

Profile

Dr. C. P. SHIRLEY

Assistant Professor (SG),
Department of Computer Science and Engineering

Karunya Institute of Technology and Sciences (Deemed to be
University)



email id: shirleydavidlivingston@gmail.com

ORCID: <https://orcid.org/0000-0002-8263-0238>

Academic Background

Degree	University	Year
Ph.D	Anna university	2020
M. E	Dr. M. G. R. Educational and Research Institute	2008
B. E	Manonmanium Sundaranar Unuversity	2002

Courses Taught

- Computer Networks
- Machine Learning
- Mobile Application Development
- Data Science
- Operating Systems
- Artificial Intelligence
- Database Management Systems
- Distributed Computing
- Cloud Computing

Research Interests

- Machine Learning
- Artificial Intelligence
- Image Processing
- Pattern Recognition

Total Teaching Experience

- 22 Years

Additional Expertise

- Chair Person in IEEE Conference
- Member of Advisory Committee in Technical Symposium
- Reviewer in High Indexed Journals

Publications

Journals

1. **Shirley, C P**, Lenin Fred, A & Ram Mohan, NR 2016, 'Video key frame extraction through wavelet information scheme', ARPN Journal of Engineering and Applied Sciences, vol. 11, no. 7, April, ISSN 1819-6608.
2. **Shirley, C P**, Lenin Fred, A & Smitha, RS 2016, "Biologically inspired feature extraction for human face recognition using multi angle movement", Asian Journal of Research in Social Sciences and Humanities, vol.6, no. 9, pp. 1313-1329.
3. **Shirley, C P**, Lenin Fred & Chitra, B 2017, "Vector quantized optimal stage wise frame classifier for human face recognition", Biomedical Research; vol. 28(9), pp. 4139-4146, ISSN 0970-938X.
4. **Shirley, C P**, Ram Mohan NR, & Chitra B, 2021, "Gravitational search-based optimal deep neural network for occluded face recognition system in videos", Multidimensional Systems and Signal Processing, vol. 32, no. 1, pp. 189-215.
5. Boojhana Elango, **C.P. Shirley**, Gunadhora Singh Okram, Thiyagarajan Ramesh, Kamala-Kannan Seralathan, Maghimaa Mathanmohun, "Structural diversity, functional versatility and applications in industrial, environmental and biomedical sciences of polysaccharides and its derivatives – A review", International Journal of Biological Macromolecules, Volume 250,2023,126193,ISSN 0141-8130,

<https://doi.org/10.1016/j.ijbiomac.2023.126193>.

<https://www.sciencedirect.com/science/article/pii/S0141813023030891>

6. **C P Shirley**, Kantilal Rane, Kolli Himantha Rao, B Bradley Bright, Prashant Agrawal and Neelam Rawat, “Machine learning and Sensor Based Multi Robot System with Voice Recognition for Assisting the Visually Impaired”, *Journal of Machine and Computing* 3(3) (2023), 2023, ISSN: 2788–7669.
7. Sujatha Gaddam, K P Senthilkumar, B Kalpana, R Prabhakaran, Sridhar Ranganathan, S V Evangelin Sonia, Aatif Jamshed, **C P Shirley**, “Empowering Cancer Diagnosis through IoT and Machine Learning Approaches”, *Eur. Chem. Bull.* 2023, 12(Special Issue 4), 15847-15863.
8. Amar B. Deshmukh, Anjali M. Solanke, Sumagna Patnaik, **C. P. Shirley**, S.V. Evangelin Sonia, N. Jagadeesan, 2023, ‘Individual Cardiac Risk Assessment for A Smart Device Using Deep Learning’, *UGC Care – Group- I*
9. T. Rajasekaran¹, Vempati Krishna, P. Dinshi, Rohit Kumar, Gurwinder Kaur, **C. P. Shirley**, 2023, ‘Machine Learning Algorithm for Crop Diseases Diagnosis and Identification’, *UGC Care – Group - I*
10. T. Rajasekaran, Santosh kumar, R Umapriya, K. P. Vetrivel, **C. P. Shirley**, V. Nirmala, 2023, ‘A Smart Irrigation System Based on Machine Learning for Efficient Plant Development’, *UGC Care – Group - I*
11. P. Nagendra saiprasad, V. Aswini, Ashim Bora, T. Rajan, **C.P. Shirley**, T.A. Raja, 2023, “IoT And Python Based Smart Agriculture System for Effective Plant Growth”, *UGC Care – Group – I*
12. **C. P. Shirley**, J Immanuel John Raja, S. V. Evangelin Sonia & I. Titus, “Recognition and monitoring of gas leakage using infrared imaging technique with machine learning”, *Multimedia Tools Applications* (2023). <https://doi.org/10.1007/s11042-023-17131-w>
13. **Shirley, C.P.**, Kumar, Jaydip & Rane, Kantilal & Kumar, Narendra & Radha Rani, Deevi & Harshitha, Kuntamukkula & Tiwari, Mohit. (2023). “IoT device type identification using training deep quantum neural networks optimized with a chimp optimization algorithm for enhancing IoT security”. *Journal of High Speed Networks.* 1-11. 10.3233/JHS-230028.
14. Shirley C. P., Jagannath Patar, P. Kavitha rani, Sumit Saini, Jarabala Ranga, D. Elangovan, Ch. Venkatakrishna Reddy, (2024), “Microgrids with day-ahead energy forecasting for efficient energy management in smart grids: hybrid CS-RERNN”, *Australian Journal of Electrical and Electronics Engineering*, DOI: 10.1080/1448837X.2024.2312488

