List of Conference Publications from the Department 2015-2022

Year	2022	2021	2020	2019	2018	2017	2016	2015	Total
No. of Publications	6	16	15	43	19	16	19	14	148

Sno	Authors Names	Title of Paper	Name of the Conference	Volume	Page nos	Year
			2022			
1.	Abhishek Kumar, Then Mozhi G., Dhanalakshmi K.	Simulation of Shape memory wire-based exoskeleton for flexion and Extension of the upper limb.	Proceedings of 7th International conference for convergence in Technology (I2CT)		Pune	April 2022
2.	Ajay Gopal Tirumalai Echambadi, Shuprajhaa T, Srinivasan K	Output Voltage Regulation of Step-Up Converters Using Predictive Control for PV Systems.	Recent trends in Instrumentatio n and Control (RTIC - 2022)	Ac ce pte d (In pre ss)	MIT, Chen nai	2022
3.	Thulasi M Santhi, K. Srinivasan	Security Enhanced IoT Based Wireless Sensor Network Using Heuristic Algorithm and Advanced Encryption Standard.	Recent trends in Instrumentatio n and Control (RTIC - 2022)	Ac ce pte d (In pre ss)	MIT, Chen nai	2022
4.	Prabakar V, K. Srinivasan	Design of an Integrated Data Acquisition System for Aero Engine Testing Using LabVIEW Virtual Instrumentation.	Proceedings of International Conference on Engineering, Science and Technology	Ac ce pte d	Chica go, USA	2022
5.	Sangeetha B, Periyasamy R	Empirical Mode Decomposition, S-method and Steepest Gradient-based Reconstruction Algorithm for Denoising Lung Sound	Proceedings of 7th International conference for convergence in Technology (I2CT)		Pune	April 2022
6.	Aditya Dawala, Asfif Ahmed, Periyasamy R,	An MFCC Features-driven subject-independent Convolution Neural	2022 3rd International Conference for		*Belga um, India*	May 2022

	Deepak Joshi	Network for Detection of Chronic and Non-chronic Pulmonary Diseases	Emerging Technology (INCET)			
2021						
1.	G. Then Mozhi, M. Banu Sundareswari, and Dhanalakshmi K.	The Bidirectional Position control of the Prismatic joint for Motorized single link Robotic arm using Adaptive Super-Twisting Sliding Mode Control, 36th Indian Engineering Congress,	36th Indian Engineering Congress, Dec. 2021		New Delhi	Dec. 2021
2.	M. Banu Sundareswari, G. Then Mozhi, and Dhanalakshmi K.	The Adaptive dual layer sliding mode control for Ball on plate system driven by shape memory alloy wire, 36th Indian Engineering Congress,	36th Indian Engineering Congress, Dec. 2021		New Delhi	Dec. 2021
3.	R. M. Ohol and Dr. B. Vasuki	Design and implementation of a combined liquid pump and active-passive mixer for drug delivery system by utilizing two 1-DOF piezoelectric actuated beams	International Conference on Novel Engineering Materials for Biomedical, Energy, Environment, Sensing and Other Applications,		NIT Trichy	2021
4.	R. M. Ohol and Dr. B. Vasuki	Design and implementation of a mixer for disparate physical and chemical properties, liquid-liquid mixing and mixing performance evaluation with a UV-Visible spectrophotometer	International Chemical Engineering Conference		NIT Jalandhar	2021
5.	V. K. Viekash, Pramoth Arun, Gaurav Devendra Nagotanekar, Ezhilarasi D	Deep Learning Based Muscle Intent Classification in Continuous Passive Motion Machine for Knee Osteoarthritis Rehabilitation	International IEEE conference-IEEEMASC ON 2021			
6.	C. Sanjay, K. Srinivasan	Analysis of the Zhang Neural Network and its Application for the Control of Nonlinear Dynamical Systems	3rd IFAC conference on Modelling, Identification and Control of Nonlinear Systems	366-371	Tokyo, Japan	2021
7.	Rashmi Annamma George, R	Modelling of Electrocardiogram Using	2021 Seventh International	01-Ap		2021

