SSN COLLEGE OF ENGINEERING

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Department of Information Technology

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Journal Publications - Faculty

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(2017 – 2018 & 2018 – 2019)

Dr. T. Nagarajan : 6+1 : 7

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1) Speech-Input Speech-Output Communication for Dysarthric Speakers Using HMM-Based Speech Recognition and Adaptive Synthesis System Published on : 2018-02-01

2) A Multilingual to Polyglot Speech Synthesizer for Indian Languages Using a Voice-Converted Polyglot Speech Corpus Published on : 2018-05-01

3) Significance of Differenced EGG Signal as a Spectrum in Phase-Difference Computation for the Estimation of Glottal Closure Instants Published on : 2018-05-01

4) Pause-Based Phrase Extraction and Effective OOV Handling for Low-Resource Machine Translation Systems Published on : 2018-12-01

5) A Weighted Speaker-Specific Confusion Transducer-Based Augmentative and Alternative Speech Communication Aid for Dysarthric Speakers Published on : 2018-12-01

6) G. Anushiya Rachel, P. Vijayalakshmi, T. Nagarajan, “Estimation of Glottal Closure Instants from Degraded Speech using a Phase-Difference-Based Algorithm”, Computer, Speech, and Language, Vol. 46, pp. 136 – 153, Nov. 2017

7) **Vijayalakshmi P, Nagarajan T. “Exploiting Acoustic Similarities Between Tamil and Indian English in the Development of an HMM-based Bilingual Synthesizer”, *IET Signal Processing*. Vol-11, Issue-3, pp. 332-340, May-2017.**

Dr. R. Srinivasan : 5 + 4 : 9

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1) Heavy ion impact on narrow band cascoded low noise amplifier Published on : 2018-12-01

2) N. Vinodhkumar, and R. Srinivasan, “SET and SEU performance of Single, Double, Triple and Quadruple-Gate Junctionless FETs Using Numerical Simulations”, Microelectronics Journal (Elsevier Publisher), Vol. 67, pp. 38-42, Sep 2017.

3) R. Ambika, R. Srinivasan, "Sensitivity of Silicon Nanotube Field Effect Transistor to Structural Process Parameters", Journal of nanoelectronics and optoelectronics, vol. 12, No.10, Oct 2017, pp. pp. 1098-1104.

4) Scarlet, S, P, Srinivasan, R and Sasikala, P, ‘Nanoscale Junctionless Devices Using RingFET Structure on Bulk Silicon Substrate’, International Journal of Electronic Letters (Taylor and Francis)., vol. 1724, pp. 1–13, 468-480, Oct 2017.

5) Priscilla Scarlet, and R Srinivasan, “Performance Optimisation of Junctionless FET in Nano regime using Segmented Channel- A 3D Numerical simulation study” Superlattices and Microstructures (Elsevier Publisher), Vol. 111, pp.1233-1243, Nov 2017.

6) **G Durga, and R Srinivasan, “SET Analysis of Silicon Nanotube FET”, Journal of computational electronics, Vol. 16, No. 2, pp. 307-315, June 2017.**

**7) G.Durga, R.Srinivasan, “Silicon nanotube SRAM and its SEU reliability”, Superlattices and Microstructures, Vol:106, pp: 129 - 138, March 2017.**

**8) Priscilla Scarlet, R Ambika and R Srinivasan, “Effect of Eccentricity on Junction and Junctionless-based Silicon Nanowire and Silicon Nanotube FETs” Superlattices and Microstructures (Elsevier Publisher), Vol. 107, 178-188, 2017. In 2017-8**

**9) Ambika, R., N. Keerthana, and R. Srinivasan. "Realization of Silicon nanotube tunneling FET on junctionless structure using single and multiple gate workfunction", Solid-State Electronics, Vol-127, pp.45-50, Jan 2017.**

Dr. A. Shahina : 1

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1) An Analysis of The Effect of Combining Standard and Alternate Sensor Signals on Recognition of Syllabic Units for Multimodal Speech Recognition Published on : 2018-11-01

