

Dr. Gireeshkumar T

TIFAC-CORE in Cyber Security, Coimbatore Campus

Dr. Gireeshkumar T. currently serves as Associate Professor at TIFAC-CORE in Cyber Security, Coimbatore Campus. His areas of research include Machine Learning, Algorithm and Robotics.

Research Projects

- Project Guide: **Classified Image Transmission Systems**
Funded By: (SAG), DRDO New Delhi 4.90Laks
- Principal Investigator: **Malware detection using FPGA, Sandboxing and Machine Learning**
Funded By: IBM SUR

AWARDS/RECOGNITION

1. TCS Best Research Paper Award for the paper titled “Tracking of nose tip: An Alternative for Mouse”,(ICDEM 2011)
2. Best Paper Award: “A Novel Authentication Framework for Hadoop, International Conference on Artificial Intelligence and Evolutionary Algorithms in Engineering Systems (ICAEES 2014)

Publications

Publication Type: Journal Article

Year of Publication	Title
2018	B.A. Sabarish, R. Karthi, and Dr. Gireesh K. T., “String based Feature Representation for Trajectory Clustering (Accepted)”, International Journal of Embedded and Real-Time Communication Systems (IJERTCS), 2018.
2018	B.A. Sabarish, R. Karthi, and Dr. Gireesh K. T., “Clustering of trajectory data using hierarchical approaches”, Lecture Notes in Computational Vision and Biomechanics, vol. 28, pp. 215-226, 2018.[Abstract]
2018	B.A. Sabarish, R. Karthi, and Dr. Gireesh K. T., “Spatial Outlier Detection Algorithm for Trajectory Data”, International Journal of Pure and Applied Mathematics, vol. 118, pp. 325-330, 2018.[Abstract]
2017	T. G. Gregory Paul and Dr. Gireesh K. T., “A framework for dynamic

Publication Type: Journal Article

Year of Publication	Title
	malware analysis based on behavior artifacts”, Advances in Intelligent Systems and Computing, vol. 515, pp. 551-559, 2017.[Abstract]
2017	S. S. Prabhu, Bhavani, R., Dr. Gireesh K. T., and Dr. T. Rajagopalan, “A computational approach to determine shielding effectiveness of carbon nanotube-based nanocomposites for \EMC\ application”, Computational Materials Science, vol. 126, pp. 400 - 406, 2017.[Abstract]
2016	N. S. Sunder and Dr. Gireesh K. T., “Privilege-based scoring system against cross-site scripting using machine learning”, Advances in Intelligent Systems and Computing, vol. 394, pp. 591-598, 2016.[Abstract]
2014	V. A. Pandian and Dr. Gireesh K. T., “A Novel Cloud Based NIDPS for Smartphones”, Communications in Computer and Information Science, vol. 420 CCIS, pp. 473-484, 2014.[Abstract]
2013	V. Dayanand, Dr. Gireesh K. T., and Sharma, R., “Comparative Study of Algorithms for Frontier based Area Exploration and Slam for Mobile Robots”, International Journal of Computer Applications, vol. 77, 2013.[Abstract]

Publication Type: Conference Proceedings

Year of Publication	Title
2017	R. E. Vinodhini, Malathi P., and Dr. Gireesh K. T., “A Survey on DNA and Image Steganography”, 2017 4th International Conference on Advanced Computing and Communication Systems (ICACCS). IEEE, Coimbatore, India, 2017.[Abstract]
2016	Malathi P. and Dr. Gireesh K. T., “Relating the Embedding Efficiency of LSB Steganography Techniques in Spatial and Transform Domains”, Procedia Computer Science, vol. 93. Elsevier, Rajagiri School of Engineering and TechnologyKochi; India, pp. 878-885, 2016.[Abstract]

Year of Publication	Title
2016	A. Eldho Jose and Dr. Gireesh K. T., “Gigabit Network Intrusion Detection System Using Extended Bloom Filter in Reconfigurable Hardware”, in Proceedings of the Second International Conference on Computer and Communication Technologies: IC3T 2015, Volume 1, C. Suresh Satapathy, Raju, S. K., Mandal, K. Jyotsna, and Bhateja, V., Eds. New Delhi: Springer India, 2016, pp. 11–19
2015	A. Velayudhan and Dr. Gireesh K. T., “An Autonomous Obstacle Avoiding and Target Recognition Robotic System Using Kinect”, in Intelligent Computing, Communication and Devices: Proceedings of ICCD 2014, Volume 1, L. C. Jain, Patnaik, S., and Ichalkaranje, N., Eds. New Delhi: Springer India, 2015, pp. 643–649
2015	R. S. Anoop, Dr. Gireesh K. T., and Saisuriyaa, G., “A Probabilistic Method Toward SLAM for Mobile Robotic Systems”, in Intelligent Computing, Communication and Devices: Proceedings of ICCD 2014, Volume 1, L. C. Jain, Patnaik, S., and Ichalkaranje, N., Eds. New Delhi: Springer India, 2015, pp. 285–291.
2015	P. K. Rahul and Dr. Gireesh K. T., “A Novel Authentication Framework for Hadoop”, in Artificial Intelligence and Evolutionary Algorithms in Engineering Systems: Proceedings of ICAEES 2014, Volume 1, P. L. Suresh, Dash, S. Subhransu, and Panigrahi, K. Bijaya, Eds. New Delhi: Springer India, 2015, pp. 333–340.
2015	Ashok Kumar Mohan and Dr. Gireesh K. T., “Secure Seed-Based Sturdy OTP via Convenient Carry-on Device”, in Artificial Intelligence and Evolutionary Algorithms in Engineering Systems: Proceedings of ICAEES 2014, Volume 1, P. L. Suresh, Dash, S. Subhransu, and Panigrahi, K. Bijaya, Eds. New Delhi: Springer India, 2015, pp. 447–455.
2015	B.A. Sabarish, R. Karthi, and Dr. Gireesh K. T., “A Survey of Location Prediction Using Trajectory Mining”, in Artificial Intelligence and Evolutionary Algorithms in Engineering Systems: Proceedings of ICAEES 2014, Volume 1, P. L. Suresh, Dash, S. Subhransu, and Panigrahi, K. Bijaya, Eds. New Delhi: Springer India, 2015, pp. 119–127.

Publication Type: Conference Paper

Year of Publication	Title
2016	S. Anuraj, Premalatha, P., and Dr. Gireesh K. T., “High Speed Network Intrusion Detection System Using FPGA”, in Proceedings of the Second International Conference on Computer and Communication Technologies: IC3T 2015, Volume 1, New Delhi, 2016, pp. 187–194.
2016	S. K. Rahul, Honc, D., Dušek, F., Dr. Gireesh K. T., F., H., O., R., and M., M., “Frontier based multi robot area exploration using prioritized routing”, in Proceedings - 30th European Conference on Modelling and Simulation, ECMS 2016, 2016, pp. 25-30.