reviewer, 6<sup>th</sup> International Conference on Mechanical Engineering, Materials Science and Civil Engineering (1 time)  
 Reviewer, Advances in Civil Engineering (1 time)  
 Reviewer, Agricultural and Forest Meteorology (2 times)  
 Reviewer, Arabian Journal of Geosciences (3 times)  
 Reviewer, International Journal of Finance and Economics (1 time)  
 Reviewer, Hydrology (4 times)  
 Reviewer, Natural Resources Modeling (1 time)  
 Reviewer, Physical Geography (1 time)  
 Reviewer, Construction and Building Materials (2 times)  
 Reviewer, Computers and Electrical Engineering (4 times)  
 Reviewer, IEEE Access (15 times)  
 Reviewer, Environmental Modelling and Software (2 times)  
 Reviewer, Desalination and Water Treatment (8 times)  
 Reviewer, Acta Oceanologica Sinica (1 time)

Reviewer, SN Applied Sciences (1 time)  
Reviewer, Journal of Applied Water Engineering and Research (1 time)  
Reviewer, Engineering Reports (1 time)  
Reviewer, Communications in Statistics – Simulation and Computation (1 time)  
Reviewer, Journal of Cleaner Production (1 time)  
Reviewer, Water Quality Research Journal (1 time)  
Reviewer, CLEAN – Soil, Air, Water (1 time)  
Reviewer, Journal of Oceanology and Limnology (1 time)  
Reviewer, Complexity (3 times)  
Reviewer, Structures (1 time)  
Reviewer, Journal of Atmospheric and Solar-Terrestrial Physics (1 time)  
Reviewer, Environmental Science and Pollution Research (1 time)  
Reviewer, Discrete Dynamics in Nature and Society (1 time)  
Reviewer, Sustainable Energy Technologies and Assessments (2 times)  
Reviewer, Advances in Water Resources (1 time)  
Reviewer, International Journal of Green Energy (1 time)  
Reviewer, ISA Transactions (1 time)  
Reviewer, IEEE Transactions on Neural Networks and Learning Systems (2 times)  
Reviewer, Finance Research Letters (1 time)  
Reviewer, Geotechnical and Geological Engineering (1 time)  
Reviewer, Journal of Environmental Engineering and Landscape Management (1 time)  
Reviewer, Heliyon (1 time)  
Reviewer, International Journal of Communication Systems (1 time)  
Reviewer, AGU Books (1 time)  
Reviewer, IEEE Transactions on Industrial Informatics (1 time)  
Reviewer, Inverse Problems in Science and Engineering (1 time)  
Reviewer, Water Environment Research (1 time)  
Reviewer, Urban Water Journal (1 time)  
Reviewer, Engineering Applications of Artificial Intelligence (1 time)  
Reviewer, Water and Environment Journal (1 time)  
Reviewer, Journal of Computational Design and Engineering (2 times)  
Reviewer, Meteorology and Atmospheric Physics (2 times)  
Reviewer, Journal of Water and Climate Change (1 time)  
Reviewer, Expert Systems with Applications (2 times)  
Reviewer, Journal of Marine Science and Application (1 time)  
Reviewer, Combustion Science and Technology (1 time)  
Reviewer, Science Progress (1 time)

Reviewer, Natural Resources Research (1 time)

Reviewer, Journal of the American Water Resources Association (1 time)

Reviewer, Journal of Ocean University of China (1 time)

Reviewer, Concurrency and Computation: Practice and Experience (1 time)

## **2. Domestic Journal Papers**

Reviewer, Journal of Korea Water Resources Association (KWRA) (22 times)

Reviewer, Journal of Korean Wetlands Society (KWS) (5 times)

Reviewer, Journal of Korean Society of Civil Engineers (KSCE) (9 times)

Reviewer, Journal of the Korean Environmental Sciences Society (KENSS) (5 times)

Reviewer, Journal of Korean Society of Hazard Mitigation (KOSHAM) (2 times)

## **13. HONORS**

### **1. International Biographical Citations: 20 citations**

#### **2011-2012:**

Inclusion – Marquis Who'sWho in Science and Engineering, 11<sup>th</sup> Edition, Marquis Who'sWho

#### **2012:**

Inclusion – Marquis Who'sWho in Asia, 2<sup>nd</sup> Edition, Marquis Who'sWho

#### **2011:**

Inclusion – Marquis Who'sWho in the World, 28<sup>th</sup> Edition, Marquis Who'sWho

#### **2011:**

Inclusion – Marquis Who'sWho in America, 65<sup>th</sup> Edition, Marquis Who'sWho

