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LIST OF PUBLICATIONS

Book Chapters:

1. Chandrakala S, Machine Learning based Assistive Speech Technology for People with Neurological Disorders, Springer Nature – Recent Advances in Intelligent Assistive Technologies: Paradigms and Applications, 143-163, part of Intelligent Systems Reference Library (ISRL), vol 170, November 2019. ISBN 978-3-030-30817-9
2. N. Shreyas, M. Venkatraman, S. Malini and S. Chandrakala Trends of Sound Event Recognition in Audio Surveillance: A Recent Review and Study The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems ISBN 978-0-12-816385-6 , Elsevier Acdemic Press, 2020
3. S. Roshan, G. Srivathsan, K. Deepak and S. Chandrakala, Violence Detection in Automated Video Surveillance: Recent Trends and Comparative Studies, The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems ISBN 978-0-12-816385-6 , Elsevier Acdemic Press, pp.157-171, 2020
4. K. Deepak, , L. K. P. Vignesh, G. Srivathsan, S. Roshan, S. Chandrakala, Statistical Features-Based Violence Detection in Surveillance Videos, Cognitive Informatics and Soft Computing ISBN 978-981-15-1451-7, pp. 197-203, Springer Jan 2020

International Journals in last 5 years

1. Chandrakala S, Malini S and Jayalakshmi S.L., "Bag of Models based embedding for Assessment of Neurological disorders using Speech Intelligibility**", IEEE Transactions on Emerging Topics in Computing, accepted** DOI: 10.1109/TETC.2020.3003085 **(IF 6.04)**

2. Chandrakala S, Jayalakshmi S.L, Generative Model-Driven Representation Learning in a Hybrid Framework for Environmental Audio Scene and Sound Event Recognition, **IEEE Transactions on Multimedia, Vol 22, No.1, pp 3-14, Jan 2020 (IF 6.05)**
3. Deepak K, SrivatsanG, Roshan S, ChandrakalaS*., "**Deep Multi-View Representation Learning for Video Anomaly Detection using Spatio-Temporal Autoencoders**", Article published online, Springer Circuits, Systems and Signal processing Journal (**IF –1.670**).
4. Deepak K, ChandrakalaS*, KrishnamohanC., "**Residual Spatiotemporal Autoencoderfor Unsupervised Video Anomaly Detection**" DOI: 10.1007/s11760-020-01740-1, Article published online-Signal, Image and Video Processing Springer journal **(IF –1.794)**
5. Deepak K, Sikkandar MY, Siddharth S and Chandrakala S, "A similarity based representation for identifying anomalous healthcare activities", **Journal of Medical Imaging and Health Informatics, Vol. 10 (4), 787-794, 2020, (IF 0.55)**
6. Deepak K, Vignesh L K P, Chandrakala S* Autocorrelation of gradients based violence detection in surveillance videos, Corrected Proof, Available online 2 July 2020. 10.1016/j.icte.2020.04.014, ICT Express, Publisher: Elsevier (E-SCI)
7. Prasath, V., Deepak, K. and Chandrakala, S., 2020. "**Traffic Anomalies in Surveillance Videos: Recent Trends**". Journal of Computational and Theoretical Nanoscience, 17(1), pp.13-20.
8. Chandrakala S, Jayalakshmi S.L, Environmental Audio Scene and Sound Event Recognition for Autonomous Surveillance: A Survey and Comparative Studies**, ACM Computing Surveys, 2019; 52: 1-34. (IF 7.99)**
9. S.Jayalakshmi and S.Chandrakala, "Acoustic event detection for surveillance applications", **Elsevier, Applied Acoustics, vol.139, pp.113-118**, **Oct 2018, IF (2.3)**
10. S.Chandrakala and N.Rajeswari, **"**Repesentation Learning based speech assistive system for persons with Dysarthria**"**, **IEEE Transactions on Neural systems and Rehabilitation Engineering,** (IF 3.97), **Vol.25, No.9, September 2017.** 1558-0210

11. A.Pravin Renold and S.Chandrakala,"Convex-hull based boundary detection in unattended wireless sensor networks", **IEEE Sensors Letters, Vol. 1, No.4, August 2017, New Journal**
12. A.Pravin Renold and S.Chandrakala,**"** MRL-SCSO: Multi-agent Reinforcement Learning based Self-Configuration and Self-Optimization protocol for Un-attended Wireless Sensor Networks", Special Issue on "Advances and challenges in convergent communication networks" of **Springer Journal of Wireless Personal Communications, Vol. 90, Issue 3, Oct 2016. 5061-5079 (IF 1.2)**
13. N.Rajeswari and S.Chandrakala, "Generative Model-Driven Feature Learning for Dysarthric Speech Recognition", **Elsevier - Biocybernetics and Biomedical Engineering, Volume 36, Issue 4, pages 553-561, June 2016. (IF 2.16)**
14. A.Pravin Renold and S.Chandrakala,"A Survey on State Scheduling based Topology Control Mechanisms in Un-attended Wireless Sensor Networks", **Elsevier Computers & Electrical Engg. Issue 56, pp.334-349, Jan 2016 (IF 2.2)**

International Conference Papers:

1. S.Chandrakala and MA.Praveen, "A review on vision-based driver assistance system", IEEE 5th International Conference on Computing for sustainable global development", New Delhi, April 2018 (SCOPUS indexed)
2. S.Siddharth, Viswanath, Vignes and S.Chandrakala, "A review of vision-based assistive healthcare Monitoring", IEEE 5th International Conference on Computing for sustainable global development", New Delhi, April 2018 (SCOPUS indexed)
3. G.Pavithra and S.Chandrakala, "Navarasa: Facial expression recognition", Proceedings of the 7 th International conference on Advances in Science Engineering and Technology , 24th April 2017, Bengaluru, India.
4. R.Naveen Kumar and S.Chandrakala, "D**etecting aggressive human behavior in public environments",** International Conference on Advances in Emerging Technology (ICAET 2016), May 2016, Chennai

5. Prabha, Deepak and Chandrakala, **"Appearance and Motion based Approach for Anomalous Activity Detection in Crowded Scenes**", International Conference on Engg. Technology and science, pg.949-953, March 2015.
6. Anitha and Chandrakala, **"Vision Based Smart Home Monitoring for Elderly – A Survey",** Intl. Conference on Engg. Technology and science, pg.1023-1027, March 2015.
7. R. Manoharan and S.Chandrakala, **"Android Open CV Based Effective Driver Fatigue and Distraction Monitoring System"** IEEE International Conference on Computing and Communication Technologies (ICCCT "15) 26-27th February 2015, Chennai.