



Dr. Deepthi K

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Qualifications:

- B.Tech in Computer Science & Engineering
- M.Tech in Computer Science & Engineering
- Ph.D. in Artificial Intelligence and Machine Learning

Experience:

- Working as Assistant Professor in College of Engineering Vadakara since 05/03/2007.
- Worked as Assistant Professor in AWH Engineering College, Calicut for one year.
- Total service: 15 years

Areas of Interest:

- Artificial Intelligence & Machine Learning
- Bioinformatics
- Computational Biology
- Algorithms

Positions held:

- Currently HoD in charge
- NAAC Criteria Coordinator
- CUSAT Exam Cell Chief during 2014-16
- Series Exam Committee member
- Co-operative store committee member
- Timetable Coordinator of CS department during 2015-16
- Class Advisor of 2008-11 batch and 2013-17 batch

Subjects Taught:

- C Programming, Datastructures, Database Management System, Theory of Computation, Operating Systems, Compiler Design, Computer Architecture and Organization, Analysis and Design of Algorithms, Computer Networks, Cryptography and Network Security.
- C Programming Lab, Networking and Operating System Lab, Data structures Lab, Compiler Construction Lab

Journal Publications:

1. **Deepthi, K., Jereesh, A. S., & Liu, Y. (2021).** A deep learning ensemble approach to prioritize candidate drugs against novel coronavirus 2019-nCoV/SARS-CoV-2. *Applied Soft Computing* (**SCI, Elsevier, IF: 8.3**)
2. **Deepthi, K., & Jereesh, A. S.** Inferring potential CircRNA–disease associations via deep autoencoder-based classification. *Molecular Diagnosis & Therapy*, 25(1), 87-97 (**SCI, Springer, IF: 4.5**).
3. **Deepthi, K., & Jereesh, A. S. (2020).** An ensemble approach for CircRNA-disease association prediction based on autoencoder and deep neural network. *Gene*, 762, 145040 (**SCI, Elsevier, IF: 4.0**).
4. **Deepthi, K., & Jereesh, A. S. (2021).** An Ensemble Approach Based on Multi-Source Information to Predict Drug-MiRNA Associations via Convolutional Neural Networks. *IEEE Access*, 9, 38331-38341 (**SCI, IEEE, IF: 3.5**).
5. **Deepthi, K., & Jereesh, A. S. (2020).** Drug repositioning based on the target microRNAs using bilateral-inductive matrix completion. *Molecular Genetics and Genomics*, 295(5), 1305-1314 (**SCI, Springer, IF: 3.0**).
6. **Deepthi, K., & Jereesh, A. S. (2021).** Drug Repositioning Based on Heterogeneous Network Inference. *Advances in Intelligent Systems and Computing*, Springer. 1165 (1) 1143-1151. (**Springer, Scopus & UGC-CARE**)
7. Deepthi et al. (2017) Compact Network-Attached Storage with Cloud. *International Journal of Research and Analytical Reviews*. 4(3), 21-23. (**UGC-CARE**)
8. Deepthi et al. (2020) Drug–Disease Association for Drug Repositioning Using Machine Learning. *International Journal of Innovative Science and Research Technology*, 5(4). (**Peer reviewed International Journal**)
9. Deepthi K (2017) Search Engine Optimization. *International Journal of Research in Engineering and Technology*, 8(1). (**Peer reviewed International Journal**)
10. Deepthi et al. (2017) Cloud Storage Data Deduplication with Encryption. *International Journal of Advanced Research in Computer Science*, 8(1). (**Peer reviewed International Journal**)
11. Deepthi et al. (2017) Object Detection using Background Subtraction Tolerating Sudden background variations. *International Journal on CS and IT*, 8(2). (**Peer reviewed International Journal**)
12. Deepthi et al. (2018) Data mining in Cyber Crime Analysis. *International Journal of Scientific Research (IJSR)*. (**Peer reviewed International Journal**)

Journals Communicated

- **Deepthi, K., & Jereesh, A. S (2022).** Combating COVID-19 with Artificial Intelligence based Drug Repurposing
- Arjun Sanker, **Deepthi, K., & Jereesh, A. S. (2022).** CNN, Genetic Algorithm and Sparse Autoencoder-based composite Feature Extractor for CircRNA-Disease association prediction.

Achievements

- **Patent**

Granted: 1

Filed: 1

- Editorial Board member of the international journal “Biotechnology and Bioinformatics” of Mediterranean Journal series, published from the USA.
- Editorial Board member of the journal journal-of-pharmaceutical-sciences-and-drug-discovery.
- Best Research Award (2020) for new science inventions, by the Science Father group (Reg. No. 130116), Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India.
- Qualified UGC-NET on Dec-2015.
- Qualified GATE in 2010, 2011,2012, 2015 and 2017

Conferences co-ordinated:

- National Conference on Recent Innovations in Data Science in 2016(NCDS'16).

Professional Body Memberships:

- Life Member of The Indian Society for Technical Education (ISTE)
- Member of IEEE(IEEE)
- Member Computer Society of India(CSI)