

## Research Publications

### **Dr. B M Satish, Professor & Principal, Dept. of ME**

#### **International Conferences Attended for Research Papers Presentation:**

- Attended and presented a research paper on vibration damping of Fe-Cr alloys at the World Congress on Science, Engineering & Technology – 2009 (WCSET 2009), an International Conference, between **25-28 February, 2009 at Penang, Malaysia.**
- Attended and presented a research paper on noise and damping analysis of high chromium ferromagnetic steels at the **PFAM 16**, the sixteenth International Conference on Processing and Fabrication of Advanced Materials between **17-19 December, 2007 at National University of Singapore, Singapore.**
- Attended **THERMEC 2006**, An International Conference on Advanced Materials and Processing at **Vancouver, Canada between 4-8<sup>th</sup> July, 2006** and presented a research paper entitled “Wear characteristics of copper alloy / feldspar metal matrix composites”. This paper has been accepted for publication in the **International Journal “Materials Science Forum”**, published by **Trans Tech Publications, Switzerland.**

#### **Selected Research Papers published in reputed International Journals**

1. Optimisation of Wear behavior of Magnesium AZ91 hybrid composites using Taguchi Experimental design, accepted for publication in *Matallurgical and Materials Transactions, American Society for Metals (ASM)*.
2. Tungsten carbide reinforced copper composites for thermal management applications, *Journal of Materials Design and Applicatons*, Institution of Mechanical Engineers, UK. vol 226 (4), 2012, p 316-321
3. Wear behavior of tungsten carbide particles reinforced copper alloy composites, *International Journal of Microstructure and Materials Properties*, vol. 7, No. 6, 2012, p 517-531.
4. Electrical resistivity and mechanical properties of tungsten carbide reinforced copper alloy composites, *International Journal of Composite Materials*, vol 2 (3), 2012, p 37-42.
5. Effect of nitriding on corrosion behavior of graphite reinforced aluminium alloy composites, *Corrosion Engineering, Science & Technology*, vol 48, No. 1, 2013, p. 51 – 54.
6. Need for optimization of graphite particles reinforcement in ZA-27 alloy composites for tribological applications, *Materials Science and Engineering A*, vol 530, 2011, p 382 – 388.
7. Effect of nitriding on wear behavior of graphite reinforced aluminium alloy composites, *Journal of Surface Engineered Materials and Advanced Technology*, 2011, 1, 73-79, Scientific Research.
8. An investigation into the effects of graphite particles on the damping behavior of ZA-27 alloy composite material, *Materials and Design*, vol 32, 2011, p 1050-1056, **Elsevier**.
9. Wear and Thermal behavior of graphite particle reinforcement in ZA-27 alloy composites for tribological applications (SME), *Journal of Manufacturing Engineering (JME)*, June 2011, vol 16, issue 2, p 69 – 74.
10. Effect of grain boundary precipitates on vibration damping of Fe-Cr-Mg-Al/Si alloy, *Int. Journal of Materials Research (formerly Z.Metallkd.)*, vol. 101, 2010, p 1538 – 1542.
11. Effect of stacking fault probability and epsilon martensite on damping capacity of Fe-16%Mn alloy, *Materials and Design*, vol 31, 2010, p 2163 – 2166, **Elsevier**.
12. Vibraton damping of high chromium ferromagnetic steel and its dependence on magnetic domain structure, *Journal of Alloys & Compounds*, vol 484 (2009), p 296 – 299, **Elsevier**.