#### **2010:**

Inclusion – Marquis Who'sWho in the World, 27<sup>th</sup> Edition, Marquis Who'sWho

#### **2010:**

Inclusion – Marquis Who'sWho in America, 64<sup>th</sup> Edition, Marquis Who'sWho

#### **2010:**

Inclusion – 2000 Outstanding Scientists 2010, International Biographical Center (IBC)

**2010:**

Inclusion – Great Minds of the 21<sup>st</sup> Century, 4<sup>th</sup> Edition, American Biographical Institute (ABI)

**2008-2009:**

Inclusion – Marquis Who'sWho in Science and Engineering, 10<sup>th</sup> Edition, Marquis Who'sWho

**2009:**

Inclusion – Marquis Who'sWho in America, 63<sup>rd</sup> Edition, Marquis Who'sWho

**2009:**

Inclusion – Marquis Who'sWho in the World, 26<sup>th</sup> Edition, Marquis Who'sWho

**2009:**

Inclusion – 2000 Outstanding Intellectuals of the 21<sup>st</sup> Century, 5<sup>th</sup> Edition, International Biographical Center (IBC)

**2009:**

Inclusion – Dictionary of International Biography, 35<sup>th</sup> Edition, International Biographical Center (IBC)

**2008:**

Inclusion – Marquis Who'sWho in the World, 25<sup>th</sup> Edition, Marquis Who'sWho

**2008:**

Inclusion – Dictionary of International Biography, 34<sup>th</sup> Edition, International Biographical Center (IBC)

**2006-2007:**

Inclusion – Marquis Who'sWho in Science and Engineering, 9<sup>th</sup> Edition, Marquis Who'sWho

**2007:**

Inclusion – Marquis Who'sWho in Asia, 1<sup>st</sup> Edition, Marquis Who'sWho

**2007:**

Inclusion – Outstanding Scientists of the 21<sup>st</sup> Century, Inaugural Edition, International Biographical Center (IBC)

**2007:**

Inclusion – The Cambridge Blue Book 2007, International Biographical Center (IBC)

**2007:**

Inclusion – 500 Greatest Geniuses of the 21<sup>st</sup> Century, American Biographical Institute (ABI)

## **2. Domestic Biographical Citations: 2 citations**

**2011:**

Inclusion – Maeil Myeong Gam 2011, Mail Newspaper Company (In Korean)

**2008:**

Inclusion – Korea Human History of the 21<sup>st</sup> Century 2008, Korea Racial History Publication (In Korean)

## **3. International Awards: 10 Awards**

**2016:**

Award – Certificate of Reviewing, The Editors of Journal of Hydrology, Elsevier



**2008:**

Award – Certification of IBC Cambridge Blue Book, International Biographical Center (IBC)

**2008:**

Award – American Hall of Fame, American Biographical Institute (ABI)

**2007:**

Award – Da Vinci’s Vitruvian, International Biographical Center (IBC)

**2007:**

Award – Order of International Fellowship, International Biographical Center (IBC)

**2007:**

Award – International Order of Merit, International Biographical Center (IBC)

**2007:**

Award – The Da Vinci Diamond, International Biographical Center (IBC)

**2007:**

Award – Hall of Fame, International Biographical Center (IBC)

**2007:**

Award – Order of International Ambassadors, American Biographical Institute (ABI)

**2007:**

Award – The American Order of Excellence, American Biographical Institute (ABI)

#### **4. Domestic Awards: 4 Awards**

**Jan. 2021:**

Award – The President Award of “Korean Water Resources Association (KWRA)”, KWRA

**Jan. 2019:**

Award – The Academic Award of “Korean Water Resources Association (KWRA)”, KWRA

**Feb. 2012:**

Award – The President Award of “Korean Water Resources Association (KWRA)”, KWRA

**Feb. 2007:**

Award – The President Award of “Korea Society of Hazard Mitigation (KOSHAM)”, KOSHAM

## **14. PUBLICATIONS: Total Citation (1,738 times, 31/MAR/2021)**

### **1. Peer Reviewed International Journal Papers: 56 (Published), 2 (In press) (SCI, SCIE)**

**Kim, S.**, N. Maleki, M. Rezaie-Balf, V.P. Singh, M. Alizamir, N.W. Kim, J.T. Lee and O. Kisi, 2021, "Assessment of the total organic carbon employing the different nature-inspired approaches in the Nakdong River, South Korea", Environmental Monitoring and Assessment, accepted, (IF=1.903, 2019) (Q3)

