Dr. Sunil Kumar P V

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Date of Birth: 21st March 1983

Nationality: Indian

Education

2013–2019	PhD in Computer Science and Engineering Area of Specialisation: Machine learning in Bioinformatics National Institute of Technology Calicut, India. Thesis defended on 17-09-2019
2009–2011	Master of Engineering in Computer Science and Engineering College of Engineering Guindy, Chennai, India. CGPA- 8.4
2000–2004	Bachelor of Technology in Information Technology University of Calicut, India Marks–65%

Employment History

June 2020–Present	Vellre Institute of Technology Vellore. Assistant Professor, in School of Computer Science and Engineering (SCOPE)
July. 2019–April 2020	CMR Institute of Technology Bangalore. Associate Professor in Department of Computer Science and Engineering
Oct. 2006–Dec. 2013	MES College of Engineering, Kuttippuram, India. Assistant Professor in Department of Computer Science and Engineering **Major Responsibilities Handled:** •Assistant Superintendent for university examinations •Faculty in charge for Department Association **Achievements:** •Received Best Faculty of CSE Department Award form for the academic year 2011-12.
Mar. 2005–Sep. 2006	MEA Engineering College, Perintalmanna, India. Lecturer in Department of Computer Science and Engineering

Publications

Peer Reviewed Journals

1. Athira K, Sunil Kumar P V, Manju M, Gopakumar G, "Detection of Stage-wise Biomarkers in Lung Adenocarcinoma Using Multiplex Analysis", *Current Bioinformatics*, vol. 18, Issue. 6, DOI: 10.2174/1574893618666230228112411, 2023.

2. Athira K, Vrinda C, Sunil Kumar P V and Gopakumar G, "Identification of Biomarkers and Functional Modules from Genomic data in Stage-wise Breast Cancer", *Current Bioinformatics*, vol. 16, Issue. 5, DOI: 10.2174/1574893615999200922123104, 2021.

3. Sunil Kumar P V, Adheeba Thahsin, Manju M and Gopakumar G, "A Heterogeneous Information Network Model for Long Non-Coding RNA Function Prediction", *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, VOL. 19, NO. 1, JANUARY/FEBRUARY 2022.

4. Sunil Kumar P. V, Manju M., Gopakumar G., "Function Prediction of Cancer-related LncRNAs Using Heterogeneous Information Network Model", *Int. J. Datamining and Bioinformatics*, vol. 21, no. 4, 2018. https://www.inderscience.com/info/inarticle.php?artid=98940

5. Sunil Kumar P. V., Gopakumar G. "Inferring Disease and Pathway Associations of Long Non Coding RNAs using Heterogeneous Information Network Model", *Journal of Bioinformatics and Computational Biology*, vol. 17, no. 4, 2019.

6. T. Raghuveera, P. V. S. Kumar and K. S. Easwarakumar, "Adaptive Linear Prediction Augmented Autoregressive Integrated Moving Average Based Prediction for VBR Video Traffic", *Journal of Computer Science*, vol. 7, no. 6, pp. 871–876, 2011. DOI: 10.3844/jcssp.2011.871.876. https://thescipub.com/abstract/10.3844/jcssp.2011.871.876

7. Sunil Kumar P V, "An ARIMA Based Approach for Traffic Prediction". *International Journal of Computer Applications"* vol. ICIST(1) no. 7, no. 10, pp.7–10, 2011. https://www.ijcaonline.org/proceedings/icist/number1/3261-icist016

International Conferences

1. Sajan Kumar, Sarvesh Shrof Sobin C. C., Sunil Kumar, and Geevar C. Zacharias "A Deep Learning Based Approach for Pin-Pointing DNA-Binding in Protein Mutations" in 4th International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT-2021), December 10-11, 2021

2. P. V. Sunil Kumar and G. Gopakumar, "Relrank: An algorithm for relevance-based ranking of meta-paths in a heterogeneous information network," in 2018 IEEE Recent Advances in Intelligent Computational Systems (RAICS), pp. 98–102, Dec 2018. DOI: 10.1109/RAICS.2018.8635053 https://ieeexplore.ieee.org/document/8635053

3. Sunil Kumar P. V. "An ARIMA based model for the real time prediction of VBR video traffic", in Proc. of 2nd Int. Conf. on Informtion Stsytems and Technology, ICIST-2011, 16-17 May 2011, Thrissur, India.

Invited Lectures Delivered

1. "Mathematical Foundations for Modern Cryptography" at TEQIP-II Sponsored Faculty Development Program at Government Engineering College, Idukki, India on 8 Oct. 2013.