Dr. T. Sree Sharmila : 10 + 1 : 11

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1) A two-level secure data hiding algorithm for video steganography Published on : 2018-03-20

2) Optic disc and cup segmentation in fundus retinal images using feature detection and morphological techniques Published on : 2018-08-01

3) An efficient framework for image retrieval using color, texture and edge features Published on : 2018-08-01

4) Real time blink recognition from various head pose using single eye Published on : 2018-12-01

5) Disc bulge diagnostic model in axial lumbar MR images using Intervertebral disc Descriptor Published on : 2018-10-01

6) A wavelet transform based contrast enhancement method for underwater acoustic images Published on : 2018-10-01

7) Image fusion for MODIS and Landsat images using top hat based moving technique with FIS Published on : 2018-01-30

8) G.S.Priyadharsini, T. Sree Sharmila, L.K. Pavithra, “Color clustering based color feature extraction in content based image retrieval”, International Journal of Computer and Mathematical Sciences, Vol. 6, Issue. 8, pg. 63-66, Aug 2017.

9) Sharmila R, Sree Sharmila T, “Study of landslide-prone area detection using remote sensing techniques”, International Journal of Computer and Mathematical Sciences, Vol. 6, Issue. 8, pg. 55-60, Aug 2017.

10) Sree Sharmila T, Pavithra L K, Aneerudh P, “Rubik’s cube solution in augmented reality environment”, International Journal of Computer and Mathematical Sciences, Vol. 6, Issue. 8, pg. 45-51, Aug 2017.

11) Acoustic image enhancement using Gaussian and Laplacian pyramid – a multiresolution based technique Published on : 2018-03-01

Dr. S. Chitra : 8 + 1 : 9

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1) Brain storm-based Whale Optimization Algorithm for privacy protected data publishing in cloud computing Published on : 2018-02-28

2) A Lightweight Trust Scheme for Iot. Published on : 2018-09-01

3) Performance analysis of IoT protocol under different mobility models Published on : 2018-11-01

4) An Empirical Study of Feature Selection Methods over Classification Algorithms Published on : 2018-01-01

5) Enhanced Portable Text To Speech Converter For Visually Impaired Published on : 2018-01-01

6) BCI Cinematicsâ€“A pre-release analyser for movies using H2O deep learning platform Published on : 2018-03-01

7) Yoganand.S and Dr.S.Chithra, “Condition Monitoring of Small Wind Turbines using IoT (A- Statistical Survey and Analysis)”, International Journal of Computer & Mathematical Sciences, ISSN 2347 – 8527, Volume 6, Issue 7 July 2017.

8) M.Srisivanandhini and Dr. S.Chithra, “Implementation and Analysis of LPWAN Technology using LoRa Architecture”, International Journal of Engineering Technology Science and Research, IJETSR, ISSN 2394 – 3386, Volume 4, Issue 10, October 2017.

**9)Amirthavalli Madhwaraj and Chithra Selvaraj, “Taxonomy of Attacks and Secure Data Aggregation Mechanisms for Smart Environment”, Middle-East Journal of Scientific Research 25 (3): 603-615, 2017.**

Dr. N. Bhalaji : 8 + 2 : 10

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1) An augmented approach for pseudo-free groups in smart cyber-physical system Published on : 2018-03-10

2) A Lightweight Trust Scheme for Iot. Published on : 2018-09-01

3) Performance analysis of IoT protocol under different mobility models Published on : 2018-11-01

4) An Empirical Study of Feature Selection Methods over Classification Algorithms Published on : 2018-01-01

5) Enhanced Portable Text To Speech Converter For Visually Impaired Published on : 2018-01-01

6) BCI Cinematicsâ€“A pre-release analyser for movies using H2O deep learning platform Published on : 2018-03-01

7) Behavioral Modeling for Mental Health using Machine Learning Algorithms Published on : 2018-05-01

8) New Optimized Distributed Scheduling Service using Genetic Computing Published on : 2018-11-01

**9) Sandana Karuppan, N.Ramraj and N.Bhalaji “A Metaheuristic Resource Allocation Scheme in Cloud Computing”, Journal of Computational and Theoretical Nanoscience, Vol. 14, pp.1339-1349, June 2017.**

