




P.E.S. College of Engineering, Mandya

Faculty Profile

General

Name	Dr. R Girisha	
Designation,	Professor Dean (Academics)	
Department & Affiliated Institution	Dept. of Computer Science and Engineering, <i>P.E.S College of Engineering, Mandya – 571 401</i>	
Research Area	<i>Computer Vision, Image Processing, Machine Learning, Analytics</i>	
Contact Number	+91 99452 12969	
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Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing
Ph. D	Mysore University	Mysore University	2010
M.Sc. Tech	Mysore University	Mysore University	2005
B. E	SJCE, Mysore	Mysore University	1999
Diploma in CSE	Banumaiah Polytechnic, Mysore	Technical Board, Bangalore	1994

Research Achievements/Awards

Ph. D / M.Sc., Engg./M/Phil	Ph. D - 1	M.Sc., Engg./M/Phil -
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Professional Experience

Organization & Department	Designation	Period	Total of Experience
PESCE, Mandya	Professor	Dec 2010 to till date	10 Years
PESCE, Mandya	Assistant Professor	Sep 2005 to Dec 2010	5 years
PESCE, Mandya	Lecturer	Sep 2000 – Sep 2005	5 years
VVIET, Mysore	Lecturer	Oct 1999 - Sept 2000	10 Months
ECIL, Hyderabad	Supervisor	1994 - 1995	10 Months

Report of Work for the Academic Year : 2019-20

Academics	Description of Academic records
Teaching Records (Details of courses taught)	<p><i>Undergraduate: Unix and Shell Programming, Unix System Programming, Linux Internals, System Programming, Data Structures, Algorithm Design and Analysis, Computer Organization, Advanced Computer Organization, Multimedia Computing, C# and .NET Technologies, Multi core architecture.</i></p> <p><i>Post Graduate (M. Tech): Advanced Algorithms, Advanced Data Structures.</i></p>

Research Guidance (Ph.D /; Students awarded & pursuing)

Degree	Awarded	Pursuing
Ph. D	1	3

Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Received
<i>Presented an IEEE paper in Cairo, Egypt</i>	<i>UGC</i>	<i>Rs 1.5 lakh</i>
<i>'Video Segmentation' for Vision-based Surveillance with MICAVs for 'Situation Awareness' and 'Activity Tracking'.</i>	<i>AR&DB of DRDO</i>	<i>3.71 Lakhs</i>

Research Publications in Refereed Journals and Conferences

No. of Publications in	National	International
Journals	-	06
Conferences	2	14

Patents		
No. 201741020992	AI based Inventory Management system & method thereof	Published
No. 201741021215	A System and a Method for Close Proximity Notification in Retail Environment	Published
No. 201741020993	System & method for automatic data management between user devices	Published
No. 201741020991	A Method & system for Business Intelligence Analytic	Published
No. 201741020994	Electronic processing of paper invoices	Published
No. 201741021216	A system & method for buying & selling goods	Published

LIST OF PUBLICATION

Journal Publications:

1. "Motion Segmentation from Surveillance Videos using Varied Number of Frames", International Journal of Recent Trends in Engineering, Vol. 2, No. 1, Nov 2009, Pages 60-65.
2. "Self Shadow Elimination Algorithm for Surveillance Videos using Inferential Difference in Mean Statistics", International Journal of Computer Applications 1(27):1–8, February 2010.
3. "Adaptive Object Segmentation for Surveillance Videos", International Journal of Computer Applications (in a special issue entitled RECENT TRENDS IN IMAGE PROCESSING AND PATTERN RECOGNITION), 2010, Pages 37–47.
4. "Motion Segmentation from Surveillance Video using modified Hotelling's T-Square Statistics", International Journal of Image, Graphics and Signal Processing, Vol. 8, No. 7, 2016. Pages 41-48.
5. "Cast and Self Shadow Segmentation in Video Sequences using Interval based Eigen Value Representation", International Journal of Computer Applications, Vol. 142, No. 4, May 2016. Pages 27-32.
6. "Multiple Objects Tracking In Surveillance Video using Color and Hu Moments", Signal & Image Processing: An International Journal (SIPIJ) Vol.7, No.3, June 2016. Pages 15-27.