Alizamir, M., **S. Kim**, M. Zounemat-Kermani, S. Heddami, A.H. Shahrabadi and B. Gharabaghi, 2021. "Modelling daily soil temperature by hydro-meteorological data at different depths using a novel data-intelligence model: Deep Echo State Network model", Artificial Intelligence Review, accepted, (IF=5.747, 2019) (<https://doi.org/10.1007/s10462-020-09915-5>) (Q1)

Karimi-Rizvandi, S., H.V. Goodarzi, J.H. Afkhouieh, I.M. Chung, O. Kisi, **S. Kim** and N.T.T. Linh, 2021. "Groundwater-potential mapping using a self-learning Bayesian network model: A comparison among metaheuristic algorithms", Water, Vol. 13, Issue 5, 658. (IF=2.544, 2019) (<https://doi.org/10.3390/w13050658>) (Q2)

Alizamir, M., S. Heddami, **S. Kim** and A.D. Mehr, 2021. "On the implementation of a novel data-intelligence model based on extreme learning machine optimized by bat algorithm for predicting daily chlorophyll-a concentration: case studies of rivers in USA", Journal of Cleaner Production, Vol. 285, 124868. (IF=7.246, 2019) (<https://www.sciencedirect.com/science/article/pii/S095965262034912X?dgcid=coauthor>) (Q1)

Kisi, O., M. Alizamir, S. Trajkovic, J. Shiri and **S. Kim**, 2020, "Solar radiation estimation in Mediterranean climate by weather variables using a novel Bayesian model averaging and wavelet extreme learning machines", Neural Processing Letters, Vol. 52, 2297-2318. (IF=2.891, 2019) (Cited by 3) (<https://link.springer.com/article/10.1007/s11063-020-10350-4>) (Q2)

**Kim, S.**, M. Alizamir, N.W. Kim and O. Kisi, 2020, "Bayesian model averaging: a unique model enhancing forecasting accuracy for daily streamflow based on different antecedent time series", Sustainability, Vol. 12, Issue 22, 9720. (IF=2.576, 2019) (Special Issue: *Machine Learning with Metaheuristic Algorithms for Sustainable Water Resources Management*) (<https://www.mdpi.com/2071-1050/12/22/9720>) (Q2)

Melesse, A.M., K. Khosravi, J.P. Tiefenbacher, S. Heddami, **S. Kim**, A. Mosavi and B.T. Pham,

2020. "River salinity prediction using hybrid machine learning models", *Water*, Vol. 12, Issue 10, 2951. (IF=2.544, 2019) (Cited by 2) (<https://www.mdpi.com/2073-4441/12/10/2951>) (Q2)

Alizamir, M., **S. Kim**, M. Zounemat-Kermani, S. Heddami, N.W. Kim and V.P. Singh, 2020. "Kernel extreme learning machine: an efficient model for estimating daily dew point temperature using weather data", *Water*, Vol. 12, Issue 9, 2600. (IF=2.544, 2019) (Cited by 1) (<https://www.mdpi.com/2073-4441/12/9/2600>) (Q2)

**Kim, S.**, M. Alizamir, M. Zounemat-Kermani, O. Kisi and V.P. Singh, 2020. "Assessing the biochemical oxygen demand using neural networks and ensemble tree approaches in South Korea", *Journal of Environmental Management*, Vol. 270, 110834. (IF=5.647, 2019) (Cited by 2) (<https://www.sciencedirect.com/science/article/pii/S0301479720307659>) (Q1)

Alizamir, M., O. Kisi, **S. Kim** and S. Heddami, 2020. "A novel method for lake level prediction: Deep Echo State Network", *Arabian Journal of Geosciences*, Vol. 13, No. 18, 956. (IF=1.327, 2019) (Cited by 1) (<https://link.springer.com/article/10.1007/s12517-020-05965-9#citeas>) (Q4)

Ghorbani, M.A., R.C. Deo, **S. Kim**, M. Kashani, V. Karimi, M. Izadkhah, 2020. "Development and evaluation of the cascade correlation neural network and the random forest models for river stage and riverflow discharge prediction in Australia", *Soft Computing*, Vol. 24, 12079-12090 (IF=3.050, 2019) (Cited by 12) (<https://link.springer.com/article/10.1007%2Fs00500-019-04648-2>) (Q2)

Yaseen, Z.M., S. Naghshara, S.Q. Salih, **S. Kim**, A. Malik and M.A. Ghorbani, 2020. "Lake water level modeling using newly developed hybrid data intelligence model", *Theoretical and Applied Climatology*, Vol. 141, 1285-1300. (IF=2.882, 2019) (Cited by 4) (<https://link.springer.com/article/10.1007/s00704-020-03263-8>) (Q2)