13. Dry sliding wear of short glass fiber reinforced zinc-aluminum composites, *Tribology International*, vol 31, No.4, 1998 p 183-188, **Elsevier**.
14. Graphite particles reinforced ZA-27 alloy composite materials for journal bearing applications, *Wear*, vol 219, 1998, p 162-168, **Elsevier**.
15. Sliding wear behavior of zircon particles reinforced ZA-27 alloy composite materials, *Wear*, vol 219, 1998, p 162-168, **Elsevier**.
16. Effect of SiC particles reinforcement on the unlubricated sliding wear behavior of ZA-27 alloy composites, *Wear*, vol 213, 1997, p 33-40, **Elsevier**.
17. Effect of short glass fibers on the mechanical properties of cast ZA-27 alloy composites, *Materials and Design*, vol 17, No.5/6, 1996, p 245-250, **Elsevier**.
18. Hardness of aged ZA-27/short glass fiber reinforced composites, Special issue of *Materials and Design*, vol 16, No.6, 1995, p 367-371, **Elsevier**.
19. Mechanical properties and fractography of cast lead alloys/quartz particulate composites, *Materials and Design*, vol 18, No.3, 1997, p 149-153, **Elsevier**.
20. Corrosion characteristics of ZA-27/glass fiber composites, *Corrosion Science*, vol 39, No.12, 1997, p 2143-2150, **Elsevier**.
21. Effect of artificial ageing on tensile strength of ZA-27/short glass fiber reinforced composites, *Journal of the Institution of Engineers, Singapore*, vol.38, No.4, 1998, p 21-26.
22. Mechanical properties and fractography of zircon particles reinforced ZA-27 alloy composite materials, *Composites Science and Technology*, vol 59, 1999, p 1805-1812, **Elsevier**.
23. Mechanical properties of ascast and heat treated ZA-27/short glass fibres composites, *ASM Journal of Materials Engineering & Performance*, vol 7 (1), 1998, p 93-99.
24. Ageing characteristics of short glass fibers reinforced ZA-27 alloy composite materials, *ASM Journal of Materials Engineering & Performance*, vol 7 (8), 1999, p 747-750.
25. Fractography, fluidity and tensile properties of aluminium/hematite particulate composites, *ASM Journal of Materials Engineering & Performance*, vol 8 (3), 1999, p 309-314.
26. Microstructure study of nitride and non-nitrided Al6061 metal matrix composites, *International Journal of Materials Science*, ISSN 0973-4589, vol 7, No.1, 2012, pp.35-46 (Research India Publications)
27. Managing complexity in aircraft design using design structure matrix, *Concurrent Engineering*, 2011.
28. Wear behavior of Magnesium alloy AZ91 Hybrid Composite Materials, accepted for publication in *Tribology Transactions*, 58, 481-489, 2015, published by **Taylor & Francis**, UK.

## **Dr. Anirban Basu, Professor, Dept. of CSE**

1. 'Performance Analysis of Pipeline Architecture': Journal of IETE, Vol.28, No. 10 October 1982, pp. 542-545 (with A.K Chaudhury)
2. 'A taxonomy of parallel processing systems': Computer Science and Informatics, Journal of Computer Society of India, 1986
3. 'Parallel processing system: a nomenclature based on their characteristics': IEE (UK) Journal Part E (Computer and Digital Techniques), May 1987, pp.143-147
4. 'Design of a Fault Tolerant Pipelined Processor': Computer Engineering Journal, The Institution of Engineers (India), Vol.69 Pt.CO2, March 1989, pp. 48-54
5. 'Effect of prediction accuracy on the performance of an Instruction Pipeline': International Journal of System Science, Vol.21 1990, pp. 977-984
6. 'Performance prediction of message passing multiprocessors achieving concurrency by domain decomposition': Computer Engineering Journal, The Institution of Engineers (India), Vol.71, No.5, 1990, pp.19-23 (with S Srinivas, K.G Kumar and A Paulraj)
7. 'Studies on the performance of a parallel iterative algorithm on transputer arrays': International Journal of High Speed Computing, Vol,2 No. 3, September 1990, pp.265-287 (with S Srinivas, K.G Kumar, A Paulraj and L M Patnaik)
8. 'Mapping of image processing algorithms on transputer based Adaptable Pipeline': Journal of IETE, Vol.37, No. 5 & 6, 1991, pp 541- 547 (with S Srikanth and D Dutta Majumder)
9. 'A pipelined ring algorithm for matrix multiplication on transputer networks: performance analysis and estimation': International Journal of Computer System science and Engineering (UK), Vol.7, No.1, January 1992, pp. 42-51 (with S.Srinivas, K.G Kumar and A.Paulraj and L.M.Patnaik)
10. 'Performance estimation of LU Factorization on Message Passing Multiprocessors': Parallel Processing Letters Vol.2 No.1(1992) pp.51-60 (with B.V.Purushotham, P.S Kumar and L.M.Patnaik)
11. 'A parallel algorithm for elimination tree computation and symbolic factorization': Parallel Computing, Vol 18, 1992, pp.849-856 (with P.Sreenivasa Kumar and M.Kishorekumar)
12. 'Sorting algorithms on Transputer Arrays': Parallel Computing, Vol 19, 1993, pp.595-607 (with Sunil Chandra, M Jain and P. Sreenivasa Kumar)
13. 'A parallel algorithm for sparse triangular system solution': Parallel Computing, Vol.19 1993, pp.187-196 (P. Sreenivasa Kumar and M.Kishorekumar)
14. 'Performance of a Pipelined Ring Algorithm for Fast Fourier Transform on Transputer Arrays': Computer & Electrical Engineering, Vol.20, No.4, 1994, pp.319-326 (with J.Purushotham, D.Kulkarni and L M Patnaik)
15. 'Software Process Quality: from ISO 9000, CMMI to Six Sigma': CSI Communications, Vol.32, No.10, January 2009, pp.13-18
16. 'Effective Software Testing': CSI Communications, Vol.32, No.12, March 2009, pp.8-12

