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PUBLICATIONS (Last Five Years)

Book

1. DNK Jayakody, **Kathiravan Srinivasan**, V Sharma, (2019). 5G Enabled Secure Wireless Networks, Springer, New York.

Book Chapter

1. R Vyas, **Kathiravan Srinivasan**, AK Cherukuri, KS Jodha, (2020) Assessing the Performance of Container Technologies for the Internet of Things Based Application. In: Hassanien A., Bhatnagar R., Khalifa N., Taha M. (eds) *Toward Social Internet of Things (SIoT): Enabling Technologies, Architectures and Applications*. Studies in Computational Intelligence, vol 846. Springer, Cham
2. PP Sriram, HC Wang, HG Jami, **Kathiravan Srinivasan**. (2019), ‘5G Security: Concepts and Challenges’, In: Jayakody D., Srinivasan K., Sharma V. (eds) *5G Enabled Secure Wireless Networks*, Springer, Cham
3. S.-T. Chen, **Kathiravan Srinivasan**, C. Lin, C.-Y. Chang, ‘Neonatal cry analysis and categorization system via directed acyclic graph support vector machine,’ Big Data Analytics for Sensor-Network Collected Intelligence (H-H Hsu, C-Y Chang and C-H Hsu eds.), Elsevier, March 2017.

Journal Papers

1. D. Elavarasan, D. R. Vincent P M, **Kathiravan Srinivasan**, and C.-Y. Chang, “A Hybrid CFS Filter and RF-RFE Wrapper-Based Feature Extraction for Enhanced Agricultural Crop Yield Prediction Modeling,” *Agriculture*, vol. 10, no. 9, p. 400, Sep. 2020. (Impact factor: **2.072**).
2. A. Kataria, S. Ghosh, V. Karar, T. Gupta, **Kathiravan Srinivasan**, and Y.-C. Hu, “Improved Diver Communication System by Combining Optical and Electromagnetic Trackers,” *Sensors*, vol. 20, no. 18, p. 5084, Sep. 2020. (Impact factor: **3.275**).
3. D. Patel, **Kathiravan Srinivasan**, C.-Y. Chang, T. Gupta, and A. Kataria, “Network Anomaly Detection inside Consumer Networks—A Hybrid Approach,” *Electronics*, vol. 9, no. 6, p. 923, Jun. 2020. (Impact factor: **2.412**).
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5. N. Mahendran, P. M. Durai Raj Vincent, **Kathiravan Srinivasan**, V. Sharma and D. K. Jayakody, "Realizing a Stacking Generalization Model to Improve the Prediction Accuracy of Major Depressive Disorder in Adults," in *IEEE Access*, vol. 8, pp. 49509-49522, 2020, doi: 10.1109/ACCESS.2020.2977887. (Impact factor: **4.098**).
6. **Kathiravan Srinivasan**, S. Senthil Kumaran, Quality Assessment of Friction Welding using Image Super-resolution via Deep Convolutional Neural Networks, *Materials Today: Proceedings*, Volume 22, Part 4, 2020, Pages 2266-2273, <https://doi.org/10.1016/j.matpr.2020.03.347>.
7. S. Kannappan, D. Samiayya, D. R. Vincent P M, **Kathiravan Srinivasan**, D. N. K. Jayakody, D. G. Reina, and A. Inoue, "An Efficient Hybrid Fuzzy-Clustering Driven 3D-Modeling of Magnetic Resonance Imagery for Enhanced Brain Tumor Diagnosis," *Electronics*, vol. 9, no. 3, p. 475, Mar. 2020. (Impact factor: **2.412**).
8. S. Senthil Kumaran, J. Kaliappan, **Kathiravan Srinivasan**, Y.-C. Hu, S. Padmanaban, and S. Narayanan, "Realizing a Novel Friction Stir Processing-Enabled FWTPET Process for Strength Enhancement Using Firefly and PSO Methods," *Materials*, vol. 13, no. 3, p. 728, Feb. 2020. (Impact factor: **3.057**).
9. **Kathiravan Srinivasan***, N Deepa, Durai Raj Vincent P M, Senthil Kumaran S, "Realizing the Resolution Enhancement of Tube-to-Tube Plate Friction Welding Microstructure Images Via Hybrid Sparsity Model for Improved Weld Interface Defects Diagnosis," *Journal of Internet Technology*, vol. 21, no. 1, pp. 61-72, Jan. 2020. (Impact factor: **0.786**).
10. Akshi Kumar, **Kathiravan Srinivasan**, Wen-Huang Cheng, Albert Y. Zomaya, Hybrid context enriched deep learning model for fine-grained sentiment analysis in textual and visual semiotic modality social data, *Information Processing & Management*, Volume 57, Issue 1, 2020, 102141, ISSN 0306-4573, <https://doi.org/10.1016/j.ipm.2019.102141>. (Impact factor: **4.787**).
11. C.-Y. Chang, **Kathiravan Srinivasan**, M.-C. Chen and S.-J. Chen, "SVM-Enabled Intelligent Genetic Algorithmic Model for Realizing Efficient Universal Feature Selection in Breast Cyst Image Acquired via Ultrasound Sensing Systems," *Sensors*, vol. 20, no. 2, p. 432, Jan. 2020. (Impact factor: **3.275**).
12. Y.-C. Hu, S. Kumaran Selvaraj, M. Subramanian, **Kathiravan Srinivasan***, and S. Narayanan, "Ultrasonic Sensors-Assisted Corrosion Studies on Surface Coated AlSi9Cu3 Alloy Die Castings," *Coatings*, vol. 10, no. 1, p. 85, Jan. 2020. (Impact factor: **2.436**).
13. Y-C. Hu, S. Manivannan, S. Senthil Kumaran, **Kathiravan Srinivasan**, K Kumar, S. Narayanan, P. Sanjeevikumar (2020). Smart Assessment of Environment Assisted Cracking of Grade 92 Material Using Different Test Solutions. *Materials Research Express*. 6. 10.1088/2053-1591/ab691d. (Impact factor: **1.929**).
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15. P. Chakriswaran, D. R. Vincent, **Kathiravan Srinivasan**, V. Sharma, C.-Y. Chang, and D. G. Reina, "Emotion AI-Driven Sentiment Analysis: A Survey, Future

