Faculty Profile



Dr.Rajagopalan Devanathan

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Experience: About 48 years in Teaching, Research & Industry

Research area: Control Systems, Power Systems, Discrete Event Systems, Nonlinear

Systems, Satellite Image processing, Game theory, Computer

Arithmetic and Computational Linguistics.

Recent Publications:

(Last Five years)

- 1. S Janakiraman and Rajagopalan Devanathan, "Linearization of Three Phase Horizontal Gravity Separator", International Journal of Automation and Control, UK., Vol. 15, No.6, 2021, pp.744-773
- 2. S Janakiraman and R Devanathan, "Tuning Linearizing Transformation Using Back Propagation Algorithm", Advanced Aspects of Engineering Research, Book Publication International, India, UK, 2021
- 3. S Lakshmisridevi and R Devnathan, "Authorship Attribution Using Regression Model, Chapter 26 in (Ed: Jennifer S Raj) International Conference on Mobile Computing and Sustainable Informatics, 2020, ICMCSI 2020, A Springer Publication
- 4. Mutum Bidyarani Devi, , Rajagopalan Devanathan," Evaluation of Pansharpening Techniques using Lagrange Optimization", Advances in Technology Innovation, vol. 5, no. 3, 2020, pp. 166-181
- 5. Janakiraman S and R Devanathan, "Tuning Linearization Transformation using Back-propagation Algorithm", International Journal of Engineering and Advanced Technology, Volume-9 Issue-1, October 2019 in Regular Issue
- 6. Mutum Bidyarani Devi, , Rajagopalan Devanathan, "Pansharpening of remote sensing data of earth satellite images", Procedia Environmental Science, Engineering and Management 6 (2019) (3), 353-363
- 7. Rajasekhar A and R Devanathan, Application of Individual Channel Design to Server Control, International Journal of Innovative Technology and Exploring Engineering, Vol.8, Issue 9, 2019

- 8. Lairenjam Obiroy Singh, Rajagopalan Devanathan, Study of Performance of Bio-Inspired Strategies Applied to Pursuit Evasion Game Under Feedback Laws, Advances in Science, Technology and Engineering Systems Journal, Volume 4, Issue 3, 2019
- 9. Reshmila S, and Devanathan R, "Diagnosability of a class of discrete event systems based on observations", Accepted for publication in Control Theory and Technology, Springer, 2019
- 10. Rajasekhar A and R Devanathan, "Closed Loop Decoupling Control of a Computer Server System", Journal of Advanced Research in Dynamical and Control Systems, Dec 2018, (ISSN 1943-023X)
- 11. C E Geethadevi and R Devanathan, "Linearization of STATCOM", Eighth Power India International Conference, PIICON NIT, Kurukshetra, Dec 2018
- 12. Mutum Bidyarani Devi, R Devanathan. "Data Fusion of Panchromatic and Multispectral Images based on Optimization Using Lagrange Multiplier", ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume IV-5, 2018 ISPRS TC V Mid-term Symposium "Geospatial Technology Pixel to People", 20–23 November 2018, Dehradun, India.
- 13. Mutum Bidyarani Devi , R Devanathan . "Fusion of Panchromatic and Multispectral Images Using Lagrange Multiplier". Proceedings Asian Conference on Remote Sensing 2018, 2155-2163, 15-19, October 2018, Kuala Lumpur, Malaysia.
- 14. Mutum Bidyarani Devi, R Devanathan, "Pansharpening Using Data Driven Model Based on Linear Regression". 2018 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 1-6, 16-17, March, 2018, Bangalore.
- 15. Georgina Binoy Joseph and R. Devanathan, "Design and Analysis of Online Arithmetic Operators for Streaming Data in FPGAs", Chapter 22, Advanced Engineering Research and Applications, Research India Publications, ISBN: 978-93-87374-27-0, 2018
- 16. Georgina Binoy Joseph and R. Devanathan, "Algorithms for Multiplierless Multiple Constant Multiplication in Online Arithmetic", Circuits, Systems and Signal Processing, Springer USA, SSN 0278-081X, https://doi.org/10.1007/s00034-018-0811-y, 2018
- 17. Georgina Binoy Joseph and R Devanathan, "Computation of Design Metrics in Online Arithmetic Networks", 978-1-5386-5744-7/18/ IEEE Xplore, 2018.
- 18. L. Obiroy Singh and R. Devanathan, "Comparative Study of the Performance of Application of Bio-Inspired Strategies to Pursuit Evasion Game Under Feedback Laws," Proc. 18th International Conference on Control, Automation and Systems, South Korea, 2018, pp. 276–281.
- 19. L. Obiroy Singh and R. Devanathan, "Performance improvement of bio-inspired strategies through feedback laws," in Advances in Intelligent Systems and Computing ,Morroco, 2018, pp. 143–156.
- 20. S Janakiraman and Rajagopalan Devanathan. "An Analysis of Quadratic Linearization of Three Phase Horizontal Gravity Separator", International Conference on Control,