Ghorbani, M.A., R. Khatibi, V.P. Singh, E. Kahya, H. Ruskeepaa, M.K. Saggi, B. Sivakumar, **S. Kim**, F. Salmasi, S. SamadianFard, M.H. Kashani, M. Shahabi and R. Jani, 2020. "Continuous monitoring of suspended sediment concentrations using image analytics and deriving inherent correlations by machine learning", *Scientific Reports*, Vol. 10, 8589. (IF=3.998, 2019) (Cited by 2) (<https://www.nature.com/articles/s41598-020-64707-9>) (Q1)

Malik, A., A. Kumar, S.Q. Salih, **S. Kim**, N.W. Kim, Z.M. Yaseen and V.P. Singh, 2020. "Drought index prediction using advanced fuzzy logic model: Regional case study over Kumaon in India", *PLoS One*, Vol. 15, No. 5, e0233280. (IF=2.740, 2019) (Cited by 15) (<https://doi.org/10.1371/journal.pone.0233280>) (Q2)



- Alizamir, M., **S. Kim**, O. Kisi and M. Zounemat-Kermani, 2020. "Deep echo state network: a novel machine learning approach to model dew point temperature using meteorological variables", *Hydrological Sciences Journal*, Vol. 65, Issue 7, 1173-1190. (IF=2.186, 2019) (Cited by 12) (<https://doi.org/10.1080/02626667.2020.1735639>) (Q2)
- Alizamir, M., **S. Kim**, O. Kisi and M. Zounemat-Kermani, 2020. "A comparative study of several machine learning based non-linear regression methods in estimating solar radiation: case studies of the USA and Turkey regions", *Energy*, Vol. 197, 117239. (IF=6.082, 2019) (Cited by 18) (<https://doi.org/10.1016/j.energy.2020.117239>) (Q1)
- Alizamir, M., O. Kisi, A.N. Ahmed, C. Mert, C.M. Fai, **S. Kim**, N.W. Kim and A. El-Shafie, 2020. "Advanced machine learning model for better prediction accuracy of soil temperature at different depths", *PLoS One*, Vol. 15, No. 4, e0231055. (IF=2.740, 2019) (Cited by 15) (<https://doi.org/10.1371/journal.pone.0231055>) (Q2)
- Zakhrouf, M., H. Bouchelkia, M. Stamboul and **S. Kim**, 2020. "Novel hybrid approaches based on the evolutionary strategy for streamflow forecasting in the Chellif River, Algeria", *Acta Geophysica*, Vol. 68, 167-180. (IF=1.395, 2019) (Cited by 3) (<https://doi.org/10.1007/s11600-019-00380-5>) (Q3)
- Malik, A., A. Kumar, **S. Kim**, M.H. Kashani, V. Karimi, A. Sharafati, M.A. Ghorbani, N. Al-Ansari, S.Q. Salih, Z.M. Yassen and K.W. Chau, 2020. "Modeling monthly pan evaporation process over the Indian central Himalayas: Application of multiple learning artificial intelligence model", *Engineering Applications of Computational Fluid Mechanics*, Vol. 14, Issue 1, 323-338. (IF=5.800, 2019) (Cited by 22) (<https://doi.org/10.1080/19942060.2020.1715845>) (Q1)
- Malik, A., A. Kumar, M.A. Ghorbani, M.H. Kashani, O. Kisi and **S. Kim**, 2019. "The viability of co-active fuzzy inference system model for monthly reference evapotranspiration estimation: case study in Uttarakhand State", *Hydrology Research*, Vol. 50, Issue 6, 1623-1644. (IF=2.102, 2019) (Cited by 18) (<https://doi.org/10.2166/nh.2019.059>) (Q2)
- Kisi, O., A.D. Gorgij, M. Zounemat-Kermani, A. Mahdavi-Meymand and **S. Kim**, 2019. "Drought forecasting using novel heuristic methods in a semi-arid environment", *Journal of Hydrology*, Vol. 578, 124053. (IF=4.500, 2019) (Cited by 25) (<https://www.sciencedirect.com/science/article/pii/S0022169419307802>) (Q1)

Fallah, H., O. Kisi, **S. Kim** and M. Rezaie-Balf, 2019. "A new optimization approach for the least-cost design of water distribution network: Improved crow search algorithm", *Water Resources Management*, Vol. 33, No. 10, 3595-3613. (IF=2.924, 2019) (Cited by 7)

(<https://link.springer.com/article/10.1007/s11269-019-02322-8>) (Q1)

