KOTTILINGAM KOTTURSAMY

Assistant Professor, Department of Computer Technology, Anna University, MIT Campus, Chennai, India.
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91-7358089612

https://scholar.google.co.in/citations?user=p5D_B-UAAAAJ&hl=en

Senior Member- IEEE, and ASCI- India

Research Interest: Next-Generation Wireless Networks, Artificial Intelligence and Computational Biology

Educational Qualification:

- ❖ Ph.D., (**Thesis Title: - Enhanced Mobile Data Synchronization And Retrieval Mechanisms For Next Generation Data Networks**) Information and Communication Engineering (2017), Anna University,India
- ❖ M.E,ComputerScienceand Engineering(2009),Anna University, India
- ❖ B.E, Computer Science and Engineering(2006)fromAnna University, India

Working Experience:

- ❖ 2023- Assistant Professor- Department of Computer Technology, Anna University, Chennai-44, India.
- ❖ 2017-2023:-Associate Professor, School of Computing, SRM Institute of Science and Technology,India.
- ❖ 2010-2017: - Teaching fellow, Department of Computer Technology, Anna University, India.
- ❖ 2009-2010:-Lecturer,S.V.Collegeof Engineering and Technology, Puliangudi, Tamilnadu, India.

Courses:

- ❖ Database ManagementSystems
- ❖ Advanced Database Technology
- ❖ Database Administration
- ❖ Database Tuning
- ❖ Computer Networks
- ❖ Network Protocols

Skillset:

- ❖ SQL
- ❖ Python

References:

1. Dr. R. Gunasekaran,
Director, IQAC and Professor,
Department of Computer Technology, Anna University, Chennai, India.
gunamit@annauniv.edu

Selected Publications:

- ❖ Raja, K., Kottursamy, K., Ravichandran, V., Balaganesh, S., Dev, K., Nkenyereye, L. and Raja, G., 2024. An Efficient 6G Federated Learning-enabled Energy-Efficient Scheme for UAV Deployment. *IEEE Transactions on Vehicular Technology.* **(Impact Factor- 6.1)**
- ❖ Kottursamy, K., Sadayapillai, B., AlZubi, A.A. and Bashir, A.K., 2023. A novel blockchain architecture with mutable block and immutable transactions for enhanced scalability. *Sustainable Energy Technologies and Assessments*, *58*, p.103320. **(Impact Factor- 7.1)**
- ❖ Raja, G., **Kottursamy, K**., Dev, K., Narayanan, R., Raja, A. and Karthik, K.B.V., 2022. Blockchain-Integrated Multiagent Deep Reinforcement Learning for Securing Cooperative Adaptive Cruise Control. *IEEE Transactions on Intelligent Transportation Systems***. (Impact Factor- 9.5)**
- ❖ Arirangan, S. and **Kottursamy, K**., 2021. Multi-scaled feature fusion enabled convolutional neural network for predicting fibrous dysplasia bone disorder.**Expert Systems, p.e12882. (Impact Factor- 2.5)**
- ❖ Saranya, A., **Kottursamy, K.,** AlZubi, A.A. and Bashir, A.K., 2021. Analyzing fibrous tissue pattern in fibrous dysplasia bone images using deep R-CNN networks for segmentation. **Soft Computing, pp.1-15. (Impact Factor-3.7)**
- ❖ **Kottursamy, K**., Sadayappillai, B. and Raja, G., 2021. Optimized D-RAN Aware Data Retrieval for 5G Information-Centric Networks. **Wireless PersonalCommunications,pp.1- 22**. **(Impact Factor 2.0)**
- ❖ Banupriya, **S., Kottursamy**, K. & Bashir, A.K. Privacy-preserving hierarchical deterministic key generation based on a lattice of rings in public blockchain. **Peer-to-Peer Netw. Appl. (2021). (Impact Factor-3.4)**
- ❖ Prakash, U.M., **Kottursamy, K**., Cengiz, K., Kose, U. and Hung, B.T., 2021. 4x-expert systems for early prediction of osteoporosis using multi-model algorithms. **Measurement, 180, p.109543. (Impact Factor-5.1)**
- ❖ Shanthini, A., Manogaran, G., Vadivu, G**., Kottilingam, K**, Nithyakani, P. and Fancy, C., 2021. Threshold segmentation-based multi-layer analysis for detecting diabetic retinopathy using convolution neural network. **Journal of Ambient Intelligence and Humanized Computing, pp.1-15. (Impact Factor- 3.8)**
- ❖ Gunasekaran Raja, **Kottilingam Kottursamy**, "Dynamic Polygon Generation for Flexible Pattern Formation in Large-Scale UAV SwarmNetworks"Presentedin**IEEE GLOBECOM, Taipei, Taiwan, 2020**
- ❖ Ponnusamy, V**., Kottursamy, K**., Karthick, T., Mukeshkrishnan, M.B., Malathi, D. and Ahanger, T.A., 2020. Primary user emulation attack mitigationusingneuralnetwork.**Computers & Electrical Engineering, 88, p.106849. (Impact Factor-4.1)**
- ❖ Vijayakumar, K.P., Pradeep Mohan Kumar, K., **Kottilingam, K**, Karthick, T., Vijayakumar, P. and Ganeshkumar, P., 2019. An adaptive neuro-fuzzy logic-based jamming detection system in WSN. *Soft Computing*, *23*(8), **pp.2655-2667. (Impact Factor- 3.7)**
- ❖ Rajagopal, R.D., Murugan, S., **Kottursamy, K**. and Raju, V., 2019. Cluster based effective prediction approach for improving the curable rate of lymphatic filariasis affected patients. *Cluster Computing*, *22*(1), pp.197-205. **(Impact Factot-2.3)**

