

FULLY REFEREED PUBLICATIONS

Books

1. **Savitri Bevinakoppa**, "Still Image Compression on Parallel Computer Architectures", Kluwer Academic publisher, Netherland, U.S.A, 1999, ISBN: 0-7923-8322-2
2. **Savitri Bevinakoppa**, "Practical Network Technology", Melbourne, 1999, ISBN: 0-6463-6322-0

Journal Publications

1. F. Ahmed, E. Ali, M. Hasan, R. Hassan, R. Saeed, M. Hassan, S. Islam, N. Nafi, S. **Bevinakoppa**, "Machine Learning Technologies for Secure Vehicular Communication in Internet of Vehicles: Recent Advances and Applications," *Security and Communication Networks*, vol. 2021, Article ID 8868355, 23 pages, 2021. <https://doi.org/10.1155/2021/8868355>
2. S. V. Manjaragi, S. V. Saboji, **S. G. Bevinakoppa**, Survey of Security Models in Heterogeneous Wireless Networks, *International Journal of Computer Networks and Wireless Communications (IJCNCW)*, Vol.8, No.5, Sep-Oct 2018, pp 1-8
3. **Savitri Bevinakoppa**, Ammar Alazab, Tony Jan. (2018) Design of Computer Networking Courses with Major in Cyber Security, *International Journal of Education and Learning Systems*, **3**, Oct 2018, pp. 111-116
4. Tony Jan, **Savitri Bevinakoppa**. (2018) Distributed Data Analytic Models for IoT Edge Computing Network, *International Journal of Internet of Things and Web Services*, **3**, Oct 2018, pp. 67-71
5. Karthik Nagarajan, **Savitri Bevinakoppa**. (2018) Towards Understanding the Role of Institutional Pressures in Raising Awareness about Student Academic Integrity Issues in Australia, *International Journal of Education and Learning Systems*, **3**, Oct 2018, pp. 93-104
6. **Savitri Bevinakoppa**, Kanaka Sundhoro, Neeraj Kumar, Mubasher Sadeque, Biplob Ray, Performance analysis of Internet of Things sensor architectures and security primitives, *Recent Advances in Communications and Networking Technology*, 2017, Vol. 6, No. 1, pp 1-11.
7. **Savitri Bevinakoppa**, Biplob Ray, Fariza Sabrina, "Effectiveness of Problem Based Learning Implementation", *International Journal of Quality Assurance in Engineering and Technology Education*, IGI Global, Vol. 5, Issue:3, July-Sept 2016, pp. 46-57.
8. Belal Chowdhury, **Savitri Bevinakoppa**, Susan Currie, and Beverley Jones, "Development and implementation of Reflective Journals as an assessment tool", *International Journal of Scientific & Engineering Research*, Volume 6, Issue 3, March-2015, pp 378-383 (IF = 3.2 in 2015)
9. Shivakumar V. Saboji (International researcher – India), **Savitri Bevinakoppa** and Channappa B. Akki (International researcher – India), "Agent Based Vertical Handoff Decision Algorithm for Heterogeneous Wireless Networks", *Recent Advances in Communications and Networking Technology*, 2015, Vol. 3, No. 2, pp 117-126.
10. **Savitri Bevinakoppa**, Belal Chowdhury, "Real-time Early Cancer Detection and Prognostic Systems Using Emerging Technologies", *Journal of Public Health Frontier*, June 2012 Vol.1 No.2. pp 42-47.
11. **Savitri Bevinakoppa**, "Telecommunications Engineering Course Design", *WSEAS Transactions on Advances in Engineering Education*, Issue 1, Volume 8, 2011, pp. 132-142

12. Saravanan Dayalan, Nalaka Gooneratne, **Savitri Bevinakoppa**, Heiko Schroder, "Dihedral Angle and Secondary Structure Database of Short Amino acid Fragments", *Bioinformation*, 1(3), 78-80, January 2006
13. Saravanan Dayalan, **Savitri Bevinakoppa**, Heiko Schroder, "Homology Based Structure Extractor for Protein Structure Prediction", *International Journal of Lateral Computing*, Vol 2, No1, December 2005. Also appeared in Proceedings of Second World Congress on Lateral Computing, December 16th – 18th, 2005, PESIT, Bangalore, India.