	Periyasamy	Autoregressive Moving Average Model and Linear Predictive Coefficient A Comparative Study	conference on Bio Signals, Images, and Instrumentation (ICBSII)	r		
8.	B Sangeetha, R Periyasamy	Performance Metrics Analysis of Adaptive threshold Empirical Mode Decomposition Denoising method for suppression of noise in Lung sounds	2021 Seventh International conference on Bio Signals, Images, and Instrumentation (ICBSII)	01-Jun		2021
9.	Joseph Mathew, Sivakumaran N., and Karthick, P.A.	Detection of Seizure Types from the Wavelet Entropy of Scalp EEG	43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)	pp. 2423-2426	Mexico	2021
10	Vinothini. S, Karthick, P.A. and Ramakrishnan, S, , Accepted	Analysis of frequency bands of uterine electromyography signals for the detection of preterm birth	31st Medical Informatics Europe Conference (MIE)	pp. 283-287	Marseille, France	2021
11	J. Shiva, N. Makaram, P. A. Karthick and R. Swaminathan	Emotion Recognition Using Spectral Feature from Facial Electromyography Signals for Human-Machine Interface	31st Medical Informatics Europe conference	pp. 486-487	Marseille, France	2021
12	Joseph Mathew, Sivakumaran N., and Karthick, P.A	Detection of Seizure Types from the Wavelet Energy of Scalp EEG	58th annual Rocky Mountain Bioengineering Symposium (RMBS),	pp. 339-348	Mississippi	2021
13	Arun Ganesh K, Sivalumaran N, Karthick, P.A. and S. Kumaravel. Accepted.	Analysis of Corticomuscular Coherence between Cortical and Lower Limb Muscle Activities	58th annual Rocky Mountain Bioengineering Symposium (RMBS),	pp. 378-384	Mississippi	2021,
14	C. A. D'Souza, J. Shiva, K. Gobinath and P.A. Karthick	Features Selection for Facial Emotion Recognition Improvement from Facial Electromyography	58th annual Rocky Mountain Bioengineering Symposium	pp. 385-390	Mississippi	2021
15	K. Divya Bharathi, P. A. Karthick, S. Ramakrishnan	'Variation of instantaneous spectral centroid across bands of surface electromyographic signals'	Rocky Mountain Bioengineering Symposium	pp. 355-360	Mississippi	2021
16	J. Shiva, K. Gobinath, N.	Recognition of Emotions from Time and Time-	58th Annual Rocky Mountain		Mississippi	2021

	Makaram, P.A. Karthick and R. Swaminathan	Frequency Features Using Facial Electromyography Signals	Bioengineering Symposium, 2021			
2020						
1.	Senthur Raj, Manu Aatitya R P, Jack Samuel S, J Veejay Karthik and D. Ezhilarasi	Ibex: A reconfigurable ground vehicle with adaptive terrain navigation capability	IEEE International Conference on Robotics and Automation (ICRA)		Paris, France	2020
2.	Kondareddy, R., Sivakumaran, N., Radhakrishnan, K. and Nayak, P.K.	Performance analysis of solar tunnel dryer with thermal storage and Photovoltaic system for drying star fruit	IOP Conf. Series: Earth and Environmental Science			2020
3.	Arun ganesh, Dr. N. Sivakumaran and Dr. S. Kumaravel	Lower limb amputees rehabilitation: iot based real time human movement	I-CASIC 2020			2020
4.	K V Kiran Kumar, N siva kumaran, M arulmozhi	optimal pi controller tuning for a multivariable flotation column by hyperbolic tangent weighted error function using GA	I-CASIC 2020			2020
5.	Avanish Kumar Singh, Dr.N.Sivakumaran ,Dr.S.Kumaravel,	MINISUN IDEEA Life Gait For Gait Analysis	I-CASIC 2020			2020
6.	Mohan Appikonda, **Dhanalakshmi K.** and P S V Krishna,	Signal Flow Graph Modeling and Feed-forward Plus Feed-back Control Approach for a High Voltage Gain Dual Input Boost DC-DC Converter	IEEE International conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE 2020), Kochi			Jan. 2020
7.	Senthilkumar K, Avinash Kumar Roy, Srinivasan Kannan	Prediction based event-triggered estimator for networked system	24th International symposium on Mathematical Theory of Networks and Systems MTNS 2020	54(9) 731-736	Cambridge, United Kingdom	2020
8.	Pediredla Vijay Kumar , Challa Akhil, K. Srinivasan	A Novel Monitoring System for Haptic Belt Control to Augment Human Machine Interaction	Advances in Control & Optimization of Dynamical Systems 2020	53(1) 585-590	IIT Madras	2020