2. Dr. P. Jayashree, *Professor and Head, Department* *of Computer Technology, Anna* *University, Chennai, India,* *pjshree@annauniv.edu*	❖ **Kottursamy, K**., Raja, G., Padmanabhan, J. and Srinivasan, V., 2017. An improved database synchronization mechanism for mobile data using software-defined networking control. *Computers & Electrical Engineering*,*57*,pp.93-103. **(Impact Factor- 4.1)**

Funded Projects:

- ❖ Co-Principal Investigator, "Prognosis of Microaneurysm and early diagnosis system for non - proliferative diabetic retinopathy using deep convolutional neural network", with **University of California, Davis Campus, Sanctioned for an amount of 59.92 IKS** Under SPARC-IITK, MHRD, and Government of India

- ❖ Automatic Software defect identifier, **SAMSUNG PRISM, Samsung India. (749 USD)**

- ❖ ICoach: An Intellect Personalized Sports Procoach, SRMIST, KTR, Duration 15-07-22 to 15-12-2023 **(1.99 lks)**

Patents

- ❖ Monitoring Environmental Applications Using Arduino For Designing Wireless Sensor Network Systems, Published Auguts-2020.

- ❖ Threshold segmentation based Multi-layer Analysis for Detecting Diabetic Retinopathy using Convolutional Neural Network, Published September-2020.

- ❖ A Jamming Detection System For A Wireless Sensor Network (WSN), Published September-2019.

International Collaborations

- ❖ Prof. Vijayan Sugumaran, Oakland University, USA

- ❖ Prof. AK Bashir, Manchester City University, UK

- ❖ Prof. Nirmala Shenoy, Rochester Institute of Technology, NY 14623, USA

- ❖ Prof. ASM Kayes, La Trobe University, Australia

- ❖ Prof. PDD. Dominic, Universiti Teknologi PETRONAS (UTP)

- ❖ Prof. Korhan Cengiz, Trakya University,Turkey.

- ❖ Prof, Keping Yu, Waseda University, Japan

Recent Workshops and Training

- ❖ Next Big Thing on AI- International Online Conclave Role-Coordinator & Moderator, Nov-2022

- ❖ DST Sponsored Science Administration and Research Management, ASCI, Hyderabad. Role- Participating Scientist, Sep-2022

- ❖ DGX Ideation Workshop – NVIDIA, Role-Coordinator, Sep-2022

- ❖ JETSON Nano WORKSHOP-NVIDIA, Role- Coordinator, Aug-2022

- ❖ Speaker, ATAL Workshop, PSREC, 2021

Roles and Activities

- ❖ QS Coverage and International Reach, SCO, SRMIST, August -2022 Onwards

- ❖ Moderator and Co-Ordinator- Next Big Thing on AI- International Online Conclave, Nov-2022.

- ❖ Co-Ordinator, Accelerated AI Computing Lab, Powered by NVIDIA, SRMIST, KTR. (2021 Onwards)

- ❖ Convenor, ICONDEEPCOM-2022, SRMIST, KTR (2022)

- ❖ Member Board of Studies, Thiruvallur University, India (2019-2020)

- ❖ Coordinator, "Webinar on Writing and Submitting proposals to DST, TDP Schemes by Dr. Anita Agarwal, Scientist, DST" October 2020

- ❖ Faculty Advisor, SRMIST, (2017-2020)

- ❖ Student Branch Counselor, Computer Society of India, SRMIST (2017-2020)

- ❖ Placement Coordinator, SRMIST (2020 Onwards)

- ❖ Training Coordinator, Road2Dream, Hackerrank, SRMIST (2020 Onwards)

- ❖ Faculty In-charge, Distributed Computing Lab, MIT, Anna University (2010-2017)

- ❖ Served as an IV(Industrial Visit) Escort for the students of 2009-2012 R and S Batch

- ❖ Research Scholar In-charge, NGNLabs, MIT, Anna University

- ❖ Faculty Advisor, Department of Computer Technology, Anna University, India (2011-2015)

- ❖ Served as a Faculty Adviser for PG Fulltime M.E students of Batch 2009-2011 for one semester

- ❖ Travel in charge of the expert members visiting in and around the country for ICoAC 2010-2016, Workshops, and Guest lectures, MIT Campus, Anna University.

- ❖ Faculty, Part-time classes from 2010-2016, MIT Campus, Anna University

- ❖ Staff In charge for Distributed computing Lab, Department of Computer Technology, MIT Campus (2010-2017)

- ❖ Taken Various University Question papers related to Database Management Systems, Database Tuning and Computer Networks, and Mobile and Pervasive Computing.

- ❖ Served as a Residential Counselor for Birla hostels, MIT, and Anna University during 2010-2011.

- ❖ Served as an Anti-ragging member in MIT Hostels.

- ❖ Acted as a Hall Invigilator for TANCET, IIT-JEE, and GATE Exams in MIT Campus.

Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge

Place : Anna University, Chennai

Date : 27.12.2024   KOTTILINGAM KOTTURSAMY