2: +91-94898-50004

Publications

International Journal Papers (Scopus & Impact Factor)

- 1. **S. P. Balakannan**, M. Maragatharajan, M. Venkatesulu, "Health Care Analysis using Block Chain Technology", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-9, Issue-1S4, Pages 543-545, December 2019.
- 2. Senthil Kumaran. S, **Balakannan S. P**, "Open Source Internet of Things Platforms", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-9, Issue-2S2, Pages 875-878, December 2019.
- 3. Suprakash S, **Balakannan S P**, "Reusing Old Computers An Environment Friendly Method to Produce Computational Performance", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-8, Issue-4S2, Page 686-691, December 2019.
- 4. C Bala Subramanian, M Maragatharajan, **S P Balakannan**, "Predicting Product Purchase using Linear Classification Algorithms", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-8, Issue-4S2, Page 699-705, December 2019.
- 5. M. Maragatharajan, C. Balasubramanian, **S. P. Balakannan**, "Node Selection Strategy for Reliable Data Transmission in Manet using Semi Markov Process for Multicast Routing Protocol", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-8, Issue-4S2, Page 717-722, December 2019.
- 6. C Bala Subramanian, J Hemalatha, **S P Balakannan**, S Geetha, "Improving Image Steganalyser Performance using Second Order SPAM Features Extracting through Contourlet Transform", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-9, Issue-1S4, Pages 137-143, December 2019.
- 7. M. Maragatharajan, C. Balasubramanian, **S. P. Balakannan**, "Reliable Data Delivery in Manet using Adaptive Demand Driven Routing Protocol and Semi Markov Process", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-9, Issue-2S2, Page 781-787, December 2019.
- 8. Suprakash S, **Balakannan S P**, Sugumar V R, Manoj Kumar R, Viswanathan K, "Biometric Attendance for Classrooms A Real-Time Implementation", International Journal of Innovative Technology and Exploring Engineering(TM), Volume-9, Issue-2S2, Page 803-806, December 2019.
- 9. S. Suprakash, **Balakannan S.P**, "Utilization of Customers idle Resources: An Architectural Model for Data Center Power and Load Reduction", Journal of Advanced Research in Dynamical & Control Systems, Vol. 11, 07-Special Issue, 2019.
- 10. Bala Subramanian C, **Balakannan S.P**, "Scan and Z-Curve Trajectory for Mobile Anchor in Localization of Wireless Sensor Network", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-3, 2019.
- 11. Hariharasitaraman S, **Balakannan S.P**, "A dynamic data security mechanism based on position aware Merkle tree for health rehabilitation services over cloud", Journal of Ambient Intelligence and Humanized Computing Springer, DOI: https://doi.org/10.1007/s12652-019-01412-0, ISSN 1868-5137, 2019.
- 12. S. Suprakash, **Balakannan S.P**, "Service Level Agreement Based Catalogue Management and Resource Provisioning in Cloud for Optimal Resource Utilization", Mobile Networks and Applications Springer, https://doi.org/10.1007/s11036-019-01382-9, Online ISSN 1572-8153, 2019. (IF:2.49)
- 13. S. Suprakash, **Balakannan S.P**, "Service Level Agreement Based Catalogue Management and Resource Provisioning in Cloud for Optimal Resource Utilization", Mobile Networks and Applications Springer, 2019. (IF:2.49)
- 14. Karuppasamy, M, **Balakannan S.P**, An improving data delivery method using EEDD algorithm for energy conservation in green cloud network, Soft Computing Springer, 2019. (DOI:10.1007/s00500-019-04027-x)

