

Dr. Bhagavathi Sivakumar P.

Associate Professor, Computer Science Engineering, School of Engineering, Coimbatore



Publications

Publication Type: Conference Proceedings	
Year of Publication	Title
2019	V. S., Dr. Bhagavathi Sivakumar P., and Anantha Narayanan V., “Efficient Real-Time Decision Making Using Streaming Data Analytics in IoT Environment”, International Conference on Advanced Computing Networking and Informatics. Advances in Intelligent Systems and Computing, vol. 870. Singapore, pp. 165-173, 2019.
2017	S. Sharad, Dr. Bhagavathi Sivakumar P., and Anantha Narayanan V., “The smart bus for a smart city - A real-time implementation”, 2016 IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2016. Institute of Electrical and Electronics Engineers Inc., 2017.
2017	Dr. Shunmuga Velayutham C., S, S., S, R., S, G., Dr. Bhagavathi Sivakumar P., and S, V., “Bayesian nonparametric Multiple Instance Regression”, Proceedings - International Conference on Pattern Recognition. Institute of Electrical and Electronics Engineers Inc., Cancun, Mexico, pp. 3661-3666, 2017.
2016	V. Anand R., Dr. Bhagavathi Sivakumar P., and V., S. Dhan, “Forecasting the Stability of the Data Centre Based on Real-Time Data of Batch Workload Using Times Series Models”, Proceedings of the International Conference on Soft Computing Systems, Advances in Intelligent Systems and Computing, in L.P. Suresh and B.K. Panigrahi (eds), vol. 398. Springer India, pp. 579-589, 2016.
2015	S. Sharad, Dr. Bhagavathi Sivakumar P., and Anantha Narayanan V., “A novel IoT-Based energy management system for large scale data centers”, e-Energy 2015 - Proceedings of the 2015 ACM 6th International Conference on Future Energy Systems. Association for Computing Machinery, Inc (ACM New York NY USA), pp. 313-318, 2015.
2014	D. Bhuvana and Dr. Bhagavathi Sivakumar P., “Brain Tumor Detection and Classification in MRI Images using Probabilistic Neural Networks”, In Proceedings of the Second International Conference on Emerging Research in Computing, Information,

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	Communication and Applications (ERCICA-14). Elsevier, pp. 796-801, 2014.
2013	N. S. Babu and Dr. Bhagavathi Sivakumar P., “Fusion Techniques For Thermal And Visual Face Images”, International Journal of Engineering Research and Technology, vol. 2(6). ESRSA Publications, pp. 3157-3161, 2013.
2012	T. Shajina and Dr. Bhagavathi Sivakumar P., “Human gait recognition and classification using time series Shapelets”, Proceedings - 2012 International Conference on Advances in Computing and Communications, ICACC 2012. Cochin, pp. 31-34, 2012.
2011	Dr. Bhagavathi Sivakumar P. and V.P., M., “Recurrence plot and recurrence quantification analysis as a tool for determining determinism in time series data: An empirical study on Indian stock data”, Proceedings - 4th International symposium on Recurrence Plots. Hong Kong Polytechnic University, Hong Kong, 2011.
2008	V. P. Vijina and Dr. Bhagavathi Sivakumar P., “Hybrid Techniques for Image Retrieval”, Proceedings of International Conference on Recent Trends in Computational Science (ICRTCS). Toc H Institute of Science and Technology, Kochi, 2008.
2008	R. Rupl and Dr. Bhagavathi Sivakumar P., “Gender Identification Using Fingerprint Images”, Proceedings of International Conference on Recent Trends in Computational Science (ICRTCS – 2008) . Toc H Institute of Science and Technology, Kochi, 2008.

Publication Type: Journal Article

Year of Publication	Title
2018	P. Vijai and Dr. Bhagavathi Sivakumar P., “Performance comparison of techniques for water demand forecasting”, Procedia Computer Science, vol. 143, pp. 258 - 266, 2018.
2017	K. A. Maheshwari and Dr. Bhagavathi Sivakumar P., “Wireless IoT Based Smart Parking Solutions using Sensor Technology in the Context of Planned Smart Cities in India”, Journal of Engineering and Applied Sciences, vol. 12, no. 8, pp. 8302-8308, 2017.
2016	S. Sharad, Dr. Bhagavathi Sivakumar P., and Anantha Narayanan V., “An Automated System to Mitigate Loss of Life at Unmanned Level Crossings”, Procedia Computer Science, vol. 92, pp. 404 - 409, 2016.