**10) N.Bhalaji, M.Kathiravan “Mining Frequent and Infrequent Aspect Extraction for Sentiment Classification Using Online Reviews”, Journal of Computational and Theoretical Nanoscience, Vol. 14, pp.1339-1349, June 2017.**

Dr. S. Karthika : 4 + 1 : 5

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1) Identification of Trending Topics Using Periodically Collected Twitter Data Published on : 2018-07-01

2) Categorisation of Tweets Using Ensemble Classification Methods Published on : 2018-07-01

3) Analysis of machine learning algorithm for identifying key players in covert networks Published on : 2018-02-01

4) MutatedSocioAgentSim (MSAS): semi supervised modelling of multiagent simulation to predict and detect the mutation in a camouflaged social network Published on : 2018-03-01

**5) S. Karthika & P.Saranya, “Email Analysis for Community Detection - Multi-User Perspective”, *International Journal of Advanced Engineering Research and Science*, Vol-4, Issue-2, pp. 57-61, Feb- 2017.**

Dr. S. Poornima : 2

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1) Mobile Application For Out-Pass Generation Published on : 2018-07-01

2) Outlier Detection using Clustering Techniques Published on : 2018-07-01

Dr. S. Mohanavalli : 5

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1) Identification of Trending Topics Using Periodically Collected Twitter Data Published on : 2018-07-01

2) Categorisation of Tweets Using Ensemble Classification Methods Published on : 2018-07-01

3) Outlier Detection using Clustering Techniques Published on : 2018-07-01

4) Behavioral Modeling for Mental Health using Machine Learning Algorithms Published on : 2018-05-01

5) Optimized bi-level classifier for brain tumor type and grade discrimination using evolutionary fuzzy computing Published on : 2018-11-01

Dr. N. Sripriya : 3

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1) Mobile Application For Out-Pass Generation Published on : 2018-07-01

2) Outlier Detection using Clustering Techniques Published on : 2018-07-01

3) Significance of Differenced EGG Signal as a Spectrum in Phase-Difference Computation for the Estimation of Glottal Closure Instants Published on : 2018-05-01

Dr. K. R. Uthayan : 1

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1) Categorisation of Tweets Using Ensemble Classification Methods Published on : 2018-07-01

Dr. I.. Joe Louis Paul : 2 + 2 : 4

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1) A Working Model for Mobile Charging using Wireless Power Transmission Published on : 2018-07-01

2) I. Joe Louis Paul, S. Sasirekha, “A safety system for school children using GRAG", International Journal of Computer Aided Engineering and Technology, Inderscience Publishers

**3) Joe Louis Paul, S. Sasirekha, S. Jesu Iswarya, R. Praveen Chandru, “Fruit Freshness Monitoring System during Transportation - An RFID and WSN based Monitoring System”, Pakistan Journal of Biotechnology, Vol. 13 special issue II (International Conference on Engineering and Technology Systems (ICET’16)), pp. 29 – 34, March 2017.**

**4) R. Mohan Raheja, L. Kishore, I. Joe Louis Paul, “Physiological Analysis of Hypertension Patients by Monitoring the Brain Waves”, Pakistan Journal of Biotechnology, Vol. 13, special issue II (International Conference on Engineering and Technology Systems (ICET’16)), pp. 83 – 86, March 2017.**

Dr. P. Vasuki : 1

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1) A Smart Watchdog - Intruder Detection System Published on : 2018-08-01

Dr. S. Sasirekha : 3 + 2 : 5

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1) A Working Model for Mobile Charging using Wireless Power Transmission Published on : 2018-07-01

2) I. Joe Louis Paul, S. Sasirekha, “A safety system for school children using GRAG", International Journal of Computer Aided Engineering and Technology, Inderscience Publishers

3) Sasirekha Selvakumar, and Sankaranarayanan Swamynathan. "Cluster-chain mobile agent routing algorithm for efficient data aggregation in wireless sensor network." Journal of Communications and Networks vol. 19, no. 4, Aug 2017, pp. 392-401