- 15. Karuppasamy M, **Balakannan S.P**, "Energy Efficient Data Delivery in Green Cloud Networks" Lecture Notes in Electrical Engineering -Springer, DOI: https://doi.org/10.1007/978-981-13-0776-8_29, Volume 511, PP 313-321, 2018.
- 16. M Maragatharajan, C Balasubramanian, **S.P Balakannan**, A Secured MANET using Position based Opportunistic Routing and Semi Markov Process, Journal of Concurrency and Computation: Practice and Engineering, DOI:10.1002/cpe.5047, 2018.
- 17. Suprakash S, **Balakannan S.P**, "A Power Efficient Virtual Machine Consolidation For Saving Carbon Footprint Using Meta Heuristic Algorithms", International Journal of Pure and Applied Mathematics, Volume 119, No. 16, PP:4027-4034, 2018.
- Karuppasamy M, Suprakash S, Balakannan S.P, "Energy-Aware Resources Allocation for an Unceasing Green Cloud Environment" IEEE Xplore, DOI: 10.1109/I2C2.2017.8321878, March 2018.
- 19. Maragatharajan M, **Balakannan S.P**, "A Secured MANET using Multicast Routing protocols and Semi Markov Process", Journal of Cyber Security and Mobility, Volume 7, Pages 53-68, January 2018.
- 20. Karuppasamy M, **Balakannan S.P**, "Energy Saving from Idle Cloud Resources for a Sustainable Green Cloud Computing Environment", Journal of Cyber Security and Mobility, Volume 7, Pages 95-108, January 2018.
- 21. S.Nisha, **Balakannan S.P**, "An Energy Efficient Self Organizing Multicast Routing Protocol for Internet of Things", IEEE International Conference on Intelligent Techniques in Control, Optimization and Signal Processing (INCOS'17)", 978-1-5090-4776-5, 2017.
- 22. M.Maragatharajan, **Balakannan S.P**, "Analysis of Multicast Routing Protocols for secure Manet", IEEE International Conference on "Intelligent Techniques in Control, Optimization & Signal Processing (INCOS'17)", IEEE Explore, 978-1-5090-4776-5,257-262, 2017.
- 23. Bala Subramanian C, **Balakannan S.P**, "Optimized Trajectory Planning for Mobile Anchors in Wireless Sensor Networks", IEEE International Conference on "Intelligent Techniques in Control, Optimization & Signal Processing (INCOS'17)", 978-1-5090-4776-5, 2017.
- 24. Hariharasitaraman, **Balakannan S.P**, "On Fractal Way of Checking Data Storage Integrity in Cloud Storage", IEEE International Conference on "Intelligent Techniques in Control, Optimization & Signal Processing (INCOS'17)", 978-1-5090-4776-5, 2017.
- 25. Karuppasamy M., Suprakash S., **Balakannan S.P**, "Energy Efficient Utilization of Cloud Resources Using Hybrid Ant colony Genetic Algorithm for a Sustainable Green Cloud Environment", IEEE International Conference on Engineering and Technologies ICET16, Dec-2016
- 26. Divya N, Suprakash S, **Balakannan S.P**, "An efficient VM Consolidation using Penguin Search Optimization Algorithm (PeSOA) for making Cloud Greener", 978-1-4673-9939-5/16 IEEE, 2016. (Impact Factor: 0.7)
- 27. Josphin, Suprakash S, **Balakannan S.P**, "An Optimal Virtual Machine Assignment Using Firefly Algorithm For Achieving Energy Efficiency In Data Centre", International Journal of Applied Engineering Research", pp. 3991-3994, 2015. (Impact Factor: 0.6)
- 28. Hariharasitaraman S, Naga Dhivya Karthika L, **Balakannan S.P**, "An improved dynamic provable data possession model using skip list and Merkle hash tree", International Journal of Applied Engineering Research, Vol:10 ISSN 0973-4562, June-2015. (Impact Factor: 0.6)
- 29. Durkadevi K, Maragatharajan M, **Balakannan S.P**, "Reliable Data Delivery for Highly Dynamic MANETs Using Adaptive Demand Driven Multicast Routing Protocol (ADMR)", International Journal of Advanced Research in Computer Science & Technology (IJARCST 2014), Pages 254-258, Vol.2, Issue Special 1, Jan-March 2014. (Impact Factor: 0.9)
- 30. Bhavani R, and **Balakannan S.P**, "Performance Analysis of Computing Clusters with Green Scheduling in Multi-cloud Environment", International Journal of Research in Engineering & Advanced Technology (IJREAT), Volume 1, Issue 2, May 2013. (Impact Factor: 2.3)
- 31. Karuppasamy M, Suprakash S and **Balakannan S.P**, "Energy Efficient Cloud Networks Towards A Sustainable Green Environment", International Journal of Research in Engineering & Advanced Technology (IJREAT), Volume 1, Issue 1, March 2013. (Impact Factor: 2.3)
- 32. Wei Song, **Balakannan S.P** and Moon Ho Lee, "A Simple Space-Time-Frequency Block Code Scheme for Four Transmit Antennas", Springer Wireless Personal Communications, Volume 70, Issue 4, pp 1363-1372, June 2013 (DOI: 10.1007/s11277-012-0753-9, 2012). (Impact Factor: 0.7)
- 33. Mi Sung Lee, **Balakannan S.P**, and Moon Ho Lee, "Network Coding Performance Analysis with Multicast Topology", Journal of The Institute of Electronics Engineers of Korea (IEEK), Vol.1. 47-TC, No.6, Pages 30-35, Nov 2010. (Impact Factor: 0.5)
- 34. Yier Yan, **Balakannan S.P** and Moon Ho Lee, "Cooperative Diversity Based on Distributed Interleavers and Its efficient Algorithm in Asynchronous Amplify-and-Forward Relay Networks", IEEE VTC2010-Fall, Doi: 10.1109/VETECF.2010.5594464, Pages. 1-5, ISSN: 1090-3038, Ottawa, Canada, 6–9 September, 2010. (Impact Factor: 0.5)

