

## **Journal Publications**

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7. Pandey, A. K., & Mohapatra, P. K. (2024). 3D Numerical Simulations of the Bed Evolutions at an Open Channel Junction For the Flood Conditions. *Journal of Irrigation and Drainage Engineering* [Accepted]. <https://doi.org/10.1061/JIDEDH/IRENG-1032>
6. Pandey, A. K., & Mohapatra, P. K. (2023). Flow Dynamics and Pollutant Transport at an Artificial Right-Angled Open-Channel Junction with a Deformed Bed. *Journal of Hydraulic Engineering*, 149(4), 04023006. <https://doi.org/10.1061/JHEND8.HYENG-13424>.
5. Pandey, A. K., & Mohapatra, P. K. (2022). Three-dimensional numerical simulation of the flood-wave propagation at a combining open-channel junction. *Journal of Irrigation and Drainage Engineering*, 148(11), 04022038. [https://doi.org/10.1061/\(ASCE\)IR.1943-4774.0001713](https://doi.org/10.1061/(ASCE)IR.1943-4774.0001713).
4. Pandey, A. K., & Mohapatra, P. K. (2022). Discussion of “Mahmodinia, S., & Javan, M.(2021). Vortical structures, entrainment and mixing process in the lateral discharge of the gravity current. Environmental Fluid Mechanics, 21 (5), 1035–1067”. *Environmental Fluid Mechanics*, 22(4), 1025-1033. <https://doi.org/10.1007/s10652-022-09859-0>.
3. Pandey, A. K., & Mohapatra, P. K. (2022). Large eddy simulation of sediment transport in high flow intensity by discrete particle method By B. Zhang; B., Wu; S., Li and Y., Shi, Journal of Hydraulic Research. 59 (4), 2020, 605-620, <https://doi.org/10.1080/00221686.2020.1818306>. *Journal of Hydraulics Research*, 60(1), 182-183. <https://doi.org/10.1080/00221686.2021.1968965>
2. Pandey, A. K., & Mohapatra, P. K. (2021). Reduction of the Flow Separation Zone at Combining Open-Channel Junction by Applying Alternate Suction and Blowing. *Journal of Irrigation and Drainage Engineering*, 147(10), 06021011. [https://doi.org/10.1061/\(ASCE\)IR.1943-4774.0001611](https://doi.org/10.1061/(ASCE)IR.1943-4774.0001611)
1. Pandey, A. K., Mohapatra, P. K., Jain, V., & Bhatia, U. (2020). Studying subcritical opposing channel flows. *Journal of Applied Water Engineering and Research*, 8(4), 262- 276. <https://doi.org/10.1080/23249676.2020.1787247>

## **Conference Proceedings**

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3. Pandey, A. K., & Mohapatra, P. K. (2022). Performances of Different Turbulence Models in Predicting Important Characteristics of Steady Flow in Combined Open Channel Junction. 39th IAHR World Congress-From Snow To Sea, 3848-3857, Granada, Spain. <https://doi.10.3850/IAHR-39WC2521711920221565>
2. Pandey, A. K., Mohapatra, P. K., & Jain, V. (2020). Equivalent Manning’s Roughness in Combining Open Channel Junction Flows. World Environmental and Water Resources Congress 2020: Hydraulics, Waterways, and Water Distribution Systems Analysis, 99-107. <https://doi.org/10.1061/9780784482971.010>
1. Pandey, A. K., and Mohapatra, P. K. (2019). 3D simulation of flow in a right angled channel junction with a pit. In World Environmental and Water Resources Congress 2019: Hydraulics,

Waterways, and Water Distribution Systems Analysis, 144-158.  
<https://doi.org/10.1061/9780784482353.014>

### **Book Chapters**

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Pandey, A.K., Mohapatra, P.K. & Jain, V. (2021). Studying the channel confluence hydraulics using eddy viscosity models and Reynolds stress model. In Recent Advances in Computational Mechanics and Simulations (pp. 295-305). Springer, Singapore. [https://doi.org/10.1007/978-981-15-8315-5\\_26](https://doi.org/10.1007/978-981-15-8315-5_26)