9.	Shuprajhaa. T, Haseena B A, Srinivasan Kannan	Design and Development of Modified RTD-A Controller for Unstable Bioreactor,	Advances in Control & Optimization of Dynamical Systems 2020	53 (1) 240-245	IIT Madras	2020
10	P. Chandraseka r, K. Srinivasan	Soft sensing based Online measurement of Backlash in CNC Servo systems	International Conference on Instrumentatio n and Control Engineering (ICECON- 2019)	212-217	NIT-Trichy	2020
11	V Arun Thomas, K. Srinivasan, Thulasi M Santhi	Design and real- time implementation of microcontroller based enhanced digital PID control for lead acid battery charger	International Conference on Instrumentatio n and Control Engineering (ICECON- 2019)	157-162	NIT-Trichy	2020
12	MS Ganeshmurthy, R Periyasamy	Design of a Standardised Semi-Automated Sensory Device for Two Point Discrimination testing in the foot sole	2020 Sixth International Conference on Bio Signals, Images, and Instrumentation (ICBSII)	01-Jun		2020
13	K Vignesh Kumar, R Periyasamy	Development of a non-invasive non-contact optical device for estimating TcB in Neonates	2020 Sixth International Conference on Bio Signals, Images, and Instrumentation (ICBSII)	01-May		2020
14	J. Shiva, C. Sanjay, N. Makaram, P A Karthick and R. Swaminathan	Analysis of surface electromyography signals in fatigue conditions under dynamic contractions using time difference of muscle activations	IEEE Signal Processing in Medicine and Biology Symposium,		Philadelphia, Pennsylvania,	2020
15	Divya Bharathi K, Karthick P.A., Ramakrishnan S	'Geometric Features based Muscle Fatigue Analysis using Low Frequency Band in Surface Electromyographic signals	Asia-Pacific Signal and Information Processing Association		Auckland, New Zealand	2020
2019						
1.	**Ramakalyan Ayyagari**	A Fresh Approach to Teaching State-Space Methods in an Undergraduate Course	12thIFAC Sym. on Adv.in Control Edn. (IFAC-ACE 2019), Philadelphia, July 7 –9, 2019	52 (9)	pp. 97 – 102	July 2019
2.	Lakshmi	Instrumentation Network	Presented at the			Dec

	Prasanna,M., Shiladitya B., P.V.R.R.Bhogendra Rao, V.S.N.Murthy,A., and **Ramakalyan Ayyagari**	for Assessment of Impact on Operator due to Weapon Firing – An Approach Paper	International Conf. on Instrumentation & Control Engg. (ICECON 2019), NIT Tiruchirappalli			2019
3.	V.S.N.Murthy,A., P.V.R.R.Bhogendra Rao, Chandrakanth V., **Ramakalyan Ayyagari**	Detection and Tracking of Targets using Deep Learning Techniques	Presented at the International Conf. on Instrumentation & Control Engg. (ICECON 2019), NIT Tiruchirappalli			Dec 2019
4.	N. Sivakumaran, P.A. Karthick, Raji Sundararajan	Analysis of Epileptic seizures using Electroencephalography Signals and High-Resolution Time-Frequency Based Features	Proc of ESA, Rochester			2019
5.	C. Sudalaimani, N. Sivakumaran, P. Devanand, S.R. Valsalam	Multi Features and SVM based Seizure Prediction at Different Frequency Bands of EEG Signals	Proc of ESA,Rochester			2019
6.	NB Byju, G.Alexander, N. Sivakumaran, Raji Sundararajan	Automatic Selection of Best Focused Plane from a Stack of Pap Smear Images	Proc of ESA,Rochester			2019
7.	Rajesh Kondareddy, N Sivakumaran, K. Radhakrishnan, Prakash Kumar Nayak	"Experimental investigation and economic evaluation of thermal storage assisted integrated low-cost solar dryer for drying of Khoonphal (Haematocarpus validus)	International Conference on Clean and Renewable Energy			2019
8.	Mohamed Hussain K, Revathi S, Maheshwari Lakshmanan, Sivakumaran N, Rajesh Kondareddy,	Evolutionary Algorithms based Controller design for cold storage system	International Mechanical Engineering Congress			2019
9.	Revathi S and Sivakumaran N	'Design of solar-powered forced ventilation system and energy-efficient thermal	International Mechanical Engineering Congress			2019

