Hyoseob Noh

Curriculum Vitae

Department of Civil and Envrironmental Engineering
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Education

2019– : **PhD course student, Civil and Environmental Engineering**, *Seoul National University*, Advisor: Prof. Park, Yong Sung.
Machine learning driven surrogate methods for sediment monitoring in riverine and coastal environments

2017–2019 : **Master of Engineering, Civil and Environmental Engineering**, *Seoul National University*, Advisor: Prof. Seo, Il Won.
Development of Empirical Equations and Estimation Method of Transient Storage Model Parameters for Solute Transport in Rivers

2011–2017 : **Bachelor of Engineering, Civil Engineering**, *University of Seoul*.

Publications

Journal Articles

2022 Siyoon Kwon, Jaehyun Shin, Il Won Seo, **Noh, Hyoseob**, Sung Hyun Jung, and Hojun You. Measurement of suspended sediment concentration in open channel flows based on hyperspectral imagery from uavs. ***Advances in Water Resources***, volume 159, page 104076. Elsevier, 2022, **(Impact Factor:5.361 (2021))**, doi:10.1016/j.advwatres.2021.104076.

2022 Siyoon Kwon, Il Won Seo, **Noh, Hyoseob**, and Byunguk Kim. Hyperspectral retrievals of suspended sediment using cluster-based machine learning regression in shallow waters. ***Science of The Total Environment***, volume 833, page 155168. Elsevier, 2022, **(Impact Factor:10.753 (2021))**, doi:10.1016/j.scitotenv.2022.155168.

2022 Byunguk Kim, Siyoon Kwon, **Noh, Hyoseob**, and Il Won Seo. Surrogate prediction of the breakthrough curve of solute transport in rivers using its reach length dependence. ***Journal of Contaminant Hydrology***, page 104024. Elsevier, 2022, **(Impact Factor:4.184 (2021))**, doi:10.1016/j.jconhyd.2022.104024.

2021 **Noh, Hyoseob**, Yong Sung Park, and Minjae Lee. Regional classification of total suspended matter in coastal areas of south korea. ***Estuarine, Coastal and Shelf Science***, volume 254, page 107339. Elsevier, 2021, **(Impact Factor:3.229 (2021))**, doi:10.1016/j.ecss.2021.107339.

2021 Siyoon Kwon, **Noh, Hyoseob**, Il Won Seo, Sung Hyun Jung, and Donghae Baek. Identification framework of contaminant spill in rivers using machine learning with breakthrough curve analysis. ***International Journal of Environmental Research and Public Health***, volume 18, page 1023. MDPI, 2021, **(Impact Factor:4.614 (2021))**, doi:10.3390/ijerph18031023.

2020 **Noh, Hyoseob**, Siyoon Kwon, Il Won Seo, Donghae Baek, and Sung Hyun Jung. Multi-gene genetic programming regression model for prediction of transient storage model parameters in natural rivers. ***Water***, volume 13, page 76. MDPI, 2020, **(Impact Factor:3.530 (2021))**, doi:10.3390/w13010076.

KCI Journal Articles

2022 **Noh, Hyoseob**, GeunSoo Son, Dongsu Kim, and Yong Sung Park. Clustering of sediment characteristics in south korean rivers and its expanded application strategy to h-adcp based suspended sediment concentration monitoring technique. ***Journal of Korea Water Resources Association***, volume 55, pages 43–57. Korea Water Resources Association, 2022, doi:10.3741/JKWRA.2022.55.1.43.

2021 **Noh, Hyoseob** and Yong Sung Park. Identification of shear layer at river confluence using (rgb) aerial imagery. ***Journal of Korea Water Resources Association***, volume 54, pages 553–566. Korea Water Resources Association, 2021, doi:10.3741/JKWRA.2021.54.8.553.

2019 **Noh, Hyoseob**, Donghae Baek, and Il Won Seo. Analysis of the applicability of parameter estimation methods for a transient storage model. ***Journal of Korea Water Resources Association***, volume 52, pages 681–695. Korea Water Resources Association, 2019, doi:10.3741/JKWRA.2019.52.10.681.

In Conference Proceedings

2018 Jaehyun Shin, Il Won Seo, and **Noh, Hyoseob**. Two-dimensional flow analysis model incorporating secondary current effects in meandering channels. In *Proceedings of the Korea Water Resources Association Conference*, pages 140–140. Korea Water Resources Association, 2018.

Research Experience

Seoul National University

June,2019 – present ***Identifying Protein-protein Interaction from Biomedical text***.
Developing a deep multi-modal architecture for accurately predicting protein interaction information from biomedical text.

Advisor : **Dr. abc xyz**, *Associate Professor, Department of Computer Science & Engineering*, IIT abc (*Personal Web-page*)

Fellowships & Awards

2022 The Korean Association of Ocean Science and Technology Societies (**KAOSTS**) 2022 **Future Marine Science and Technology Award**

2022 The Korean Association of Ocean Science and Technology Societies (**KAOSTS**) 2021 **Academic Presentation Excellent Paper Award**

2020 Seoul National University Smart City Competition Encouragement Prize

Skills

Programming Languages: Python, PyTorch, MatLab, C++

Computational Fluid Dynamics: OpenFOAM, Delft3D, iRic, RAMS