**4) Joe Louis Paul, S. Sasirekha, S. Jesu Iswarya, R. Praveen Chandru, “Fruit Freshness Monitoring System during Transportation - An RFID and WSN based Monitoring System”, Pakistan Journal of Biotechnology, Vol. 13 special issue II (International Conference on Engineering and Technology Systems (ICET’16)), pp. 29 – 34, March 2017**

**5) Sasirekha, S., and S. Swamynathan. "Fuzzy Rule Based Environment Monitoring System for Weather Controlled Laboratories using Arduino", International Journal of Intelligent Information Technologies (IJIIT), Vol-13, Issue-1, pp. 50-66, Jan 2017.**

Dr. E. M. Malathy : 1 + 1 : 2

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1) State of Art: Vertical Handover Decision Schemes in Next-Generation Wireless Network Published on : 2018-03-21

2) E.M.Malathy and Dr Vijayalakshmi Muthuswamy, "Approximation design scheme for vertical handover in next generation wireless network", International Journal of Advanced Research in Basic Engineering Sciences and Technology, Vol. 3(32), pp. 83-86, April 2017.

Mr. Vinob Chnader : 1

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1) R. Vinob chander, Saswati Mukherjee, Susan Elias, “An Applications Interoperability Model for heterogeneous Internet of Things Environments”, Computers and Electrical Engineering, Elsevier, 64, 163-172, Nov 2017.

Ms. Srividya : 4

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1) Identification of Trending Topics Using Periodically Collected Twitter Data Published on : 2018-07-01

2) Categorisation of Tweets Using Ensemble Classification Methods Published on : 2018-07-01

3) Outlier Detection using Clustering Techniques Published on : 2018-07-01

4) Behavioral Modeling for Mental Health using Machine Learning Algorithms Published on : 2018-05-01

Ms. N. Radha : 4 + 1 : 5

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1) Text to Speech Conversion of Documents using Concatenative Speech Synthesis Published on : 2018-02-01

2) Embodied Conversational Agent-based Control Interfaces for Home Automation System Published on : 2018-02-01

3) Automatic Gender recognition using ANFIS Published on : 2018-02-01

4) An Analysis of The Effect of Combining Standard and Alternate Sensor Signals on Recognition of Syllabic Units for Multimodal Speech Recognition Published on : 2018-11-01

5**) N Radha, S Swetha, Siva, "Visual Speech Recognition using MV Features", International Journal Of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST), Vol 3,Special Issue 32 - pp.87-95, April 2017.**

Ms. T. Shanmughapriya : 1

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1) Reliability score inference and recommendation using fuzzy-based technique for social media applications Published on : 2018-12-01

Ms. J. Sofia Jennifer : 1

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1) Real time blink recognition from various head pose using single eye Published on : 2018-12-01

Ms. R. Swathika : 1

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1) Image fusion for MODIS and Landsat images using top hat based moving technique with FIS Published on : 2018-01-30

Mr. A. Sandana Karuppan : 1 + 2 : 3

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1) New Optimized Distributed Scheduling Service using Genetic Computing Published on : 2018-11-01

**2) Sandana Karuppan, N.Ramraj and N.Bhalaji “A Metaheuristic Resource Allocation Scheme in Cloud Computing”, Journal of Computational and Theoretical Nanoscience, Vol. 14, pp.1339-1349, June 2017.**

**3) Nilofar Parveen R, Sophia Josephine, A. Sandana Karuppan, "A Hybrid Cloud Scheduling Model Using AHP Approach" in IJARIIE, 3(2), 1962-1972(2017).**

Mr. K. Kabilan : 1

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1) Performance analysis of IoT protocol under different mobility models Published on : 2018-11-01

Dr. V. Thanikachalam : 1

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1) Action Recognition Based on Structure and Motion of the Human in the Video Published on : 2017-05-01

Mr. V. Sivamurugan : 1

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1) Performance Analysis shape recognition algorithms on Embedded Boards RASPBERRYPI and ODROID-C2 Published on : 2017-03-01