17. 'Benchmarking and Performance Evaluation of Computer Systems': CSI Communications, Vol.33, No.2, May 2009, pp. 14-20
18. 'Improving Network Availability by Software Rejuvenation' : International Journal of Computer Applications, Vol.28, No.8, September 2011 (with Shishira Vasan)
19. 'Techniques to Counteract Software Aging in .NET Applications': International Journal of Software Engineering, Vol.3, No.2, pp.81-90 (with Manu G M)
20. 'Cloud based testing: need of testing in cloud infrastructures and cloud platforms': International Journal of Computer Science and Information Technology & Security (IJCSITS), ISSN: 2249-9555 Vol. 2, No.2, April 2012, pp. 398-401 (with G Jagadeesh and S Aluri)
21. 'Effort Estimation in Agile Software Development using Story Points': International Journal of Applied Information Systems ISSN:2249-0868, Vol.3, No. 7, August 2012, pp.7-10 (with Evita Coelho)
22. 'Software Rejuvenation in Web Services': International Journal of Computer Applications, Vol.54, No.8, September 2012 , pp.31-35 (with Chaitra S R)
23. 'Multi Agent Management System for Next Generation Mobile Networks': International Journal of Engineering Research and Technology, Vol 1, Issue 7, Sept 2012 (with D Jayaramaiah A Prashanth, A V Reddy)
24. 'Performance Analysis of Cloud Computing Platform': International Journal of Applied Information Systems ISSN:2249-0868, Vol.4, No. 4, October 2012, pp.29- 33 (with Sapna Addamani)
25. 'Modified BitTorrent protocol and its application in Cloud Environment' :International Journal of Computer Science, Engineering and Applications (IJCSEA), Vol 2, No. 5, October 2012, pp. 23-31 (with Soumya V L )
26. 'Effective Technique for VM Provisioning on PaaS Cloud Computing Platform': International Journal of Applied Information Systems ISSN:2249-0868, Vol.4, No. 6, December 2012, pp.44-47 (with K S Manjunath)
27. 'Agent based performance analysis of next generation Mobile networks (lte)': International Journal of Computer Science and Information Technology and Security ISSN: 2249-9555 Vol 2, No.6, Dec 2012 (with D Jayaramaiah A Prashanth, A V Reddy) pp. 1295-1304
28. 'Performance Analysis of Web Applications on IaaS Cloud Computing Platform' International Journal of Computer Applications, Vol.64, No.15, February 2013 , pp. 1-6 (with Sapna Addamani)
29. 'Agent Based QoS Provisioning for NGMN [LTE]': IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250-3501. Vol.3, No2, April 2013 (with D Jayaramaiah A Prashanth, A V Reddy) pp. 212-221
30. 'Power Aware and Task Scheduled Resource Allocation in Cloud Datacenter': International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume 2, Issue 5, June 2013, pp. 1-6 (with Manasa H B)
31. 'Performance of Eucalyptus and OpenStack Clouds on FutureGrid' :International Journal of Computer Applications, Vol 80, No.13, October 2013 , pp. 32-37 (with Sharath S)