Conference Publications and Presentations

1. Purvaja Godbole, Anubhav Tomar, Savitri Bevinakoppa et.al. "IoT Based Secured Online Attendance Management System", *IEEE 7th International Conference on Engineering Technologies and Applied Sciences (ICETAS)*, Dec 2020, Malaysia
2. Ammar Alazab, **Savitri Bevinakoppa**, Ansam Khraisat, "Maximising Competitive Advantage on E-Business Websites: A Data Mining Approach", *IEEE Conference on Big Data and Analytics (ICBDA)*, Langkawi Island, Malaysia, 21-22 Nov. 2018, pp111-116
3. **Savitri Bevinakoppa**, Ammar Alazab, Tony Jan, "Design of Computer Networking Courses with Major in Cyber Security", in *17th International Conference on Education and Educational Technology (EDU '18)*, 26-28 Sept. 2018, Croatia.
4. Tony Jan, **Savitri Bevinakoppa**, "Distributed Data Analytic Models for IoT Edge Computing Network", in *13th International Conference on Remote Sensing (REMOTE '18)*, 26-28 Sept. 2018, Croatia.
5. Karthik Nagarajan, **Savitri Bevinakoppa**, "Towards understanding the role of institutional pressures in raising awareness about student academic integrity issues in Australia", in *18th International Conference on Applied Computer Science (ACS '18)*, 26-28 Sept. 2018, Croatia.
6. **Savitri Bevinakoppa**, "Challenges of Industry Based Capstone Projects Review Process and Assessments", in *17th International Conference on Education and Educational Technology (EDU '18)*, 26-28 Sept. 2018, Croatia.
7. **Savitri Bevinakoppa**, Muhammad Usman Younas, Vish Kallimani (International researcher – Malaysia) "GSM and GPS Based Mobile Vehicle Detecting System", *14th International Conference on Applications of Computer Engineering*, South Korea, Seoul, Sept 5-7 2015, pp. 15-21
8. **Savitri Bevinakoppa**, Dev Krishna Shrestha, "WiMAX Bit Error Rate (BER) with AWGN Channel for Variable Modulation Techniques", *13th International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC '15)*, South Korea, Seoul, Sept 5-7 2015, pp. 91-99
9. **Savitri Bevinakoppa**, Binod Kumar Ranabhat, S. V. Saboji, C. B. Akki, "Performance Analysis of WiMAX with MIMO Antenna", *13th International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC '15)*, South Korea, Seoul, Sept 5-7 2015, pp. 48-53
10. Biplob Ray, **Savitri Bevinakoppa**, Fariza Sabrina, "Develop and Implement Problem Based Learning Exercise Exemplar for Post Graduate Units", *2nd International Conference on Engineering and Technology Education (ETE '15)*, South Korea, Seoul, Sept 5-7 2015, pp. 49-57