**Kim, S.**, Y. Seo, M. Rezaie-Balf, O. Kisi, M.A. Ghorbani and V.P. Singh, 2019. "Evaluation of daily solar radiation flux using soft computing approaches based on different meteorological information: Peninsula vs Continent", *Theoretical and Applied Climatology*, Vol. 137, Issue 1-2, 693-712. (IF=2.882, 2019) (Cited by 12) (<https://link.springer.com/article/10.1007/s00704-018-2627-x>) (Q2)

Zounemat-Kermani, M., Y. Seo, **S. Kim**, M. A. Ghorbani, S. Samadianfard, S. Naghshara, N.W. Kim and V.P. Singh, 2019. "Can the decomposition approaches always enhance the soft computing models? Predicting the dissolved oxygen concentration in St. Johns River, Florida", *Applied Sciences*, Vol. 9, Issue 12, 2534. (IF=2.474, 2019) (Cited by 16) (Special Issue: *Water Decontamination: Wastewater, Stormwater, Agricultural Drainage, and Hazardous Substances Treatment*) (<https://www.mdpi.com/2076-3417/9/12/2534>) (Q3)

Rezaie-Balf, M., **S. Kim**, H. Fallah and S. Alaghmand, 2019. "Daily river flow forecasting using ensemble empirical mode decomposition based heuristic regression models: Application on the Perennial rivers in Iran and South Korea", *Journal of Hydrology*, Vol. 572, 470-485. (IF=4.500, 2019) (Cited by 25) (<https://www.sciencedirect.com/science/article/pii/S0022169419302471>) (Q1)

Rezaie-Balf, M., N. Maleki, **S. Kim**, A. Ashrafiyan, F. Babaie-Miri, N.W. Kim, I.M. Chung and S. Alaghmand, 2019. "Forecasting daily solar radiation using CEEMDAN decomposition-based MARS model trained by crow search algorithm", *Energies*, Vol. 12, Issue 8, 1416. (IF=2.702, 2019) (Cited by 20) (Special Issue: *Modelling and Simulation of Smart Energy Management Systems*) (<https://www.mdpi.com/1996-1073/12/8/1416>) (Q3)

Yaseen, Z.M., I. Ebtahaj, **S. Kim**, H. Sanikhani, H. Asadi, M.I. Ghareb, H. Bonakdari, W.H.M.W. Mohtar, N. Al-Ansari and S. Shahid, 2019. "Novel hybrid data-intelligence model for forecasting monthly rainfall with uncertainty analysis", *Water*, Vol. 11, Issue 3, 502. (IF=2.544, 2019) (Cited by 45) (Special Issue: *Water Resources Management Strategy under Global Change*) (<https://www.mdpi.com/2073-4441/11/3/502>) (Q2)

Yaseen, Z.M., M.T. Tran, **S. Kim**, T. Bakhshpoori, and R.C. Deo, 2018. "Shear strength prediction of steel fiber reinforced concrete beam using hybrid intelligence models: A new approach", *Engineering Structures*, Vol. 177, 244-255. (IF=3.548, 2019) (Cited by 51)

(<https://www.sciencedirect.com/science/article/pii/S014102961831054X>) (Q1)

Zakhrouf, M., H. Bouchelkia, M. Stamboul, **S. Kim**, and S. Heddam, 2018. "Time series forecasting of river flow using an integrated approach of wavelet multi-resolution analysis and evolutionary data-driven models. A case study: Sebaou River (Algeria) ", *Physical Geography*, Vol. 39, Issue 6, 506-522. (IF=1.435, 2019) (Cited by 11)

(<https://www.tandfonline.com/doi/abs/10.1080/02723646.2018.1429245>) (Q3)

Yaseen, Z.M., H. Karami, M. Etheram, N.S. Mohd, S.F. Mousavi, L.S. Hin, O. Kisi, S. Farzin, **S. Kim** and A. El-Shafie, 2018. "Optimization of reservoir operation using new hybrid algorithm", *KSCE Journal of Civil Engineering*, Vol. 22, Issue 11, 4668-4680. (IF=1.515, 2019) (Cited by 13)

(<https://link.springer.com/article/10.1007/s12205-018-2095-y>) (Q3)

Seo, Y., **S. Kim** and V.P. Singh, 2018. "Machine learning models coupled with variational mode decomposition: A new approach for modeling daily rainfall-runoff", *Atmosphere*, Vol. 9, Issue 7, 251. (IF=2.397, 2019) (Cited by 23) (Special Issue: *Integration of Advanced Soft Computing Techniques in Hydrological Predictions*) (<http://www.mdpi.com/2073-4433/9/7/251/>) (Q3)