Conferences

1. **C. P. Shirley**, S. V. Evangelin Sonia, V. Sathya, N. Mannikandan, M. K. Vidhyalakshmi, Ch. Venkata Krishna Reddy, “Blockchain and Deep Learning Development of Smart Charging of Electric Vehicles to Meet the Demand Side Management”, 2023, Proceedings of the International Conference on Sustainable Computing and Data Communication Systems (ICSCDS-2023) IEEE Xplore Part Number: CFP23AZ5-ART; ISBN: 978-1-6654-9199-0
2. **Shirley C.P.**, Napshala Joshi A, Gokula Lakshmi G, “A Transfer Learning Based Classification of Nephrolithiasis Using Ct Scan Images Employing Machine Learning with Computer Vision”, 2023, International Conference on Soft Computing for Security Applications (ICSCS 2023), Springer
3. **Shirley C P**, Sharon Natasha Francis, “EaseIt, An android-based Health Monitoring Mobile Application: An Implementation of Mobile Health and Telemedicine”, 2023, International Conference on Pervasive Computing and Social Networking (ICPCSN 2023), IEEE
4. Malaika Samuel, **C.P. Shirley**, “Mindset, An Android-Based Mental Wellbeing Support Mobile Application”, 2023, International Conference on Pervasive Computing and Social Networking (ICPCSN 2023), IEEE
5. Sallagunta Raahul, Tharun Chamarthi, **C.P. Shirley**, Ippala Murali Srinivasa Reddy, Kadivella Moneesh Sai, “Distinguishing Identical Twins using Face Recognition”, 2023, International Conference on Innovative Research in Science and Technology (IRST-2023), IEEE

Book Chapters

1. Johnraja, J.I., Leelipushpam, P.G.J., **Shirley, C.P.**, Princess, P.J.B. (2024). Impact of Cloud Computing on the Future of Smart Farming. In: Balasubramanian, S., Natarajan, G., Chelliah, P.R. (eds) Intelligent Robots and Drones for Precision Agriculture. Signals and Communication Technology. Springer, Cham. https://doi.org/10.1007/978-3-031-51195-0_18
2. Elango, Elakkiya, Natarajan G, Hanees A, **Shirley Chellathurai Pon Anna Bai**, "The Roadmap to AI and Digital Twin Adoption." In *Digital Twin Technology and AI Implementations in Future-Focused Businesses*, edited by Sivaram Ponnusamy, et al., 243-264. Hershey, PA: IGI Global, 2024. <https://doi.org/10.4018/979-8-3693-1818-8.ch017>

Text Books

1. Mrs. S. V. Evangelin Sonia, **Dr. C. P. Shirley**, Dr. R. Priscilla Joy, 'Data Mining and Data Warehousing', 2023, Charulatha Publications, ISBN-13: 978-93-5577-997-7.
 2. Dr. R. Shobana, Mrs. S. V. Evangelin Sonia, **Dr. C. P. Shirley**, Dr. R. Venkatesan, 'Machine Learning', 2023, ISBN 978-93-5749-844-9.
 3. Neelam Labhade-Kumar, Suyog Vinayak Pande, **Dr. C. P. Shirley**, Deepak Bansal, 'Artificial Intelligence', 2023, ISBN 978-93-5749-840-1.
 4. Dr. Julia Pnitha Malar Dhas, Dr. Jagendra Singh, **Dr. C. P. Shirley**, S.V. Evangelin Sonia, 'Data Science', 2023, ISBN 978-93-5749-852-4.
 5. V. S. Karpagavalli, **Dr. C. P. Shirley**, Dr. S, Shirly, Mrs. R. Golden Nancy, 'Research Methodology', 2023, ISBN 978-93-5749-833-3.
 6. **C. P. Shirley**, "Principles of Modern Communication Systems", I.T. Publications (For Polytechnic Students), 2008.
-