11. George Fernandez, Belal Chowdhury, **Savitri Bevinakoppa**, “Using Screen Capture for Teaching and Learning”, 2nd International Conference on Engineering and Technology Education (ETE '15), South Korea, Seoul, Sept 5-7 2015, pp. 38-42
12. **Savitri Bevinakoppa**, Anastasiya Panova, “Simulation and Analysis of Satellite Mobile Systems”, 9th WSEAS International Conference on Remote Sensing (REMOTE '13), Budapest, Hungary, Dec 10-12, 2013, pp. 53-58
13. **Savitri Bevinakoppa**, Manikant Baile, Avinash Mutthun Akumalla, “Detection and Location of Anonymous Signal Using Sensor Network”, 9th WSEAS International Conference on Remote Sensing (REMOTE '13), Budapest, Hungary, Dec 10-12, 2013, pp. 86-92
14. **Savitri Bevinakoppa**, Laeeq Ahmed, Syed Haseeb Uddin, “Simulation of Diversity Techniques for Satellite Communications”, 12th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS '13), Budapest, Hungary, Dec 10-12, 2013, pp. 204-211
15. **Savitri Bevinakoppa**, Syed Shajiuddin, “Analysis of Telecommunication Network Performance”, 12th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS '13), Budapest, Hungary, Dec 10-12, 2013, pp. 304-309
16. George Fernandez, **Savitri Bevinakoppa**, “Heat Maps: Evidence-Based Addressing of Generic Graduate Attributes”, Australasian Association for Engineering Education (AAEE) Annual Conference, Gold Coast, Queensland, Australia, Dec 8-11, 2013
17. Geetu Sharma, **Savitri Bevinakoppa**, Sitalakshmi Venkatraman, “Modeling of Secured Cloud Network - The Case of an Educational Institute”, 7th WSEAS International Conference on Computer Engineering and Applications (CEA '13), Milan 9th to 11th Jan 2013, pp 150-155
18. George Fernandez, **Savitri Bevinakoppa**, “Student-Centred Blended Learning for a Mixed Student Cohort”, 7th WSEAS International Conference on Circuits, Systems, Signal and Telecommunications (CSST '13), Milan, 9th to 11th Jan 2013, pp. 77-81
19. **Savitri Bevinakoppa**, George Fernandez, “Mapping Learning Outcomes Onto Assessment Tasks”, 3rd International Conference on Circuits, Systems, Control And Signals (CSCS '12), Barcelona, Spain, October 17-19, 2012, pp 116-121
20. Ravish Goyal, Suren Sharma, **Savitri Bevinakoppa**, Paul Watters, “Obfuscation of Stuxnet And Flame Malware”, 3rd International Conference on Applied Informatics and Computing Theory (AICT '12), Barcelona, Spain, October 17-19, 2012, pp 150-154
21. Gnanambikai Kamal Kumar, **Savitri Bevinakoppa**, “Analysis of Identity Theft Survey”, 3rd International Conference on Applied Informatics and Computing Theory (AICT '12), Barcelona, Spain, October 17-19, 2012, pp 231-236
22. **Savitri Bevinakoppa**, Ravish Goyal, “Performance Analysis of Secured VoIP Local Area Network”, The 10th WSEAS International Conference on Data Networks, Communications, Computers (DNCOCO '11), Catania, Sicily, Italy November 3-5, 2011, pp 204 - 209.
23. **Savitri Bevinakoppa**, Min Gurung, “Institutional Approach to Course and Curriculum Design Based on Analysis of Staff and Student Surveys”, International Conference on Education, Research and Innovation - ICERI Oct 21-23 2011, Cairo, Egypt, pp 10 – 14.