Seo, Y., **S. Kim** and V.P. Singh, 2018. "Comparison of different heuristic and decomposition techniques for river stage modeling" *Environmental Monitoring and Assessment*, Vol. 190, No. 7, 392. (IF=1.903, 2019) (Cited by 11) (<https://link.springer.com/article/10.1007/s10661-018-6768-2>) (Q3)

Kisi, O., V. Demir, and **S. Kim**, 2017. "Estimation of long-term monthly temperatures by three different adaptive neuro-fuzzy approaches using geographical inputs", *ASCE Journal of Irrigation and Drainage Engineering*, Vol. 143, Issue 12, 04017052. (IF=1.409, 2019) (Cited by 11) ([https://ascelibrary.org/doi/full/10.1061/\(ASCE\)IR.1943-4774.0001242](https://ascelibrary.org/doi/full/10.1061/(ASCE)IR.1943-4774.0001242)) (Q3)

Rezaie-Balf, M., Z. Zahmatkesh and **S. Kim**, 2017. "Soft computing techniques for rainfall-runoff simulation: local non-parametric paradigm vs. model classification methods", *Water Resources Management*, Vol. 31, No. 12, 3843-3865. (IF=2.924, 2019) (Cited by 27) (<https://link.springer.com/article/10.1007/s11269-017-1711-9>) (Q1)

Karimi, S., O. Kisi, **S. Kim**, A.H. Nazemi and J. Shiri, 2017. "Modelling daily reference evapotranspiration in humid locations of South Korea using local and cross-station data management scenarios", *International Journal of Climatology*, Vol. 37, Issue 7, 3238-3246.

(IF=3.928, 2019) (Cited by 25) (<http://onlinelibrary.wiley.com/doi/10.1002/joc.4911/full>) (Q1)

**Kim, S.**, O. Kisi, Y. Seo, V.P. Singh, and C.J. Lee, 2017. "Assessment of rainfall aggregation and disaggregation using data-driven models and wavelet decomposition", *Hydrology Research*, Vol. 48, Issue 1, 99-116. (IF=2.102, 2019) (Cited by 16) (<http://hr.iwaponline.com/content/48/1/99>) (Q2)

Seo, Y., **S. Kim**, O. Kisi, V.P. Singh and K. Parasuraman, 2016. "River stage forecasting using wavelet packet decomposition and machine learning models", *Water Resources Management*, Vol. 30, No. 11, 4011-4035. (IF=2.924, 2019) (Cited by 30)  
(<https://link.springer.com/article/10.1007/s11269-016-1409-4>) (Q1)

**Kim, S.**, Y. Seo and V.P. Singh, 2015. "Assessment of pan evaporation modeling using bootstrap resampling and soft computing methods", *ASCE Journal of Computing in Civil Engineering*, Vol. 29, Issue 5, 04014063. (IF=2.979, 2019) (Cited by 19)  
([https://ascelibrary.org/doi/abs/10.1061/\(ASCE\)CP.1943-5487.0000367](https://ascelibrary.org/doi/abs/10.1061/(ASCE)CP.1943-5487.0000367)) (Q1)

**Kim, S.**, V.P. Singh, C.J. Lee, and Y. Seo, 2015. "Modeling the physical dynamics of daily dew point temperature using soft computing techniques", *KSCE Journal of Civil Engineering*, Vol. 19, Issue 6, 1930-1940. (IF=1.515, 2019) (Cited by 21)  
(<https://link.springer.com/article/10.1007/s12205-014-1197-4>) (Q3)

**Kim, S.**, J. Shiri, V.P. Singh, O. Kisi and G. Landaras, 2015. "Predicting daily pan evaporation by soft computing models with limited climatic data", *Hydrological Sciences Journal*, Vol. 60, Issue 6, 1120-1136. (IF=2.186, 2019) (Cited by 37)  
(<http://www.tandfonline.com/doi/abs/10.1080/02626667.2014.945937>) (Q2)

**Kim, S.** and V.P. Singh, 2015. "Spatial disaggregation of areal rainfall using two different artificial neural networks", *Water*, Vol. 7, Issue 6, 2707-2727. (IF=2.544, 2019) (Special Issue: *Use of Meta-Heuristic Techniques in Rainfall-Runoff Modelling*) (Cited by 16)  
(<http://www.mdpi.com/2073-4441/7/6/2707/html>) (Q2)

Seo, Y., **S. Kim**, and V.P. Singh, 2015. "Estimating spatial precipitation using regression kriging and artificial neural network residual kriging (RKNNRK) hybrid approach", *Water Resources Management*, Vol. 29, No. 7, 2189-2204. (IF=2.924, 2019) (Cited by 34)  
(<https://link.springer.com/article/10.1007/s11269-015-0935-9>) (Q1)