32. 'Performance Analysis of Hadoop Map Reduce on Eucalyptus Private Cloud' International Journal of Computer Applications, Vol. 79, No.17, October 2013 , pp. 10-13 ( with Joby P Jacob)
33. 'Knowledge Enhancement from Unstructured Text Descriptions': International Journal of Combined Research & Development (IJCRD), Vol.2, Issue 6, June 2014, pp. 38-43 (with Nithya A)
34. SecCheck: A Tool for Detection of Vulnerabilities and for Measuring Insecurity in Java Programs': International Journal of Software Engineering, Vol.7, No.2, July 2014, pp.67-93 (with Priyadarshini R and Nivedita Ghosh)
35. 'Task Scheduling Techniques for Minimizing Energy Consumption and Response Time in Cloud Computing': International Journal of Engineering Research & Technology (IJERT) Vol. 3, Issue 7, July 2014, pp. 545-549 (with Dhanalakshmi M)
36. 'Automation Framework for Testing Android Mobiles': International Journal of Computer Applications, Vol. 106, No.1, November 2014, pp. 25-31 ( with Anbunathan R)

**Books published (titles, publishers, year of publication)**

1. Software Quality Assurance, Testing and Metrics, PHI Learning, June 2015
2. Edited: Advances in Cloud Computing: Proceedings of International Conference on Advances in Cloud Computing, ACC 2012, Bangalore July 2012, Universities Press
3. Edited: Software Quality: The Road Ahead: Proceedings of International Conference on Software Engineering, Feb 2011, Tata McGraw Hill Publishing Company Limited, 2011
4. Edited: Structures and Limitations of Technology Policies: Proceedings of Seventh Indian Engineering Congress, Feb 1993: Tata McGraw Hill Publishing Company Limited, 1993
5. Advanced Computing: Tata McGraw Hill Publishing Company Limited, 1991(with Vijay Bhatkar, Ashok Joshi, and Ashok Sharma)
6. Frontiers in Parallel Computing : Narosa Publishing House, 1991(with Vijay Bhatkar, Sharad Purohit, and Kiran Rege)
7. Parallel Processing Systems and their Applications, 1988 (Proceedings of the Seminar, Calcutta, Dec 1988)