Conference Publications:

7. "On-line hand identification system useful for recognition of Sign language: A Heuristic Approach", National conference on Current trends in Computer Technology and Bio-Informatics, Organized by CSI Division VIII and Lucknow chapter. May 13-15, 2005.
8. "Image Segmentation for Surveillance Application using Statistical Methods: a Novel Approach", Proceedings of the Third International Conference on Cognition and Recognition, Mysore, 14-16 April 2008.

9. "Adaptive Cast Shadow Elimination Algorithm Using Standard Scores for Video Surveillance Applications", Proceedings of the Second International Conference on Image and Signal Processing, VVIET, Mysore, 12-14 August 2009.
10. "Adaptive Cast Shadow Elimination Algorithm Using Inferential Statistics for Video Surveillance Applications", First National Conference on Image Processing, Computer Vision and Signal Processing, Mandya, 24-25 August 2009.
11. "Segmentation of Motion Objects from Surveillance Video Sequences using Temporal Differencing Combined with Multiple Correlation". Proceedings of the Sixth IEEE Computer Society conference on Advanced Video Signal and Surveillance, Genova Italy, 02-04 September 2009.
12. "Segmentation of Motion Objects from Surveillance Video Sequences using Partial Correlation", Proceedings of the Sixteenth IEEE Computer Society conference on Image Processing, Cairo, Egypt, 07-12 November 2009, Pages 1129-1132
13. "Adaptive Cast Shadow Elimination Algorithm for Surveillance Applications", Proceedings of the Second IEEE sponsored International Conference on Advances in Computer Vision and Information Technology, Aurangabad, 16-19 December 2009.
14. "Segmentation of Motion Objects from Four Successive Video Frames Simultaneously by Temporal Differencing Combined with Multivariate Statistics", Proceedings of the Fourth Indian International conference on Artificial Intelligence, Tumkur, 16-20 December 2009, Pages 1993-2006.
15. "Segmentation of Motion Objects from Four Successive Video Frames Simultaneously using Multiple Correlation", In the Proceedings of the First IEEE International Conference on Advances in Computing, Control, and Telecommunication Technologies, Trivandrum, 28-29 December 2009. Pages 319-324.
16. "Adaptive Cast Shadow Elimination Algorithm for Surveillance Videos using t Random values", Proceedings of the Sixth International IEEE Conference on INDICON, GandhiNagar, December 18-19, 2009. Pages 89-93.
17. "Self Shadow Elimination Algorithm for Surveillance Videos using ANOVA F test", In the Proceedings of the third ACM International Conference on Compute, Bangalore, January 22-23, 2010.
18. "Object Segmentation from Surveillance Video Sequences", In the Proceedings of the First IEEE International Conference on Integrated Intelligence Computing, SJBIT, Bangalore, August 22-23, 2010.
19. "Tracking Humans using Novel Optical Flow Algorithm for Surveillance Videos", In the Proceedings of the fourth ACM International Conference on Compute, Bangalore, Mar 25-26, 2011.
20. "Novel Micro Aerial Vehicle Video Segmentation Algorithm", In the Proceedings of the fourth ACM International Conference on Compute, Bangalore, Mar 25-26, 2011.
21. "Motion segmentation from surveillance videos using T-test statistics", In Proceedings of the 7th ACM India Computing Conference (COMPUTE '14). ACM, New York, NY, USA, Article 2 , 10 pages. 2014, DOI=<http://dx.doi.org/10.1145/2675744.2675748>.

22. "Motion Segmentation from Surveillance Video Sequences using Chi-Square Statistics", Proceedings of the second International Conference on - Emerging Research in Computing, Information, Communication and Applications, ERCICA 2014, (Vol 2) 365-372, Elsevier, ISBN 9789351072621, 2014.