2. "Mathematical Applications in Computer Science" organized by Department of Mathematics Government Brennen College, Dharmadam, Thalassery, India on 5 Feb. 2015.

3. "Essential Maths for Cryptography" at at TEQIP-II Sponsored Faculty Development Program at Government Engineering College, Idukki, India on 11 Nov. 2015.

4. "Latex Workshop" at SCMS Polytechnic College, Perumbavoor, India, 16 Feb. 2018.

5. "Latex Workshop" at KMCT College of Engineering for Women, Calicut, India, 7 Feb. 2019.

Voluntary Work

1. Served as volunteer for 2015 IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems, organized by IEEE Kerala Section and NIT Calicut, held at NIT Calicut during Feb. 19-21, 2015.

2. Served as volunteer for MHRD TEQIP-II FDP on Big Data Analytics – Tools and Techniques organized by NIT Calicut held on 27 Feb. – 4 March, 2017.

Training/Professional Development

1. TEQIP Sponsored Short Term Training Programme on Induction Training for Teachers, organized by Cente for Continuing Education, SCT College of Engineering, Thiruvanathapuram, June 26-30, 2006.

2. ISTE Sponsored Staff Development Programme on Linux Secrets organized by Department of Computer Science and Engineering, MES College of Engineering Kuttippuram, on 20-24 Aug. 2007.

3. TEQIP Sponsored Workshop on Recent Trends in Computer Architecture, Department of Computer Science and Engineering, NIT Calicut, Aug. 8, 2008.

4. MHRD-AICTE Approved FDP on Embracing Innovative E-Learning Technologies, organized by Education Technology and Library, NIT Calicut, Dec. 14-27, 2008.

5. ISTE Workshop on Software Development Techniques for Teachers of Engineering and Science Institutes, organised by IIT Bombay, 5 Nov. to 4 Dec. 2011 (5 weekends).

6. Workshop on Research and Project Ideas in Data Mining using RAPIDMINER, Department of CSE, Coimbatore Institute of Engineering and Technology, Coimbatore, 10-11 Oct. 2013.

7. MHRD TEQIP-II Sponsored (AICTE Appoved) FDP on Advanced Operating Systems organized by Department of Computer Science and Engineering, NIT Calicut, 29 June to 4 July 2014.

8. TEQIP-II Sponsored Workshop on Big Data Analytics and Bioinformatics organized by Department of Computer Science and Engineering, NIT Calicut, Sep. 3-4, 2014.

9. TEQIP-II Sponsored Workshop on Big Data Analytics and Bioinformatics, Phase-II organized by Department of Computer Science and Engineering, NIT Calicut, Feb. 16-18, 2014.

10. Bioinformatica Indica 2016, International Symposium organized by Department of Computational Biology and Bioinformatics, University of Kerala, Thiruvananthapuram Jan. 07-09, 2016.

11. TEQIP-II Sponsored Computer Science Conference of All NITS (CSCAN-16), organized by Department of Computer Science and Engineering, NIT Calicut, Feb. 20-21, 2016.

12. Workshop on Exploring Gene Expression Data Using Transcriptome and Microarrays, organized by Rajiv Gandhi Center for Biotechnology (Government of India) Thiruvananthapuram, April 18-20, 2016.

13. MHRD TEQIP-II Sponsored Workshop on Research Writing: Technical and Language Aspects, organized by Department of Mechanical engineering, NIT Calicut, Feb. 11, 2017.

14. TEQIP-II Sponsored National Level Colloquium on Research Opportunities in Computer Networks organized by Department of Computer Science and Engineering and Information Technology, March 4, 2017.

15. TEQIP FDP on High Performance Computing – Latest Trends and Application, organized by Departments of Computer Science and Engineering, Chemistry, Physics, NIT Calicut, Mar. 9-11, 2017.

16. 4th IIT Madras- Tokyo Tech Joint Symposium on Frontiers in Bioinformatics: Large Scale Data Analysis, Resources and Drug Design, organized by Deperment of Biotechnology, IIT Madras, Nov. 10-11, 2017.

17. GIAN Course on Data and Text Mining in Bioinformatics, organized by Department of Computer Science and Engineering, NIT Calicut, Sep. 10-14, 2018.

Skills

Programming: C, C++, R, Python

Tools: Cytoscape, Latex

Languages: English, Malayalam, Hindi, Tamil

Interests

- Music
- Sports

Referees

Name: Dr. Gopakumar G.

Designation: Assistant Professor

Department: Computer Science and Engineering

Organization: NIT Calicut, Kerala, India.

E–Mail: gopakumarg@nitc.ac.in

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Name: Dr. P. Vinod Bhattathiripad

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