- 35. **Balakannan S.P**, Yier Yan, Jae Seung Yang and Moon Ho Lee, "End-to-End Network Delay-Constrained for QoS Multicast Routing", The First International Conference on Networks & Communications (NetCoM-2009), IEEE Computer Society, DOI 10.1109/NetCoM.2009.50, pp.178-183, Dec 27-29, 2009. (Impact Factor: 0.5)
- 36. Yier Yan, Gye Mun Jo, **Balakannan S.P** and Moon Ho Lee, "Cooperative Diversity Based on Interleavers and Its efficient Algorithm in Amplify-And-Forward Relay Networks", Journal of The Institute of Electronics Engineers of Korea (IEEK), Vol.1. 46-TC, No.6, Pages 94-102, Jun 2009. (Impact Factor: 0.7)
- 37. Yier Yan, Gye Mun Jo, **Balakannan S.P** and Moon Ho Lee, "Joint Channel estimation in Asynchronous Amplify-and-Forward Relay Networks based in OFDM signaling", Journal of The Institute of Electronics Engineers of Korea (IEEK), vol. 46-SC, no.1, Pages 55-62, Jan 2009. (Impact Factor: 0.7)
- 38. Moon Ho Lee, Veselin VI. Vavrek and **Balakannan S.P**, "A p^2+p+1 Factoring Algorithm and Cryptography", 2008 International Conference on Security Technology, (SecTech 2008), Hainan, China, IEEE Computer Society, Pages 219-220, Dec 2008. (Impact Factor: 0.5)
- 39. **Balakannan S.P**, Jeong Ki Kim, Yuri Borrissov and Moon Ho Lee, "Construction of Jacket Matrices Based on q-ary M-sequences", Journal of The Institute of Electronics Engineers of Korea (IEEK), Pages. 17-21, Vol. 45-TC, No. 7, July 2008. (Impact Factor: 0.5)
- 40. Jeong Ki Kim, **Balakannan S.P** and Moon Ho Lee, "Fast Multi-Rate LDPC Encoder Architecture for WiBro System", Journal of The Institute of Electronics Engineers of Korea (IEEK), PP. 1-8, Vol. 45-TC, NO. 7, July 2008. (Impact Factor: 0.5)
- 41. Yuri Borissov, Moon Ho Lee and **Balakannan S.P**, "Jacket Matrix Construction Using M-sequence", Proc. of 2007 International Symposium on Information Technology Convergence (ISITC 2007), IEEE Computer Society, Jeonju, Korea, Pages 333-337, 23-24 November 2007. (Impact Factor: 0.5)