- Research Directions, and Open Issues,” *Applied Sciences*, vol. 9, no. 24, p. 5462, Dec. 2019. (Impact factor: **2.474**).
16. S. Senthil Kumaran, **Kathiravan Srinivasan**, S. Narayanan, and A. N. Joseph Raj, “Prediction of Tensile Strength in Friction Welding Joins Made of SA213 Tube to SA387 Tube Plate through Optimization Techniques,” *Materials*, vol. 12, no. 24, p. 4079, Dec. 2019. (Impact factor: **3.057**).
 17. S. Manivannan, S. Senthil Kumaran, S. Narayanan, **Kathiravan Srinivasan**, and A. N. Joseph Raj, “Sensor-Assisted Assessment of the Tribological Behavioral Patterns of Al–SiCp Composites under Various Environmental Temperature Conditions,” *Materials*, vol. 12, no. 23, p. 4004, Dec. 2019. (Impact factor: **3.057**).
 18. S.A Shabbir, S. Malwade, A.A. Nursety, M. Sood, M.Bhatia, D. Barsasella, M. Liu, & C-C. Chang, **Kathiravan Srinivasan**, M., Raja & Y-C Li. (2019). Virtual reality among the elderly: a usefulness and acceptance study from Taiwan. *BMC Geriatrics*. 19. 10.1186/s12877-019-1218-8. (Impact factor: **3.077**).
 19. C. Iwendi, S. Ponnan, R. Munirathinam, **Kathiravan Srinivasan**, and C.-Y. Chang, “An Efficient and Unique TF/IDF Algorithmic Model-Based Data Analysis for Handling Applications with Big Data Streaming,” *Electronics*, vol. 8, no. 11, p. 1331, Nov. 2019. (Impact factor: **2.412**).
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 23. C. Chang, **Kathiravan Srinivasan**, H Hu, et al. SFFS–SVM based prostate carcinoma diagnosis in DCE-MRI via ACM segmentation. *Multidim Syst Sign Process* (2019) doi:10.1007/s11045-019-00682-3. (Impact factor: **c**).
 24. D. R. Vincent, N. Deepa, D. Elavarasan, **Kathiravan Srinivasan***, S. H. Chauhdary, and C. Iwendi, “Sensors Driven AI-Based Agriculture Recommendation Model for Assessing Land Suitability,” *Sensors*, vol. 19, no. 17, p. 3667, Aug. 2019. (Impact factor: **3.275**).
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- cell with effect of microorganisms. *Int J Energy Res.* 2019; 1– 7. <https://doi.org/10.1002/er.4685> (Impact factor: **3.741**)
27. Shaosen, S, Chen, D, **Kathiravan Srinivasan***, et al. Experimental and artificial intelligence for determination of stable criteria in cyclic voltammetric process of medicinal herbs for biofuel cells. *Int J Energy Res.* 2019; 1– 9. <https://doi.org/10.1002/er.4634> (Impact factor: **3.741**).
 28. Hua, K.-L.; Trang, H.T.; **Kathiravan Srinivasan***; Chen, Y.-Y.; Chen, C.-H.; Sharma, V.; Zomaya, A.Y. Reduction of Artefacts in JPEG-XR Compressed Images. *Sensors* 2019, *19*, 1214. (Impact factor: **3.275**)
 29. V Sharma; R Sabatini; S Ramasamy; **Kathiravan Srinivasan***; R Kumar, EFF-FAS: enhanced fruit fly optimisation based search and tracking by flying ad hoc swarm *International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)*, Vol. 30, No. 3, 2019. (Impact factor: **0.714**)
 30. **Kathiravan Srinivasan***, V Sharma, DNK Jayakody, DR Vincent, (2018). D-ConvNet: Deep learning model for enhancement of brain MR images. *Basic & Clinical Pharmacology & Toxicology*. 124. 3-4. (Impact factor: **2.651**)
 31. V Sharma, DNK Jayakody, **Kathiravan Srinivasan**, On the positioning likelihood of UAVs in 5G networks, *Physical Communication*, Elsevier, Volume 31, 2018, Pages 1-9. (Impact factor: **1.594**)
 32. D Elavarasan, DR Vincent, V Sharma, AY Zomaya, **Kathiravan Srinivasan***, Forecasting yield by integrating agrarian factors and machine learning models: A survey, *Computers and Electronics in Agriculture*, Volume 155, 2018, Pages 257-282. (Impact factor: **3.858**)
 33. **Kathiravan Srinivasan**, DD Pathak, R Kumar, DR Vincent & C-Y Chang (2018), Robust design and validation of balanced tournaments via Hamiltonian path, *Journal of Information and Optimization Sciences*, 39:8, 1783-1799.
 34. V. Sharma, R. Kumar, W. Cheng, M. Atiquzzaman, **Kathiravan Srinivasan*** and A. Y. Zomaya, "NHAD: Neuro-Fuzzy Based Horizontal Anomaly Detection in Online Social Networks," in *IEEE Transactions on Knowledge and Data Engineering*, vol. 30, no. 11, pp. 2171-2184, 1 Nov. 2018. (Impact factor: **4.935**)
 35. J. Sanchez-Riera, **Kathiravan Srinivasan**, K. L. Hua, W. H. Cheng, M. A. Hossain and M. F. Alhamid, 'Robust RGB-D Hand Tracking Using Deep Learning Priors,' in *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 28, no. 9, pp. 2289-2301. (Impact factor: **4.133**)
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39. A. Rajaram, D. N. K. Jayakody, **Kathiravan Srinivasan**, B. Chen and V. Sharma, 'Opportunistic-Harvesting: RF Wireless Power Transfer Scheme for Multiple Access Relays System,' in *IEEE Access*, vol. 5, no, pp. 16084-16099, 2017. doi:10.1109/ACCESS.2017.2734852 (Impact factor: **4.098**)
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42. Vishal Sharma, **Kathiravan Srinivasan***, Han-Chieh Chao, Kai-Lung Hua, Wen-Huang Cheng, 'Intelligent deployment of UAVs in 5G heterogeneous communication environment for improved coverage', *Elsevier: Journal of Network and Computer Applications*, vol. 85, pp. 94 – 105, 2017. (Impact Factor: **5.570**).
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44. Chuan-Yu Chang, Chuan-Wang Chang, **Kathiravan Srinivasan**, Chen Lin, Szu-Ta Chen, 2016, 'DAG-SVM based infant cry classification system using sequential forward floating feature selection,' *Multidim Syst Sign Process (Springer)* (2017) 28: 961. (Impact Factor: **1.810**)
45. Dhivya, M & **Kathiravan Srinivasan***, 2015, 'Driver Authentication and Accident Avoidance System for Vehicles,' *Smart Computing Review*, vol. 05, no. 1, pp. 29-36

