B M S College of Engineering, Bangalore
Department of Medical Electronics

FACULTY DETAILS

Name	Dr H N SUMA	
Designation:	Professor and Head	
Highest Qualification:	PhD	
Date of Joining	03-03-1997	
Total Experience	24 Years	

Journal Publications	Publications	DOI / ISSN
	1. Roopesh S O, Appaji M Abhishek, Dr H N Suma, "Prognostic Health Monitoring System", International Journal of Advanced Research in Computer Science and Software Engineering", Vol 3, Issue 6, pp-1535-1538 June 2013. 1000-9_18, Ó Springer India 2013, pp 193-206.	2277128X
	2. Appaji M Abhishek, Thriveni J., H. N. Suma. "A Novel Approach for Biometric Recognition Using Electrocardiogram Biosignal". DIGITECH: An International Journal of Computer Science and Applications (ISSN: 2229-4597), Vol. 3, No. 6 (January 2013): 59-66.	2229-4597
	3. Appaji M. Abhishek, H. N. Suma, M. Chaithanya Lakshmi, Y. Veena, "Multiple Classification Method for Analysis of Liver Lesion with Focal Liver Segmentation Techniques for CT Image", Lecture Notes in Electrical Engineering 222, DOI: 10.1007/978-81-322-	10.1007/978-81-322-1000-9_18
	4. Dr H N Suma, Champa H N, "Analysis of Brain Activity For Given Auditory Stimulus Using Functional MRI", International Journal of Computer Theory and Engineering (IJCTE), ISSN: 1793-8201, December 2012.	10.7763/IJCTE.2013.V5.746/ 1793-8201
	5. Dr H N Suma, Appaji M Abhishek, "Semi Quantitative Analysis and Classification of Alzheimer Disease using Positron Emission Tomography Images", CiiT	DIP082012015

	International Journal of Digital Image Processing, Vol 4, No 14,PP 819-824, August 2012.	
	6. Dr H N Suma,Appaji M Abhishek, SoniAshish Kumar "Acquisition and Database Management for the Endoscopic Images", International Journal of Computer Applications, Vol 30 – No 8, pp 19-25, September 2011.	10.5120/3696-5119
	7. Dr H N Suma, S Karthik, "Volumetric Measurements of Activity Pattern of the Brain with fMRI data", CiiT International Journal of Biometrics and Bioinformatics, Vol 3, No 2, February 2011.	BB022011005
Conference Publications	**INTERNATIONAL CONFERENCE**	
	1. Appaji M. Abhishek, H. N. Suma, M. Chaithanya Lakshmi, Y. Veena, "Multiple Classification Method for Analysis of Liver Lesion with Focal Liver Segmentation Techniques for CT Image", Proceedings of the Fourth International Conference on Signal and Image Processing 2012 (ICSIP 2012), 13th & 15th December 2012, DOI: 10.1007/978-81-322-1000-9_18, Springer India 2013.	
	2. Dr H N Suma, Champa H N, "Analysis of Brain Activity for Given Auditory Stimulus using Functional MRI", 5th International conference on Computer Science and Information Technology, Hong Kong, China held between December 29-30, 2012.	
	3. Accamma Vasantha, Dr H N Suma "Feature Selection for decoding of Cognitive states in multiple subject fMRI data" in International Conference on advances in computing, held between 4th -6th July 2012 at MSRIT, Bangalore.	
	4. Dr H N Suma, Dr Pradhan, Nausheen Fathima, "Nanorobots for Fibrogenic Clot Removal', in Fifth Innovative Conference on Embedded Systems, Mobile Communication and Computing, 26th -28th July 2010, Kuppam, AP.	
	NATIONAL CONFERENCE	
	1. Dr H N Suma, "Integration of health facilities and data on GIS platform", at 2nd National Conference on Advancements in the Era of Multi-Disciplinary Systems (AEMDS-2013), Kurukshethra, Harayana, held between 6th & 7th April 2013.	
	2. Dr H N Suma, Appaji M Abhishek, "Structural and Functional Analysis of Attention Deficit Hyperactivity Disorder fMRI Images", at 2nd National Conference on Advancements in the Era of Multi-Disciplinary Systems (AEMDS-2013), Kurukshethra, Harayana, held between 6th & 7th April 2013.	
	3. Dr H N Suma, Appaji M Abhishek, "Non-Invasive Blood Glucose Analysis using Blood Impedance Measurement", at	