International Conference Papers

- 42. Senthil Kumaran. S, **Balakannan. S.P**, A Performance Evaluation of Linux Containers on similar ARM based Internet of Things Development Boards, 3rd International Conference on Internet of Things and Connected Technologies (ICIoTCT), Elsevier, March 26-27, 2018.
- 43. Suprakash S, **Balakannan S.P**, "A Power Efficient Virtual Machine Consolidation For Saving Carbon Footprint Using Meta Heuristic Algorithms" International Conference on Data Security (INCODS-2017), Tamilnadu, India, Dec 2017.
- 44. Maragatharajan M, **Balakannan S.P**, Moon Ho Lee, "A Survey On Multicast Routing Protocols For MANET", International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems (ICDASDC-2014), 19,20-12-2014.
- 45. Yier Yan, **Balakannan S.P**, Liting Huang, Xiaojia Xiao, Moon Ho Lee, "A Class of Alamouti-like Orthogonal Space-Time Block Codes for High-rate Transmission" International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems (ICDASDC-2014), 19,20-12-2014.
- 46. Poongundran Selvaprabhu, Sunil Chinnadurai, Sang Seob Song, **Balakannan S.P**, Moon Ho Lee "Interference Alignment for Multi-Way MIMO Relay Network using Signal Space Alignment Method", International Conference on Design and Application of Structures, Drives, Communicational and Computing Systems (ICDASDC-2014), 19,20-12-2014.
- 47. Ananthaselvam P, **Balakannan S.P**, "Improving Quality of Service using Recovery Aware Protection in WDM Mesh Network", International conference on VLSI Computation, networks, drives & System Design, Sethu Institute of technology, pulloor, March 28, 2014.
- 48. Gururagavendran S, Suprakash, **Balakannan S.P**, "Service Level Agreement based Approach for Energy Efficient Optimization in Data Center", International Conference on Advances in Engineering, Technology and Management, NPR College of Engineering and Technology, Natham, March 28, 2014.
- 49. Renuka I, Bala Subramanian C, **Balakannan S.P**, "Comparison of Route Planning Algorithms for Mobile Anchor in Localization of WSN", National level Embedded System Conference, Anna University Regional Centre, Tirunelveli, March 28, 2014.
- 50. Ananthaselvam P, **Balakannan S.P**, "Quality of Service Based Recovery Aware Protection in WDM Mesh Network", National conference Advanced in computing Technology, St.Joseph College of engineering, Chennai, March 19, 2014.
- 51. Vimal Subramanian.G, Hariharasitaraman S, **Balakannan S.P**, "A Study of Cost reduction Scheme using Nested Bender's Decomposition in Cloud", International conference on Emerging Trends in Electronics and Communication, Maria college of Engineering and Technology, Kanyakumari, March 13,2014.
- 52. Durkadevi K, Maragatharajan M, **Balakannan S.P**, "Performance Comparison of ADMR and POR Routing Protocol in MANET", International conference on VLSI Computation, networks, drives & System Design, Sethu Institute of technology, pulloor, March 28, 2014.