Conference Papers

1. K. S. Jodha and **Kathiravan Srinivasan***, "Application of LSTM neural network for consumer electronics stock market," 2019 IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), YILAN, Taiwan, 2019, pp. 1-2. doi: 10.1109/ICCE-TW46550.2019.8991889
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3. V. R. Joshi, **Kathiravan Srinivasan***, and S. S. Manivannan, "Intelligent Agricultural Farming System using Internet of Things," 2019 IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW), YILAN, Taiwan, 2019, pp. 1-2. doi: 10.1109/ICCE-TW46550.2019.8991914
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 12. **Kathiravan Srinivasan***, NK Agrawal, "A Study on M-CORD based Architecture in Traffic Offloading for 5G-enabled Multi-access Edge Computing Networks," 2018 *International Conference on Applied System Innovation (ICASI)*, Chiba-city, Japan, 2018. doi: [10.1109/ICASI.2018.8394593](https://doi.org/10.1109/ICASI.2018.8394593)
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21. **Kathiravan Srinivasan***, R. Kumar and S. Singla, "Robust and efficient algorithms for storage and retrieval of disk based data structures," *2017 International Conference on Applied System Innovation (ICASI)*, Sapporo, 2017, pp. 934-937. doi: 10.1109/ICASI.2017.7988595. **(Best Paper Award)**
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