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Year of Publication	Title
2016	G. R. Ramya and Dr. Bhagavathi Sivakumar P., “Advocacy Monitoring of Women and Children Health through Social Data”, vol. 9, no. 6, 2016.
2016	C. Vishal, V., R. Shivnesh, Kumar, V. Romil, Anirudh, M., Dr. Bhagavathi Sivakumar P., Dr. Shunmuga Velayutham C., Suresh, L. P., and Panigrahi, B. K., “A crowdsourcing-based platform for better governance”, Proceedings of the International Conference on Soft Computing Systems, Advances in Intelligent Systems and Computing, in L.P. Suresh and B.K. Panigrahi (eds), vol. 397, pp. 519-527, 2016.
2015	K. Nithin D. and Dr. Bhagavathi Sivakumar P., “Generic Feature Learning in Computer Vision”, Procedia Computer Science, vol. 58, pp. 202 - 209, 2015.
2013	H. Renjini and Dr. Bhagavathi Sivakumar P., “Comparison of Automatic and Interactive Image Segmentation Methods”, International Journal of Engineering Research & Technology (IJERT), vol. 2, no. 6, pp. 3162-3170, 2013.
2010	Dr. Bhagavathi Sivakumar P. and V.P., M., “Performance Analysis of Hybrid Forecasting models with Traditional ARIMA Models - A Case Study on Financial Time Series Data”, International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM), vol. 2, pp. 187-211, 2010.
2010	Dr. Bhagavathi Sivakumar P. and Mohandas, V. Pb, “Performance comparison of attribute set reduction algorithms in stock price prediction - A case study on Indian stock data”, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), vol. 6466 LNCS, pp. 567-574, 2010.
Publication Type: Conference Paper	
Year of Publication	Title
2018	K. A. Maheshwari and Dr. Bhagavathi Sivakumar P., “Use of Predictive Analytics Towards Better Management of Parking Lot Using Image Processing”, in Computational Vision and Bio Inspired Computing, Cham, 2018, vol. 28, pp. 774-787.
2016	P. Vijai and Dr. Bhagavathi Sivakumar P., “Design of IoT Systems and Analytics in the Context of Smart City Initiatives in India”, in Procedia Computer Science, 2016, vol. 92, pp. 583-588.
2016	M. K. Shahanas and Dr. Bhagavathi Sivakumar P., “Framework for a Smart Water

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Year of Publication	Title
	Management System in the Context of Smart City Initiatives in India”, in Procedia Computer Science, 2016, vol. 92, pp. 142-147.
2015	K. Nithin.D and Dr. Bhagavathi Sivakumar P., “Learning of Generic Vision Features Using Deep CNN”, in 2015 Fifth International Conference on Advances in Computing and Communications (ICACC), Kochi, 2015.
2014	V Smrithi Rekha, Divya, N., and Dr. Bhagavathi Sivakumar P., “A Hybrid Auto-tagging System for StackOverflow Forum Questions”, in In Proceedings of the International Conference on Interdisciplinary Advances in Applied Computing (ICONIAAC '14), New York, NY, USA, 2014.
2014	D. V. Sagar, Dr. Bhagavathi Sivakumar P., and Anand, R. V., “Random forest and change point detection for root cause localization in large scale systems”, in IEEE International Conference on Computational Intelligence and Computing Research (ICCIC), 2014 (Best paper), Coimbatore, 2014.
2009	Dr. Bhagavathi Sivakumar P. and P., M. V., “Modeling and predicting stock returns using the ARFIMA-FIGARCH”, in Proceedings - 8th International Conference on Computer Information Systems & Industrial Management Applications, 2009.
1997	Dr. Bhagavathi Sivakumar P., K., P., and R., S., “An Expert system to test the space craft based Onboard Computer”, in Sixth symposium on Intelligent systems, organized by IEEE, Bangalore Section, India, 1997.
1996	Dr. Bhagavathi Sivakumar P. and G., G., “Automatic Grammar Acquisition towards autoprogramming”, in First international conference on Educational Computing, EDUCOMP'96, TTTI (Technical Teachers Training Institute), Chandigarh, India, 1996.
Publication Type: Book Chapter	
Year of Publication	Title
2018	S. Birindha, Anantha Narayanan V., and Dr. Bhagavathi Sivakumar P., “Smart Energy Management System Based on Image Analytics and Device Level Analysis”, in Computational Vision and Bio Inspired Computing. Lecture Notes in Computational Vision and Biomechanics, vol. 28, Springer, Cham, 2018, pp. 705-721.
2015	J. Anusha, V Smrithi Rekha, and Dr. Bhagavathi Sivakumar P., “Artificial Intelligence

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	and Evolutionary Algorithms in Engineering Systems”, in A Machine Learning Approach to Cluster the users of Stack Overflow Forum, vol. 325, P. L. Suresh, Dash, S. Subhransu, and Panigrahi, K. Bijaya, Eds. New Delhi: Springer India, 2015, pp. 411–418.
2007	Dr. Bhagavathi Sivakumar P. and Mohandas, V. P., “Evaluating the Predictability of Financial Time Series - A case study on SENSEX data”, in Innovations and Advanced Techniques in Computer and Information Sciences and Engineering - Edited by Tarek Sobh, Springer, 2007, pp. 99–104.