- 53. **Balakannan S.P**, Bhavani R, "Performance Assessment of Cluster Nodes with Dynamic Priority Scheduling in Private Cloud Environment", International Conference On Innovative Trends In Computing And Technology (Icitct'13), March 2013.
- 54. **Balakannan S.P**, R.Aishwarya, N.Induja, "Distribution Based Geographic Multicasting Over MANET", International Conference on Intelligence Computing (ICONIC-12), Chennai, India, 3-4, May, 2012.
- 55. G. Partheeban, M. Vignesh, **Balakannan S.P**, "Tracing A Mobile Object In Wireless Networks (MANET)", International Conference on Intelligence Computing (ICONIC-12), Chennai, India, 3-4, May, 2012.
- 56. R. Sandeep, K.C. Vignesh, N. Viswanathan, **Balakannan S.P**, "A Video Aware FEC based Unequal Loss Protection System for Video Streaming over RTP" International Conference on Intelligence Computing (ICONIC-12), Chennai, India, 3-4, May, 2012.
- 57. **Balakannan S.P**, Chang-Hui Choe, Jae Jung Hwang, "Survey on Quality of Service (QoS) in Multicast Routing", The 13th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 92-96, Sep 4, 2010.
- 58. Wei Song, **Balakannan S.P**, Moon Ho Lee, "A Simple Full Diversity STBC Decoding for Four Transmit Antennas based on Zero-Forcing Interference Cancellation", The 13th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 76-79, Sep 4, 2010.
- 59. Moon Ho Lee, Yuri L.Borissov, **Balakannan S.P**, "Jacket Matrix Construction based on Almost Balanced Sequences with ideal Autocorrelation Property II", The 13th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 85-91, Sep 4, 2010.
- 60. **Balakannan S.P**, Yier Yan, Jae Seung Yang, Moon Ho Lee, Ju Yong Park, "Modeling TCP Reno and Congestion Control for HighSpeed Networks", The 12th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 71-75, Sep 4, 2009.
- 61. Wei Song, **Balakannan S.P**, Moon Ho Lee, Jin Su Jang, "A Simple Full rate and Full Diversity STFBC Scheme for Four Transmit Antennas", The 12th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 62-65, Sep 4, 2009.
- 62. **Balakannan S.P**, Yier Yan, Moon Ho Lee, "Improving Scalability on Secure Communication in Wireless Sensor Networks", The 11th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 82-85, Dec 12, 2008.
- 63. Yier Yan, **Balakannan S. P**, Subash Shree Pokhrel, Moon Ho Lee, "Recursive Estimation of Cancellations of Ordered Interferences and Clipping Noise for IDMA System in Limited Transmission", The 11th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Pages 78-81, Dec 12, 2008.
- 64. Jeong Ki Kim, **Balakannan S.P**, Moon Ho Lee and Chang Joo Kim, "Low Complexity Encoding of LDPC Codes for High-Rate and High-Speed Communication", The International Conference on Distributed Frameworks & Applications 2008 (DFmA 2008), Penang, Malaysia, Pages 189-193, 21-22 October 2008.
- 65. **Balakannan S.P**, Yier Yen and Moon Ho Lee, "An Efficient Message Matching Algorithm for Multicast Mobile Network", 10th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Korea, Pages 129-132, 21-22 July 2008.
- 66. **Balakannan S.P**, Yier Yan and Moon Ho Lee, "An Efficient Network Delay Analysis using Endto-End Delay-Constraint", The 2008 International Conference on Communications In Computing (CIC 2008), Las Vegas Nevada, USA, Pages 25-29, 14-17 July 2008.
- 67. Yier Yan, **Balakannan S.P** and Moon Ho Lee, "Modified Clipping in Superposition Coding System in Low Region of Clipping Ratio", The 2008 International Conference on Wireless Networks (ICWN 2008), Las Vegas Nevada, USA, Pages 300-305, 14-17 July 2008.
- 68. **Balakannan S.P**, Choi Seung Je and Moon Ho Lee, "Attaining Shortest Path with QoS Routing in Wireless Sensor Network using Viterbi Algorithm", 9th International Workshop on Multimedia Signal Processing & Transmission (MSPT), Jeonju, Korea, Pages 137-130, 8th December 2007.
- 69. **Balakannan S.P**, Karthik B, Chang-hui Choe and Moon Ho Lee, "Improving Wireless/Wire Network Performance using TCP/IP", Proc. SPIE, Vol. 6794, pp. 679440-679440-5, 2007.
- 70. Karthik B, **Balakannan S.P**, Perumal P and Moon Ho Lee, "A Study on Wireless Security Techniques", International Conference on Network Security & Workshop (ICONS 2007), Erode, India, Pages 282-290, January 2007.

National Conference Papers

- 71. **Balakannan S.P,** Kye Mun Cho, Subash Shree Pokhrel, Moon Ho Lee, "A Survey of Network Multicast Routing Protocols based in QoS", The Joint Conference in the fields of Information and Communication in 2008, Sunchon, South Korea, Pages 417-421, November 2008.
- 72. **Balakannan S.P**, Moon Ho Lee, and Karthik B, "Security and Authentication System for Bluetooth Mobile System", Information and Control Symposium (ICS 2007), Chonju, South Korea, Pages 261-263, April 2007.