		comfort operation of greenhouse',				
10	Maheswari L, Sivakumaran N,	Differential flatness-based strategy of Photo voltaic/ Battery/ Super capacitor hybrid source for stand-alone system	International Mechanical Engineering Congress			2019
11	Maheswari L, Sivakumaran N,	Analysis of Temperature and improve the ageing of battery by Unique Control Strategy and Dynamic Temperature Dependent Super capacitor Model for Electric Vehicle Application	International Mechanical Engineering Congress			2019
12	Avanish Kumar Singh, K.Arunganesh, Dr.N.Ssiivakumaran, Dr.S.Kumaraval,	Design of Force Plate for Gait Analysis	International Mechanical Engineering Congress			2019
13	Avanish Kumar Singh, Dr.N.Sivakumaran ,Dr.S.Kumaravel,	MINISUN IDEEA Life Gait For Gait Analysis	International Conference on Instrumentation and Control Engineering			2019
14	Dhevendra Alagan P, Sivakumaran N, Sainarayanan G, Rachid J	Trabecular bone texture characterization using regularization Dimension and box-counting dimension	Proceedings of IEEE Region 10 Conference			2019
15	Abhir Raj Metkar, Arunkrishnan N, Pratheesh H, N Sivakumaran	Automatic Control of Two Low Pressure Boilers in Sugar Plant	Indian Control Conference			2019
16	Abhir Raj Metkar, Sankar Subramanian, N Sivakumaran	Power Consumption Monitoring System	National Seminar on Emerging Technologies in Power Sector			2019
17	Nalini D., Apoorva Nandakumar, Amrutha Sampath, **Dhanalakshmi K.**	Fuzzy based active stiffness control of a synergistically compliant variable stiffness shape memory actuator	IEEE 5th International Conference on Convergence of Technology (I2CT 2019), Pune			Mar. 2019
18	Appikonda M Durgakumar,	Control Approach for a High Voltage Gain Dual Input	IEEE 5th International			Mar. 2019

		Boost DC-DC Converter	Conference on Convergence of Technology (I2CT 2019), Pune			
Dhanalakshmi K.						
19	Devashena T. and **Dhanalakshmi K.**	Electro-mechanical characteristics of shape memory spring for simultaneous sensing and actuation	IEEE 5th International Conference on Convergence of Technology (I2CT 2019), Pune			Mar. 2019
20	M Geetha, **K Dhanalakshmi**, S Jayachandran, I.A. Palani and Sathish Kumar	Analysis of actuation characteristics of CuAlNiMn/Polyimide thin film shape memory alloy	Second International Mechanical Engineering Congress (IMEC 2019)		NIT Trichy	29 Nov. – 1 Dec. 2019
21	Thenmozhi G., Banu Sundareswari M. and **Dhanalakshmi K.**	Shape Memory Alloy Actuated Cantilever Structure for Sensing in Intelligent Engineering	Fourth International Conference on ICT for Sustainable Development (ICT4SD 2019)		Goa	5 - 6 July 2019
22	Devashena T. and **Dhanalakshmi K.**	Electro-Thermo-Mechano-Magneto characteristics of shape memory spring actuator/sensor in assistive devices	Fourth International Conference on ICT for Sustainable Development (ICT4SD 2019)		Goa	5 - 6 July 2019
23	Amit Pal, U. P. Kalyan, C. M. Harika and B. Vasuki	Capacitive Sensor for Level Measurement in Hopper/Silos - Experimental Evaluation	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)		202-205	2019
24	V. Sivakami and B. Vasuki	Modified Design and Analysis of Constant Voltage Hot Wire Anemometer	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)		212-216	2019
25	V Arun Thomas, **K. Srinivasan**	Design and implementation of enhanced PID controller in embedded platform for real-time	2nd International Conference on Power and Embedded Drive		40-45	August 21-23 2019