**Dr. S.G. Balakrishnan, Professor, Dept. of CSE**

- 1) Athiramol. S, S.G. Balakrishnan, 2015, “A study on hashing techniques in image processing”, SJCTET Journal of Engineering & Management, Vol 8 No 2 Jul– Dec 2015, pp. 29-32.
- 2) P.K. Kumaresan, S.G. Balakrishnan, V Amirthalingam, SKarthik, S. SENTHIL, 2014, “Classification of Remote Sensing Data Using Support Vector Machine and Random Forests Classifier with Color, Textural and Shape Features”, International Journal of Emerging Research in Management & Technology, Volume-3, Issue-11, pp. 138-141.
- 3) P.K. Kumaresan, S. Senthil Kumar, M Saravanan, A.V. Ramesh Kumar, S.G. Balakrishnan, 2014, “Dynamic Channel Allocation Using Virtual Machines for Cloud Sensor Networking Environment”, International Journal of Innovative Research in Science, Engineering and Technology, Vol. 3, Issue 12, pp. 18049-18054.
- 4) Sakthidevi P, Mohanapriya B, M. Nithya, S.G. Balakrishnan, 2014, “Extended Data Mining Technique for Ontology Learning to Present Multi-Media Learning Contents”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 12, pp. 937-942.
- 5) Balakrishnan, SG & Kashwan, KR 2014, ‘Secured Channel Assignment Scheme for Nodes in Multihop Cellular Networks’, Journal of Convergence Information Technology (JCIT) vol. 9, no. 2, pp. 115-124.
- 6) Balakrishnan, SG & Kashwan, K R 2013, ‘Enhanced Mobility Aware Channel Assignment for Nodes in the Multihop Cellular Networks’, Asian Journal of Information Technology, vol. 12, no. 11, pp. 391-397.
- 7) Kishana, R, Kashwan & Balakrishnan, SG 2013, ‘Enhanced Channel Assignment Algorithm for Relaying Nodes in WCDMA Multihop Cellular Network’, International Journal of Computer and Communication Engineering, vol. 2, no. 5, pp. 551-556.
- 8) S.G. Balakrishnan “Automatic Text Summarization System with Linguistic Features for Web” International Conference on Innovative Technologies of Computing Sciences ICITCS 2015, VELS University, Chennai. 17th & 18th April 2015.
- 9) Balakrishnan, SG & Kashwan, KR 2014, ‘Channel Assignment Algorithm to Improve Relaying Nodes Fairness in WCDMA Multihop Cellular Networks’, IEEE International Conference on Electronics and Communication System (ICECS-2014), ISSN: 978-1-4799-2321-2, DOI: 10.1109/ECS.2014.6892741, 2014, pp. 1-7.
- 10) Balakrishnan, SG & Kashwan, KR 2013, ‘A Novel Channel Assignment Algorithm for Multihop Cellular Networks’, International Conference on Sustainable Approaches for Green Computing, Economy & Environment (SAGCEE13), pp. 1067-1070.
- 11) Kashwan, K R & Balakrishnan, SG 2012, ‘Channel Assignment Algorithm for Mobile Nodes in Multihop Cellular Network’, Electronics Computer Technology (ICECT), 2012, 4TH IEEE International Conference, IEEE Catalog No: 19998, Print ISBN: 978-1-4673-1849-5, pp. 200-204.
- 12) S.G. Balakrishnan “Seamless Integration of WLAN GPRS for next generation mobile data networks” National conference on Networks, Intelligence & Computing Systems, April 2009.
- 13) S.G. Balakrishnan “Enterprise Application Integration” National Conference on ZETA 2K6, Jayam College of Engineering, April 2006.

**International Journals**

1. **N.Lakshminarasimaiah**, ShobanaVijayan(2016),“ Removal of Lead (Pb<sup>2+</sup>) from waste water by using Mountain Laurel leaves”, International Journal of Engineering and Management Research, Vol.6, pp 544-548.
2. **N.Lakshminarasimaiah**,T.Meenambal.,N.Ramesh and LakshmipriyaThiyagarajan(2010), Municipal solid Waste Management Acasestudy of Hosur an Industrial Town in Tamilnadu, Poll. Res., Vol.29 (2), pp. 259-265.
3. **N.Lakshminarasimaiah**,T.Meenambal.,LakshmipriyaThiyagarajan,N.Ramesh(2009)“ Bioconversion of Mangowaste Blended with poultry waste and cow Dunginto useful Manure by Aerobic Composting”, Nature Environment and pollution Technology, vol.88(4), pp.849-854.
4. **N.Lakshminarasimaiah**et.al.” Classification of Landuse/Land cover by changed etection Analysis”. A Casestudy for Hosur Taluk, Krishnagiri(DT), T.N International journal of Earth Sciences & EngineeringVol4 no.01 SPLP.77-83 JAN2011.
5. Lakshmipriya Thiyagarajan, **N.Lakshminarasimaiah** “Recycling of Pulp & Paper industry sludge with sawdust by Aerobic Composting Method ”Nature Environmental and pollution technology aninternational quarterly journal Vol 9 no.4 pp.149-1542010.
6. N.Ramesh, **N.Lakshminarasimaiah**“ Biphasicanaerobicdigestion of the Organic Fraction of Municipal Solid Waste (OF MSW) through USA Breactor-A performance study” Pollution research enviro media. International journal.28 (2): 2392006 (2009).
7. **N.Lakshminarasimaiah**, Raja RajeshwariB Vibhuti, Barnali Ghosh“ Extraction of Bromelain from pineapple waste” International Journal of Scientific & Engineering Research Vol5, Issue6, p.763-766, June-2014

