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**List of Publications & Patents**



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[IEEE](#)



[ELSEVIER](#)  
[Elsevier](#)



[Springer](#)

**International Journals**  
**[Accepted/Published]**

1. **Dharavath Ramesh.**, Sai. K., Debadatta. N., & Ramarao. N. (2025). Harnessing HGWO-MultiQoS: A Hybrid Grey Wolf Optimization Approach for QoS-Constrained Workflow Scheduling in IaaS Clouds. [Journal of Simulation Modelling Practice and Theory](#). Vol. 142, 103127. [Elsevier](#), IF: 3.500. **[Q1]**
2. Sreekant S., Ramahcandran M., & **Dharavath Ramesh.** (2025). Harnessing Digital Twins and Industrial-IoT for Cutting-Edge Mining Automation: A Methodological and Technology Assessment Prototype. [Journal of Computers & Industrial Engineering](#). Vol. 201, 110871. [Elsevier](#), IF: 6.700. **[Q1]**
3. Shashi Raj., **Dharavath Ramesh.**, & Prabhakar G. (2025). CrossFIM: A Spark-based hybrid frequent itemset mining algorithm for large datasets. [Cluster Computing](#). Vol. 28(4), 231. [Springer](#), IF: 3.600. **[Q1]**
4. Gabrijel et al. and **Dharavath Ramesh.** (2025). Metal contamination – a global environmental issue: sources, implications & advances in mitigation. [Journal of Royal Society of Chemistry](#). Vol. 15, pages 3904-3927, [RSC Advances](#). IF: 3.900. **[Q2]**
5. **Ramesh. D.**, Naela. R., Srinivasa Rao P. C., Sundararajan. E., Koushik. M., Srivastava. G., & L. Qi. (2024). Improved Chemical Reaction Optimization with Fitness based Quasi-reflection Method for Scheduling in Hybrid Cloud-Fog Environment. [IEEE Transactions on Network and Service Management](#). Vol. 21, Issue 1. [IEEE](#). IF: 4.700. **[Q1]**
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9. Jain. S., **Ramesh, D.**, Edla, D. R., Santosha, R., & Gabrijel Ondrasek. (2024). A Fast high throughput plant phenotyping system using YOLO and Chan-Vese segmentation. [Soft Computing](#), [Springer](#). IF: 3.1. **[Q2]**
10. Rao, G. M., **Ramesh, D.**, Sharma, V., Sinha, A., Hassan, M. M., & Gandomi, A. H. (2024). AttGRU-HMSI: enhancing heart disease diagnosis using hybrid deep learning approach. [Scientific Reports](#), Vol. 14(1), 7833. [Nature Research](#). IF: 3.8. **[Q1]**

11. P. P. Dalvi., Edla, D. R., B. R. Purushothama., & **Ramesh D.** (2024). COVID-19 detection from Chest –X-ray images using a Novel Lightweight Hybrid CNN Architecture. [Multimedia Tools and Applications, Springer](#) 1-22. **IF: 3.00.** **[Q2]**
12. Edla, D. R., Bablani, A., Bhattacharyya, S., **Dharavath, R.**, Cheruku, R., & Boddu, V. (2024). Spatial spiking neural network for classification of EEG signals for concealed information test. [Multimedia Tools and Applications, Springer](#) 1-22. **IF: 3.0.** **[Q2]**
13. R. Mishra., **Ramesh. D.**, Paolo. B., & D. R. Edla. (2023). Redactable Blockchain-Assisted Secure Data Aggregation Scheme for Fog-enabled Internet-of-Farming-Things. [IEEE Transactions on Network and Service Management](#). Vol. 20, Issue 4. **IEEE. IF: 4.700.** **[Q1]**
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16. Yuwen Liu., Huiping Wu., Khosro Rezaee., Mohammad R. Khosravi., Osama Khalaf., Arif Ali Khan., **Dharavath Ramesh** & Lianyong Qi. (2022). Interaction-enhanced and Time-aware Graph Convolutional Network for Successive Point-of-Interest Recommendation in Travelling Enterprises. [IEEE Transactions on Industrial Informatics](#). Vol. 19, Issue 1. **IEEE. IF: 11.700.** **[Q1]**
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29. Debadatta Naik., **Dharavath Ramesh.**, & Naveen B. G. (2022). Enhanced Link Prediction using Sentiment Attribute and Community Detection. [Ambient Intelligence and Humanized Computing](#). Vol. 14, Pp. 4157–4174. Springer, IF: 3.662. [Q2]
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33. Santosh T., **Dharavath Ramesh.**, Achyut S, Prabhishek Singh, Manoj D, & Md. R. Khosravi. (2022). RST-DE: Rough sets-based new differential evolution algorithm for scalable big data feature selection in distributed computing platforms. [Big Data](#), Volume 10. Issue 4. Marry Ann Libert, IF: 2.600. [Q2]
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35. Debadatta Naik., **Dharavath Ramesh.**, Amir H. Gandomi., & Naveen B G. (2021). Parallel and Distributed Paradigms for Community Detection in Social Networks: A Methodological Review. [Expert Systems with Applications](#). Vol. 187,115956. Elsevier, IF: 7.500. [Q1]
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## Book Chapters/Books

### [Accepted/Published]

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## **Patents** **[Granted/Filed]**

1. **Apparatus for Image Capturing and Object Identification** ([Indian IP Granted](#)).  
Design Number & Date: 436750-001 (8<sup>th</sup> November 2024).
2. **Portable Solar Heater** ([Indian IP Granted](#)).  
Design Number & Date: 378678-001 (1<sup>st</sup> June 2023).
3. **Method and Device for Preparing Beverage.** ([Indian IP Granted](#)).  
Patent Number & Date: 202231039594 A (29<sup>th</sup> July 2022).
4. **A system and a method for assessing mental ability of a user using an electroencephalogram.**  
Patent Number & Date: 2021102774 (16<sup>th</sup> March 2022). ([Australian IP Granted](#)).
5. **Smart electricity saving system for home.** ([Australian IP Granted](#)).  
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6. **A Device for removing lacunas of existing image using in painting techniques.**  
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7. **Multilevel automated security system for prevention of accidents at unnamed railway crossings.**  
CBR Number & Date: 10957 (08052017). ([Indian IP](#)).

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