		applications	Control ICPEDC-2019, SSN College of Engineering, Chennai (IEEE Sponsored)			
26	V Arun Thomas, **K. Srinivasan**, Thulasi M Santhi	Design and real-time implementation of microcontroller based enhanced digital PID control for lead acid battery charge	International Conference on Instrumentation and Control Engineering (ICECON-2019), NIT-Trichy	--	157-162	December, 2019
27	P. Chandrasekar, **K. Srinivasan**	Soft sensing based Online measurement of Backlash in CNC Servo systems	International Conference on Instrumentation and Control Engineering (ICECON-2019), NIT-Trichy	--	212-217	December, 2019
28	Himadri Poddar, D. Ezhilarasi	Trajectory Planning and Obstacle Avoidance for cascaded PD controlled Quadrotor	Proceeding of ICECON 2019, NIT Tiruchirappalli, India			Dec 2019
29	S. Arutselvi, D. Ezhilarasi, Galla Divyanshi, Anuradha Nayak, TSV Krishna Sai	Meandered Broadband Vibration Energy Harvester	Proceeding of ICECON 2019, NIT Tiruchirappalli, India			Dec 2019
30	Anjali S Nair, Ezhilarasi D	Performance analysis of Super Twisting Sliding Mode Controller in Lower Extremity Exoskeleton	proceedings of IEEE ICESIP 2019, IIITD&M Kancheepuram, Chennai			July 2019
31	Rahul Atul Bhope, **V. Sridevi**, Machireddy RamasubbaReddy, Kurupath Radhakrishnan, Kannan Srinivasan, Chaturbhuj Rathore, S Dinesh Nayak	Patient Independent Neuro-Fuzzy System to detect the Electrical onset of Seizure	ICECON 2019			2019
32	B Sangeetha, **R Periyasamy**	Relative performance of LMS and NLMS filter for Noise Cancellation in	ICECON 2019			Dec 2019

		Wheeze sound				
33	M Brindha, **R Periyasamy**	Determination of relative Oxy and DeOxyhemoglobin concentration changes in normal and diabetic without neuropathic foot using Multispectral Near-Infrared System	ICECON 2019			Dec 2019
34	RashmiAnnamma George, **R Periyasamy**	Time Series Modelling Of A White Noise Signal–A Comparitive Study	ICECON 2019			Dec 2019
35	VK Kanamail, **R Periyasamy**	A Study on Development of a Non Invasive Optical based Instrument to estimate the Bilirubin Concentration in the Blood Serum	2019 TEQIP III Sponsored International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW), IEEE explorer		72-76	2019
36	Deepak Rana, Geetha Chakaravarthi	Passive Wireless RFID sensor for detection of mango ripeness	International Conference on Instrumentation and Control Engineering (ICECON-2019), NIT-Trichy			Dec 2019
37	Rinu Preethi B, Deepak Rana, Jeyashree M, Geetha Chakaravarthi	Evaluation of chipless RFID sensor for wireless metal crack detection and characterization	NDE 2019, (ISNT) Conference and Exhibition on Non-Destructive Evaluation, Bangalore, India			Dec 2019
38	Deepak Rana, Geetha Chakaravarthi	Experimental assessment of an RFID based wireless sensor for surface crack detection and characterization on metal	NDE 2019, (ISNT) Conference and Exhibition on Non-Destructive Evaluation, Bangalore, India			Dec 2019
39	**Geetha Chakaravarthi**, Krishna Prasath, Jebby Philip, Jayaganthan R., Velmurugan R., Kavitha	A passive UHF RFID tag for wireless fracture toughness measurement on metals	IEEE proceedings (Paper accepted)			2019