24. **Savitri Bevinakoppa**, “Performance Analysis of Networked Web Based Educational Tool”, 2011 International Conference on Education, Research and Innovation - ICERI 21-23 2011, Cairo, Egypt, pp 19 – 23.
25. **Savitri Bevinakoppa**, “An Efficient and Cost Effective Internetworking Setup for Research and Teaching Purpose”, International Conference on Computer and Information Applications: ICCIA2010, Tianjin, China, pp 394-397. **WON BEST PAPER PRESENTATION**
26. * Saravanan Dayalan, **Savitri Bevinakoppa**, Heiko Schroder, “Homology Based Structure Extractor for Protein Structure Prediction”, Proceedings of Second World Congress on Lateral Computing, December 16th – 18th, 2005, PESIT, Bangalore, India. **WON A BEST PAPER AWARD**
27. Panu Phinjareonphan, **Savitri Bevinakoppa**, Panlop Zeephongsekul, “An Efficient Method to Estimate the Execution Times of Parallel Tasks on a Computational Grid”, Proceedings of Second World Congress on Lateral Computing, December 16th – 18th, 2005, PESIT, Bangalore, India.
28. *Panu Phinjareonphan, **Savitri Bevinakoppa**, Panlop Zeephongsekul, “An Algorithm to Predict Reliability of a Grid Node”, Eleventh ISSAT International Conference on Reliability and Quality in Design, St. Louis, Missouri, USA, August 4-6, 2005
29. Mohsin Saleem, **Savitri Bevinakoppa**, “Job Scheduling In Computational Grid Using Genetic Algorithms”, 7th International Conference on Enterprise Information Systems 2005, Miami, 24-28 May 2005. (CORE C)
30. A.B.M. Russel, **Savitri Bevinakoppa**, “Predicting the Performance of Data Transfer in a Grid Environment: A predictive framework for efficient data transfer in a Grid environment”, 7th International Conference on Enterprise Information Systems 2005, Miami, 24-28 May 2005. (CORE C)
31. Panu Phinjareonphan, **Savitri Bevinakoppa**, Panlop Zeephongsekul, “A Heuristic Algorithm for Mapping Parallel Applications on Computational Grids”, European Grid Conference 2005, Feb 14-17, 2005, Amsterdam, The Netherland, 1086-1096
32. * Panu Phinjareonphan, **Savitri Bevinakoppa**, Panlop Zeephongsekul, “A Method for Estimating the Execution Time of a Parallel Task on a Grid Node”, European Grid Conference 2005, Feb 14-17, 2005, Amsterdam, The Netherland, pp 226-236
33. * Panu Phinjareonphan, **Savitri Bevinakoppa**, “A Novel Algorithm for Mapping Parallel Applications in Computational Grid Environments”, HPCAsia 2004 conference, Tokyo, Japan, July 20-22, 2004. (CORE B)
34. Shirley Teles, **Savitri Bevinakoppa**, Manjunath Sharma, Govind Raju, “Web Multimedia Tool for Eye Yoga Exercise (Web-EYE)”, “International Conference On Yoga And Its Applications ‘ROLE OF YOGA IN COMPLEMENTARY MEDICINE’ ”, 27 - 29 August 2004, Melbourne, Australia.
35. * Saravanan Dayalan, **Savitri Bevinakoppa**, “Dihedral Angle Database Based on Disulfide Bonds”, IEEE Fourth Symposium on Bioinformatics and Bioengineering (BIBE2004), May 19-21, 2004, Taichung, Taiwan, ROC, pp 442 – 448. (CORE C)
36. Ather Saeed, **Savitri Bevinakoppa**, “Scalable Continuous Query System for Web Databases”, The second International Workshop on Web Services: Modeling, Architecture and Infrastructure, April 13 - 14, 2004, Porto, Portugal, pp 59-72
37. * Saravanan Dayalan, **Savitri Bevinakoppa**, Heiko Schroder, “A Dihedral angle database of short sub-sequences for protein structure prediction”, The Second Asia Pacific Bioinformatics Conference 18-22 Jan, 2004, Dunedin, New Zealand APBC2004. pp 131-137 (CORE B)
38. Panu Phinjareonphan, **Savitri Bevinakoppa**, “Automated Prognostic Tool for Cervical Cancer Database”, International Conference on Intelligent Sensing and Information Processing – 2004, 4-7 January 2004, Chennai, India, pp 63- 66