	2nd National Conference on Advancements in the Era of Multi-Disciplinary Systems (AEMDS-2013), Kurukshethra, Harayana, held between 6th & 7th April 2013.	
Interaction with Outside world	**Name of the Collaborative Institute**	**Period of the interaction**
	Stanford University, USA	January 2011 to July 2011
	F-GHS, Oxford University, London	March 2012 to December 2012
	Stanford University, USA	January 2012 to July 2012
	F-GHS, Oxford University, London	January 2013 to June 2013
	KIMS, Bangalore	January2011-june2011
	Raman Research Institute, Bangalore	January2013-june2013
	GE, Philips, Bangalore	January2012-june2012
Workshop Participant / Resource person	**Invited Talks** 1. Chaired one session at the International Conference on Convergence of Science and Engineering in Education and Research, ICSE 2010, a Global perspective in the New Millenium on 21st April 2010 at Dayanand Sagar College of Engineering, Bangalore. 2. Keynote address for one session on "Advances in Medical Imaging" at "Fifth Innovative Conference on Embedded Systems, Mobile Communication and Computing" at Kuppam on 28th July 2010. 3. Lecture on "fMRI Concept and Analysis" in VTU sponsored 3 day FDP during January 2011 at BMSCE, Bangalore. 4. Key note address on "Artificial Neural Network at "Sixth Innovative Conference on Embedded Systems, Mobile Communication and Computing" at PESIT, Bangalore on18th August 2011. 5. Talk on "How to write Technical Papers" on 28th January 2012 in a Two day workshop on "Medical Data Mining and Medical Image Processing" at Reva Institute of Technology, Bangalore. 6. Talk on "Advances in Medical Imaging-fMRI" on 28th March 2012 in Five day workshop on "Recent Advances in Medical Imaging" at GSSSIET, Mysore. 7. Talk on "Application in Medical Imaging" on 26th July 2012 in a workshop on "Explore VIN Research areas" at Vivekananda Institute of Technology, Bangalore. 8. Delivered a talk on "Image Processing concepts and Applications" in the TEQIP-II sponsored FDP on "Emerging trends and Research Avenues on Image Processing" organized by Malnad College of Engineering, Hassan, on 2nd July 2013. 9. Delivered a Lecture at National Level Workshop on "Machine Intelligence and Imaging Technologies" Organized by BIT, Bangalore on 29th august 2013.	

	Workshops Attended 1. 3 day INUP - Indo-UK Workshop on "Inertial Microsensors" from 28th to 30th July, 2011at IISc Bangalore. 2. Two day workshop on "Brain Science Awareness", on 14th - 15th March 2011 organized by the Systems Science and Informatics Unit (SSIU) of Indian Statistical Institute, Bangalore. 3. One week Academic Leadership program on "Perspectives on the rand Challenges for Engineering" held between 16th - 20th July 2012 by Indo-US collaboration for Engineering Education, BMSCE, Bangalore. 4. AICTE Sponsored one week FDP on "MATLAB Programming Concepts" between31st July – 7th August 2012 at BMSCE, Bangalore. 5. Conference on "Accessibility and availability of Quality Healthcare for all" organized by FICCI and Department of Health & Family Welfare, Government of Karnataka, Karnataka on 3rd August 2011. 6. One day "NBA Training program" organized by PESIT, Bangalore on 29th April 2013. 7. Three day "NBA Training program" organized by PESIT, Bangalore between 9th May-11th May 2013.
	Workshops convened/Coordinated: 1. Three day VTU sponsored Workshop on "Biomedical Signal and Image Processing and Analysis (Biosip'11)" from 21st to 23rd Jan 2011, BMSCE, Bangalore. 2. One Day Workshop on "Magnetic Resonance- Physics & imaging" at BMSCE, Bangalore during May 2011. 3. One week Workshop on "Microcontrollers & Applications" at BMSCE between 20th-25th June 2011. 4. One week Workshop on "Embedded System Design & Applications" at BMSCE held between 27th June to 2nd July 2011. 5. One week Workshop on "NXP Trainer kits" at BMSCE held between 1st -5th August 2011. 6. Two Day Workshop on "Wireless Physiological Monitoring Systems and Neurofeedback-Biofeedback Systems" In Collaboration with Gunjan Human Karigar Pvt. Ltd, held between 28th – 29th October 2011 7. Workshop on "Biomedical Signal And Image Processing Using "NI Lab view" in collaboration with National Instruments on 30th March 2012 at BMSCE, Bangalore. 8. One week ISTE sponsored STTP on "Brain & Cognition", BMSCE, Bangalore held between 7th January to 12th January 2013. 9. Two day "International Symposium on Medical Electronics –

	ISME'13" on 30th & 31st January 2013 at BMSCE, Bangalore.
	10. One Week TEQIP-II Sponsored FDP on "Biostatistics: Statistical Analysis Through Software Tools", on 11th to 16th February 2013 at BMSCE, Bangalore.
	11. One week TEQIP-II Sponsored FDP on "Biostatics Hands –on with SPSS and R Tool", between 8th July – 13th July 2013 at BMSCE, Bangalore.
	12. One week TEQIP-II Sponsored FDP on "Latex and Excel for Research- Hands on Session", between 2nd Aug – 7th August 2013 at BMSCE, Bangalore.
	13. TEQIP-II Sponsored workshop on "Cyber Forensics and information security", between 26th Aug – 31st August 2013 at BMSCE, Bangalore.
	14. One month TEQIP-II Sponsored workshop on "Solar Clan", between 29th Jul – 29th August 2013 at BMSCE, Bangalore.
	15. Three weeks TEQIP-II Sponsored workshop on "Electronic Design Automation in GNU / Linux", between 12th Aug – 30th August 2013 at BMSCE, Bangalore.