Seo, Y., **S. Kim**, and V.P. Singh, 2015. "Multistep-ahead flood forecasting using wavelet and data-

driven methods", KSCE Journal of Civil Engineering, Vol. 19, Issue 2, 401-417. (IF=1.515, 2019) (Special Issue: *Hydro-Climatological Analysis for Floods and Droughts*) (Cited by 17) (<https://search.proquest.com/openview/59e2831581f2285205436d04ea8e76f1/1?pq-origsite=gscholar&cbl=1496355>) (Q3)

Seo, Y., **S. Kim**, O Kisi, and V.P. Singh, 2015. "Daily water level forecasting using wavelet decomposition and artificial intelligence techniques", Journal of Hydrology, Vol. 520, 224-243. (IF=4.500, 2019) (Cited by 180) (<http://www.sciencedirect.com/science/article/pii/S0022169414009718>) (Q1)

**Kim, S.** and V.P. Singh, 2014. "Modeling daily soil temperature using data-driven models and spatial distribution" Theoretical and Applied Climatology, Vol. 118, Issue 3, 465-479. (IF=2.882, 2019) (Cited by 54) (<https://link.springer.com/article/10.1007/s00704-013-1065-z>) (Q2)

**Kim, S.**, V.P. Singh and Y. Seo, 2014. "Evaluation of pan evaporation modeling with two different neural networks and weather station data", Theoretical and Applied Climatology, Vol. 117, Issue 1-2, 1-13. (IF=2.882, 2019) (Cited by 17) (<https://link.springer.com/article/10.1007/s00704-013-0985-y>) (Q2)

Seo, Y., **S. Kim** and V.P. Singh, 2014. "Assessment of uncertainty in the spatial distribution of rainfall using geostochastic simulation", ASCE Journal of Hydrologic Engineering, Vol. 19, No. 5, 978-992. (IF=1.594, 2019) (Cited by 3) ([https://ascelibrary.org/doi/abs/10.1061/\(ASCE\)HE.1943-5584.0000882](https://ascelibrary.org/doi/abs/10.1061/(ASCE)HE.1943-5584.0000882)) (Q3)

Shiri, J., **S. Kim** and O. Kisi, 2014. "Estimation of daily dew point temperature using genetic programming and neural networks approaches", Hydrology Research, Vol. 45, Issue 2, 165-181. (IF=2.102, 2019) (Cited by 45) (<http://hr.iwaponline.com/content/45/2/165>) (Q2)

**Kim, S.**, V.P. Singh, Y. Seo and H.S. Kim, 2014. "Modeling nonlinear monthly evapotranspiration using soft computing and data reconstruction techniques", Water Resources Management, Vol. 28, No. 1, 185-206. (IF=2.924, 2019) (Cited by 15) (<https://link.springer.com/article/10.1007/s11269-013-0479-9>) (Q1)

**Kim, S.** and V.P. Singh, 2013. "Flood forecasting using neural computing techniques and conceptual class segregation", Journal of the American Water Resources Association, Vol. 49, Issue 6, 1421-1435. (IF=2.472, 2019) (Cited by 13) (<http://onlinelibrary.wiley.com/doi/10.1111/jawr.12093/full>) (Q2)

Kisi, O., **S. Kim** and J. Shiri, 2013. "Estimation of dew point temperature using neuro-fuzzy and neural network technique", Theoretical and Applied Climatology, Vol. 114, Issue 3-4, 365-373. (IF=2.882, 2019) (Cited by 32) (<https://link.springer.com/article/10.1007/s00704-013-0845-9>) (Q2)

**Kim, S.**, J. Shiri, O. Kisi and V.P. Singh, 2013. "Estimating daily pan evaporation using different data-driven methods and lag-time patterns", Water Resources Management, Vol. 27, No. 7, 2267-2286. (IF=2.924, 2019) (Cited by 74) (<https://link.springer.com/article/10.1007/s11269-013-0287-2>) (Q1)

Baba, A.P., J. Shiri, O. Kisi, A.F. Fard, **S. Kim** and R. Amini, 2013. "Estimating daily reference evapotranspiration using available and estimated climatic data by adaptive neuro-fuzzy inference system (ANFIS) and artificial neural network (ANN)", Hydrology Research, Vol. 44, Issue 1, 131-146. (IF=2.102, 2019) (Cited by 62) (<http://hr.iwaponline.com/content/44/1/131>) (Q2)

