김 석 현



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학력

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주요경력

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논문

[Impact Factor/ #Citations]



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- 2. Kim S., Mehrotra R., <u>Kim S.(</u>교신), Sharma A. (2021) Assessing countermeasure effectiveness in controlling cyanobacterial exceedance in riverine systems using probabilistic forecasting alternatives, *J. Water Resour. Plan. Manag.*, 147(10), 04021062, [3.404/0]
- 3. <u>Kim, S.</u>, Sharma, A., Liu, Y., & Young, S. I. (2021). Rethinking Satellite Data Merging: From Averaging to SNR Optimization, *TechRxiv* (submitted to *IEEE TGRS*), [-/0]
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- 5. Zhang R., <u>Kim S.(교신)</u>, Sharma A., Lakshmi V. (2021). Identifying relative strengths of SMAP, SMOS-IC, and ASCAT to capture temporal variability using a model combination approach, *Remote Sens. Environ.*, 252, 112126, [9.085/2]
- 6. <u>Kim S.</u>, Anabalón A., Sharma A. (2021) An Assessment of Concurrency in Evapotranspiration Trends Across Multiple Global Datasets, *J. Hydrometeorol.*, 22(1), 231-244, [3.891/0]
- 7. <u>Kim S.</u>, Pham H., Liu Y., Marshall L., Sharma A. (2020). Improving the combination of satellite soil moisture datasets by considering error cross-correlation: A comparison between triple collocation (TC) and extended

- double instrumental variable (EIVD) alternatives, *IEEE Trans. Geosci. Remote Sens.*, Early Access, 1-11, [5.855/1]
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- 10. Kim T., Ley T., Kang S., Davis J., <u>Kim S.</u>, Amrollahi P. (2020). Using Particle Composition of Fly Ash to Predict Strength and Resistivity of Concrete, *Cem. Concr. Compos.*, 107, 103493, [6.257/8]
- 11. <u>Kim S.</u>, Ajami H., Sharma A. (2020). Using remotely sensed information to improve vegetation parameterization in a semi-distributed hydrological model (SMART) for upland catchments in Australia, *Remote Sens.*, 12(18), 3501, [4.509/0]
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- 14. Hagan D., Wang G., <u>Kim S.</u>, Parinussa R., Liu Y., Ullah W., Bhatti S., Ma X., Jiang T., Su B. (2020). Maximizing Temporal Correlations in Long-Term Global Satellite Soil Moisture Data Merging, *Remote Sens.*, 12 (13), 2164, [4.509/4]
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- Khan U., Ajami H., Tuteja N., Sharma A., <u>Kim S.</u> (2018). Catchment Scale Simulations of Soil Moisture Dynamics Using an Equivalent Cross-Section based Hydrological Modelling Approach, *J. Hydrol.*, 564, 944–966, [4.500/11]
- 21. <u>Kim S.</u>, Paik K., Johnson F., Sharma A. (2018). Building a flood warning framework for ungauged locations using low resolution, open access remotely sensed surface soil moisture, precipitation, soil and topographic information, *IEEE J. Sel. Top. Appl. Earth Obs. Remote Sens.*, 11(2), 375–387, [3.827/16]
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❖ 컨퍼런스

1. Young M., Hayman-Joyce J., <u>Kim S.</u> (2012). Use of Single Layer Concrete Armour Units as Toe Reinforcement, *Coast. Eng. Proc.*, 1 (33), 48, [-/3]

학술대회 (주발표자)

- 1. <u>Kim S.</u>, Zhang R., Sharma A., Lakshmi V. Improvements of satellite observations through data merging: status and challenges, *AGU fall meeting 2020*, San Francisco, CA, USA
- 2. <u>Kim S.</u>, Pham H., Liu Y., Sharma A., Marshall L. Combining geophysical variables for maximizing temporal correlation without reference data, *MODSIM 2019*, Canberra, Australia
- 3. <u>Kim S.</u>(초청), Guo Y., Wasko C., Sharma A. On soil moisture, rain and flood extremes in a warming climate using satellite remote sensing to define future antecedent conditions, *KSCC 2018*, Jeju, Republic of Korea
- 4. <u>Kim S.</u>, Ajami H., Sharma A. Incorporating an operational satellite-derived leaf area index into a computationally efficient semi-distributed hydrologic modelling application (SMART), *MODSIM 2017*, Hobart, Australia
- 5. <u>Kim S.</u>, Liu Y., Johnson F., Sharma A. A temporal correlation-based approach for spatial disaggregation of remotely sensed soil moisture, *AGU fall meeting 2016*, San Francisco, CA, USA
- 6. <u>Kim S.</u>, Liu Y., Johnson F., Parinussa R., Sharma A. Reducing Structural Uncertainty in AMSR2 Soil Moisture Using a Model Combination Approach, *AGU fall meeting 2014*, San Francisco, CA, USA
- 7. <u>Kim S.</u>, Liu Y., Johnson F., Parinussa R., Sharma A. Improvement of Soil Moisture Dataset Combining AMSR2 Soil Moisture Products, *OzEWEX 2014*, Canberra, ACT, Australia

자격증

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수문학/수자원공학, 인공위성 원격탐사, MATLAB, Python, ArcGIS/QGIS

연구경력

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- 2006 년 3 월 2008 년 2 월 **고려대학교** 석사과정
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참여프로젝트

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- 박사과정
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 - · 2015년 5월 2015년 5월: NASA SMAP 토양습윤 데이터 검증 캠페인 (현장 데이터 측정)/Soil Moisture Active Passive Experiment - the 4th campaign (SMAPEx-4)

참고인

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