**PAPER PRESENTATION IN NATIONAL AND INTERNATIONAL CONFERENCES**

<b>SL NO</b>	<b>TITLE OF THE PAPER/ ARTICLE</b>	<b>NAME OF THE NATIONAL/INTERNATIONAL/CONFERENCE</b>	<b>REMARKS</b>
1	House hold hazardous waste generated-management	Proceedings of the international conference on sustainable solid waste management	5-7 September 2007 Anna university Chennai, India PP 163-168
2	Design and start-up of USA Breactor using organic fraction of MSW(OFMSW) samples of Erode town for India	Silver Jubilee National Level Conference Technology application for sustainable development	29-30 January 2009 Kongu Engineering college, Erode, TamilNadu
3	Public participation, education and involvement in integrated municipal solid waste management in Erode Town, TamilNadu ,India	Silver Jubilee National Level Conference Technology application for sustainable development	29-30 January 2009 Kongu Engineering College, Erode, TamilNadu
4	Study of water potential in and around Hosur	National conference on recent trends in Civil Engineering, RTCE P- 59-64	4-5 June 2004 Chennai India Bharat Institute of Higher Education and research chennai
5	Reuse of waste for irrigation	National Conference on Cleaner Development Mechanism	Dept of Civil Engineering Govt College Of Technology, Coimbatore
6	E-waste Management- A case study	National Conference on CDM-2006 P 105-121	Dept of Civil Engineering GCT, Coimbatore
7	Electronic waste generation management in the state of Karnataka, India	National Conference on Cleaner Development Mechanism CDM-2006P-19-37	Dept of Civil Engineering GCT, Coimbatore
8	A Perspective on Recycling and Reuse of Plastic Wastes	National Seminar on Environmental & Pollution Awareness Sponsored by AICTE, New Delhi	21 October 2004 Sree Saraswathi Thiyagaraja College, Pollachi, Coimbatore district
9	Health Impact of solid waste handling	National Seminar on environment & Pollution Awareness Sponsored by AICTE, New Delhi, P-166-171	21 October 2004 Sree Saraswathi Thiyagaraja College, Pollachi, Coimbatore district



## **Dr. VanajaShivakumar, Professor, Dept. of ECE**

### **Publications**

1. “Adaptive Selective State-Transition Decoding: A Combined Approach for Trellis Coded Modulation Scheme” Journal of Electronics and Communication Engineering(IOSR-JECE,ISSN:2278-2834,ISBN: 2278-8735, VolumeX ,Issue X(Sept-Oct.2012)(I.F.1.586).
2. “New Controlled State Expansion Sequence Estimation” published in IJERT, vol.1,issue5,July2012(I.F.1.76)**Published In IJAEE** (International Journal Of Advances In Electronics Engineering).
3. “A New State-Drop Fast Sequence Estimation for TCM” in the second international conference CCN’12, at NCR, NewDelhi, held on 17-6-2012(published in digital seek library)

### **Conferences**

- Presented the paper “A New State-Drop Fast Sequence Estimation for TCM” in the secondinternationalconferenceCCN’12, at NCR, New Delhi, held on 17-6-2012(published in International digital seek library)
- Presented the paper “Extended Refined Sequence Estimation: A Novel Approach for TCM” in the first international ICICES2011, at Tiruverkadu, Chennai, held on 23<sup>rd</sup> & 24<sup>th</sup> Feb 2011
- Presented the paper “Iterated Decoding: A Novel approach for TCM over band limited ISI channels” in the conference NCACCET, Chandigarh, held on Jan 29th-30th2010.
- Presented the paper “Integrated Adaptive Sequence Estimation: for Trellis Coded Modulation Schemes” in the nationalconferenceNCSSS-2010, at Tamilnadu, held on Feb 26th-27th 2010
- Presented the paper “A Study on Trellis Coded Modulation and Decoding Strategies for Band limited ISI Channels” Presented in a National Conference,NITTE, in 2005