**Kim, S.**, J. Shiri and O. Kisi, 2012. "Pan evaporation modeling using neural computing approach for different climatic zones", Water Resources Management, Vol. 26, No. 11, 3231-3249. (IF=2.924, 2019) (Cited by 81) (<https://link.springer.com/article/10.1007/s11269-012-0069-2>) (Q1)

**Kim, S.** and H.S. Kim, 2008. "Neural networks and genetic algorithm approach for nonlinear evaporation and evapotranspiration modeling", Journal of Hydrology, Vol. 351, Issues 3-4, 299-317. (IF=4.500, 2019) (Cited by 246) (<http://www.sciencedirect.com/science/article/pii/S0022169407007470>) (Q1)

**Kim, S.** and H.S. Kim, 2008. "Uncertainty reduction of flood stage forecasting using neural networks model", Journal of the American Water Resources Association, Vol. 44, Issue 1, 148-165. (IF=2.472, 2019) (Cited by 36) (<http://onlinelibrary.wiley.com/doi/10.1111/j.1752-1688.2007.00144.x/full>) (Q2)

**Kim, S.**, 2004. "Neural networks model and embedded stochastic processes for hydrological analysis in South Korea", KSCE Journal of Civil Engineering, Vol. 8, Issue 1, 141-148. (IF=1.515, 2019) (Cited by 10) (<https://link.springer.com/article/10.1007%2FBF02829090?LI=true>) (Q3)

**Kim, S.**, 2000. "The long-term inflow analysis of multipurpose reservoirs by the SEAMOD", KSCE Journal of Civil Engineering, Vol. 4, No. 2, 91-101. (IF=1.515, 2019) (Cited by 1) (<https://link.springer.com/article/10.1007/BF02830822>) (Q3)

## **2. Peer Reviewed International Journal Papers: 10 (Published) (SCOPUS)**

**Kim, S.**, Y. Seo, and V.P. Singh, 2016. "Estimating global solar irradiance for optimal photovoltaic system", *Procedia Engineering*, Vol. 154, 1237-1242. (Cited by 3)

(<http://www.sciencedirect.com/science/article/pii/S1877705816318355>)

**Kim, S.**, Y. Seo, and C.J. Lee, 2016. "Modeling of rainfall by combining neural computation and wavelet technique", *Procedia Engineering*, Vol. 154, 1231-1236. (Cited by 5)

(<http://www.sciencedirect.com/science/article/pii/S1877705816318318>)

Seo, Y., and **S. Kim**, 2016. "River stage forecasting using wavelet packet decomposition and data-driven models", *Procedia Engineering*, Vol. 154, 1225-1230. (Cited by 11)

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Park, K.B, Y. Seo, S. Kim and **S. Kim**, 2016. "Surveying for users' pattern and preference of waterfront spaces; Daegu city, South Korea", *American Journal of Applied Sciences*, Vol. 13, No.11, 1096-1103.

Seo, Y. and **S. Kim**, 2016. "Hydrological forecasting using hybrid data-driven approach", *American Journal of Applied Sciences*, Vol. 13, No.8, 891-899. (Cited by 6).

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## **5. Proceeding Papers of Domestic Conference: 102**

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Seo, Y. and **S. Kim**, 2017. "Pan Evaporation Modeling using Deep Learning Theory", Proceedings of KWRA Annual Conference, Proceedings of KWRA Annual Conference, May 25-26, 2017, Changwon Convention Center, Changwon, Republic of Korea, 392-395. (In Korean)

**Kim, S.**, 2017. "Consideration for Mr. Choi's Family influencing Government Policy using Feng-Shui Engineering Approaches", Proceedings of KWRA Annual Conference, May 25-26, 2017, Changwon Convention Center, Changwon, Republic of Korea, 263-263. (In Korean)

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Seo, Y., and **S. Kim**, 2014. "Estimation of Spatial Rainfall Distribution Using Conjunction Model of Regression Kriging, Neural Network and Residual Kriging", Proceedings of KSCE Annual Conference, Oct. 22-24, 2014, Daegu Convention Center, Daegu, Republic of Korea, 933-934. (In Korean)

Seo, Y. and **S. Kim**, 2014. "Estimation of Rainfall Spatial Distribution using Artificial Neural Networks and Spatial Statistical Methods", Proceedings of KWRA Annual Conference, May 15-16, 2014, Pukyong National University, Busan, Republic of Korea, 1-4. (In Korean)

**Kim, S.** and C.J. Lee, 2014. "Deriving Self-Organizing Feature Map for Areal Rainfall Disaggregation using Spatial Concepts", Proceedings of KWRA Annual Conference, May 15-16, 2014, Pukyong National University, Busan, Republic of Korea, 1-4. (In English)

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