

Faculty Profile

Mr. P. Joyce Beryl Princess, M.E., (Ph.D.)

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Academic Background

Degree	University	Year
Ph.D.	Karunya Institute of Technology and Sciences (Deemed University)	Pursuing
M.E	SCAD College of Engineering and Technology	2010
B.E	Karunya Institute of Technology (Autonomous)	2006

Courses Taught

- Python Programming
- Computer Networks
- Operating Systems
- Distributed Systems
- Computer Organization and Architecture
- Database Management Systems
- Data Structures and Algorithms
- Embedded Systems
- Mobile and Pervasive Computing
- Internet Programming
- Web Technology

Research Interests

- Machine Learning and Deep Learning
- Computer Vision and Image Processing

Memberships in Professional societies

Life time member of

- ISTE
- ISRD
- IAENG

Most recent Publications

Journal

1. "Tri-Chrome texture pattern: A new feature descriptor", International Journal of Engineering and Technology (UAE), 7(2) , pp.15-20,2018.
2. "Discrete and Stationary Adaptive Sub-Band Threshold Method for Improving Image Resolution", World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering Volume 10, Issue 3, Pages 607-614, June 2016.
3. "Manipulation of Image Segmentation Using Cleverness Artificial Bee Colony Approach", World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering Volume 9, Issue 4, Pages 1003-1006, June 2015.
4. "A Study on Web usage Data Mining in Online Sales and SASF Crawler in Online Advertisement", International Journal of Computer Applications (0975 – 8887) Volume 129 – No.15, November 2015.
5. "ROPEX: REDUCING AND TRANSFERING PDU IN NETWORK", International Journal of Research In Computer Applications And Robotics (ISSN 2320-7345) Vol.3 Issue.2, Pg.: 1-5 February 2015.
6. "ECONET: TRANSFEERING PDU IN NETWORK USING ICTCP", International Journal of Applied Engineering Research (ISSN 0973-4562) Volume 10, Number 14 (2015).
7. " BVFG: Batch verification scheme for filtering of gang injected false data in wireless sensor networks", International Journal of Advanced Research in Computer Science and Software Engineering Volume 3, Issue 3, March 2013 (ISSN: 2277 128X).

Conference

1. "Classification of Road Accidents Using SVM and KNN", International Conference on Artificial Intelligence and Data Engineering, N.M.A.M Institute of Technology, Nitte, Karnataka, 23th and 24th May 2019 and published in "Advances in Intelligent Systems and Computing" (Scopus Indexed).
2. "Performance comparison of machine learning models for classification of traffic injury severity from imbalanced accident dataset", 3rd International Conference on Big Data and Cloud Computing, Karunya Institute of Technology and Sciences, 6th and 7th December 2019 and published in "Advances in Intelligent Systems and Computing" (Scopus Indexed).

3. "Performance Analysis of Edge Detection Algorithms for Object Detection in Accident Images", Global Conference for Advancement in Technology, Bangalore, 18th to 20th October 2019 (Scopus Indexed).
4. "Machine learning approach for identification of accident severity from accident images using hybrid features", International Conference for Emerging Technology, Belagavi, 5th – 7th, June 2020 (Scopus Indexed).
5. "Performance Analysis of Feature Detection and Description (FDD) Methods on Accident Images", International Conference on Machine Learning, Image Processing, Network Security and Data Science, National Institute of Technology, Silchar, 30 -31 July 2020 and published in "Communications in Computer and Information Science" (Scopus Indexed).

Significant achievements:

- Completed online course on "Introduction to Object Detection"- GUVI Geek Network Pvt.Ltd.
- Completed Udemy online course on Learn Computer Vision with OpenCV Library using Python.
- NPTEL online certification for the course Introduction to Machine Learning.
- NPTEL online certification (**Elite**) for the course Introduction to Internet of Things.
- NPTEL online certification (**Elite**) for the course Introduction to cryptology.
- Data Science and Big data analytics – DELL EMC.