- Decision and Information Technologies "CoDIT-2018". (IEEE Xplore), Thessaloniki, Greece, 10-13 April 2018.
- 21. S.Lakshmisridevi, R.Devanathan, "Regression Model of Rank-Frequency Data of Tamil Text" International journal of Engineering and Technology, Aug 2018
- 22. S.Lakshmisridevi, R.Devanathan, "An Analysis of Variation of Model Parameters of Text Rank -Frequency data with Corpus size ", Journal of Advanced Research in Dynamical and Control Systems, 2018
- 23. S.Lakshmisridevi, R.Devanathan, "Authorship Attribution using a Regression Model of Text", Proceedings of 2018 International Conference on Electronic, Computing and Communication Technologies, CONECCT 2018, Bangalore.
- 24. Rajasekhar A and R Devanathan," Decoupling Control of Computer Server System", IEEE International Conference on Electronics, Computing and Communication Technologies 2018, Bangalore.
- 25. Georgina Binoy Joseph and R. Devanathan, "A Mathematical Framework for Online Constant Coefficient Multiplication" International Journal of Engineering and Technology Innovation (IJETI, Taiwan), ISSN: 2223-5329 (print), ISSN: 2226-809X (online), 2017.
- 26. Bhuvanadas ARUNA and Rajagopalan DEVANATHAN, "Necessary and sufficient condition for modified Nevanlinna-Pick interpolation for closed-looppole placement", Control Theory and Technology, Springer, 2017
- 27. Joseph, G.B., Devanathan, R, "A mathematical framework for online constant coefficient Multiplication", International Journal of Engineering and Technology Innovation, 2017
- 28. S.Lakshmisridevi, R.Devanathan "Linear Regression Model of Frequency Spectrum of Text" International Journal of Control Theory and Applications", March 2017.
- 29. S.Lakshmisridevi, R.Devanathan "Modification of Zipf -Mandelbrot Law for Text Analysis using Linear Regression", Proceedings of Second International conference on Recent Trends in Computer Science and Electronics 2017, Kualalumpur, Malaysia, 02-03 Jan2017, Paper 180.
- 30. Mutum Bidyarani Devi, R Devanathan, "Pansharpening Using Data driven Model" Proceedings National Conference on Small Satellites Technology and Applications (NCSSTA), December, 2017, Chennai.
- 31. S Janakiraman and Rajagopalan Devanathan. "Quadratic Linearization of Three Phase Gravity Separator Model", IEEE International (biennial) Conference on "Technological Advancements in Power & Energy–TAP Energy 2017" Amrita Vishwa Vidyapeetham, Amritapuri, Kerela.
- 32. S.Lakshmisridevi, R.Devanathan "An Analysis of Variation of Model Parameters of Text Rank -Frequency data with Corpus size" Proceedings of Second International Conference on Sustainable Computing Techniques in Engineering Science and Management '2017 Belgavi, 27-28 Jan 2017

- 33. S.Lakshmisridevi, R.Devanathan "Linear Regression Model of Frequency Spectrum of Text" Proceedings of 3rd International Conference in Advanced Computer Science and Engineering 2017 Hyderabad, 04 Feb 2017
- 34. C E Geethdevi, R Devanathan, "Linearization of STATCOM", Proc. National Conference Proceedings, Viswajyothi College of Engineering and Technology, Kerala, June 2017
- 35. Georgina Binoy Joseph and R.Devanathan, "Design and Analysis of Online Arithmetic Operators for Streaming Data in FPGAs", International Journal of Applied Engineering Research, 2016