39. Panu Phinjureonphan, **Savitri Bevinakoppa**, Graeme White, "Improve Reliability of Dynamic Information in Computational Grids", HPCAsia 2004 conference, Tokyo, Japan, July 20-22, 2004. (CORE B)
40. * **Savitri Bevinakoppa**, Kaushik Hegde, "Efficient Enterprise Integration Solutions Using Web Services for Hospital Management System", Eighth Australian and New Zealand Intelligent Information Systems Conference – ANZIIS 2003, Dec 10-12 Sydney, Australia, pp247-252 (CORE C)
41. * **Savitri Bevinakoppa**, Ravishankar Tripuramallu, "Web Services Based Single Sign-on for Hospital Management System", Eighth Australian and New Zealand Intelligent Information Systems Conference – ANZIIS 2003, Dec 10-12 Sydney, Australia, pp259-264 (CORE C)
42. **Savitri Bevinakoppa**, Neeraj Arora, "Volume calculation and 3D image Construction of MR Image", World Congress on Medical Physics and Biomedical Engineering, August 24-29, 2003, Sydney, Australia
43. **Savitri Bevinakoppa**, Saravanan Dayalan, "Monitoring System Model for Peer to Peer Computing Architecture Using Jxta", High Performance Computing Asia HPCAsia 2002, Bangalore, India, pp 581-583 (CORE B)
44. **Savitri Bevinakoppa**, "Online Delivery Tools to Support Teaching of Operating System Concepts", Networked Learning in a Global Environment, Technical University of Berlin, Germany, May 1 - 4, 2002.
45. **Savitri Bevinakoppa**, "Analysis Report on the Weblearn Tool Feedback Survey", First International Conference on Information Technology & Applications (ICITA 2002), Bathurst, NSW, Australia, 25 Nov. 2002. (CORE C)
46. **Savitri Bevinakoppa**, "Cancer Prognosis Methodology for Cervical Cancer to be Used for Peter MacCallum Cancer Institute", The Seventh Australian and New Zealand Intelligent Information Systems Conference, University of Western Australia, Australia, 25th Nov 2001. (CORE C)
47. **Savitri Bevinakoppa**, "Communication Technology for Online Teaching and Learning", Managing Information Technology in a Global Environment, 2001 Information Resources Management Association International Conference, Toronto, Ontario, Canada, May 20-23, 2001, pp 1132-1135
48. **Savitri Bevinakoppa**, "Pattern Analysis of HPjava library for Image Compression Algorithms", International Conference on Imaging Science, Systems, and Technology (CISST'2000), 26 - 29 June 2000, Las Vegas, USA. Pp 237 – 243 (CORE C)
49. **Savitri Bevinakoppa**, "Parallel Processing Plans for Digital Image Compression Techniques", International Conference on Communications in Computing (CIC'2000), 26 - 29 June 2000, Las Vegas, USA. Pp 279 – 285 (CORE C)
50. **Savitri Bevinakoppa**, "Analysis and Design of Parallel Programming Model for Image Compression Algorithms", International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'2000) 26 - 29 June 2000, Las Vegas, USA. Pp 2325 – 2331 (CORE B)
51. **Savitri Bevinakoppa**, "Parallel Programming for Image Compression Plan", International Conference on Comm. in Computing (CIC'2000), 26 - 29 June 2000, Las Vegas, USA. Pp 33 – 39
52. **Savitri Bevinakoppa**, "Parallel Implementation of JPEG algorithm on Three parallel Architectures", Australasian Computer Architecture Conference, ACAC'98, Perth, Australia.
53. **Savitri Bevinakoppa**, Nalin Sharda and Hema Sharda, "Parallel Implementation of DCT-based Digital Image Compression on a Param System", PART'95: Australian Workshop on Parallel and Real Time system, 28 - 30 Sept. 1995, Perth, Australia.

54. **Savitri Bevinakoppa**, Nalin Sharda and Hema Sharda, "Implementation of JPEG Algorithm on Shiva Parallel Architecture", WIPP: First International Workshop on Parallel Processing, 24-30 Dec. 1994, Bangalore, India.
55. **Savitri Bevinakoppa**, Nalin Sharda and Hema Sharda, "Performance analysis of a parallel JPEG algorithm". PART'94: Australian Workshop on Parallel and Real Time system, 7-8 July 1994, Melbourne.
56. **Savitri Bevinakoppa**, Hema Sharda, John Hulskamp and Nalin Sharda, "Digital Image Compression on a Network of Transputers", Transputers and Parallel Applications Conference, Melbourne 4-5 Nov. 1992, pp 25-32.