	Arunachalam					
40	**Geetha Chakaravarthi**, Ashwin Kumar Narasimhan, M.S. Ramachandra Rao, Kavitha Arunachalam	Influence of Gold Nano Particles on RF tissue heating	URSI proceedings-URSI Asia Pacific Radio Science Conference 2019, New Delhi, India, 09 - 15 March 2019			2019
41	**P. A. Karthick**, Kai Rui Wan, R. Yuvaraj, Angela AQ See, Nicolas Kon Kam King, and Justin Dauwels	Detection of Subthalamic Nucleus using Time-Frequency Features of Microelectrode recordings and Random Forest Classifier	41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society EMBC		4164-4167	2019
42	N. Sivakumaran, Raji Sundarajan and P.A. Karthick	Analysis of Epileptic seizures using Electroencephalography signals and High-resolution time-frequency based features	Annual Meeting of the Electrostatics Society of America (ESA),		USA.	2019
43	Edwards Jero, P. A. Karthick, and S. Ramakrishnan	Surface EMG Based Fatigue Index Estimation for Biceps Brachii Muscle with Polynomial Wigner-Ville Marginal Spectrum	55th annual Rocky Mountain Bioengineering Symposium (RMBS),		USA	2019
	2018					
1.	Appikonda M Durgakumar, **Dhanalakshmi K.**	Small-signal modelling and control of a high voltage gain dual input boost DC-DC converter	8th IEEE India International Conference on Power Electronics IICPE 2018		MNIT Jaipur	13 -15 Dec. 2018
2.	Bhagoji Bapurao Sul, **Dhanalakshmi K.**	Self-sensing characteristics and analysis of the stiffness of the SMA spring actuator	8th IEEE India International Conference on Power Electronics IICPE 2018		MNIT Jaipur	13 -15 Dec. 2018
3.	Vetriselvi V., Geetha M. and **Dhanalakshmi K.**	Design and development of electro mechanical bistable functions using shape memory alloy	8th IEEE India International Conference on Power Electronics IICPE 2018		MNIT Jaipur	13 -15 Dec. 2018
4.	Bhagoji Bapurao Sul, Chinari Subhechha Subudhi **Dhanalakshmi K.**	Neural Network based Displacement Modeling of Shape Memory Alloy Spring Actuator	17th IEEE Conference on Sensors SENSORS 2018		Aerocity, New Delhi	28 – 31 Oct. 2018

5.	Devashena T. and **Dhanalakshmi K.**	Electromagnetic Characteristics of Shape Memory Spring	1st International Conference and 8th National Conference on Processing and Characterization of Materials (ICPCM/ NCPCM 2018)		NIT Rour kela	6 - 8 Dec. 2018
6.	Nalini D., **Dhanalakshmi K.**	Bidirectional Smart Linear Actuator with Synergistic Bias	16th International Conference on New Actuators (ACTUATOR 2018)	51 0 – 51 3	Brem en, Germ any	25-27 Jun. 2018
7.	Geetha Muthuveeran, Vetriselvi Velusamy, **Dhanalakshmi K.**	Electro-mechanical Logic Gates Using Shape Memory Alloy Actuator	16th International Conference on New Actuators (ACTUATOR 2018)	51 8 – 52 1	Brem en, Germ any	25-27 Jun. 2018
8.	Amit Pal, Nikhil Jonnavithula, **B. Vasuki**	A Novel Oscillator Based Signal Conditioning Circuit for Online Measurement of Capacitive Sensors	2018 International Conference on Inventive Research in Computing Applications (ICIRCA)		421-424	2018
9.	Manoranjan Das, V. Sivakami, Amit Pal, **B. Vasuki**	Analog-digital conditioning circuit for RTD temperature measurement	15th IEEE India Council International Conference (INDICON)		1-5	2018
10	Prashant D.Sarawade and **Srinivasan K**	Thermocouple linearization using data driven approach	4th National Conference on Recent Trends in Instrumentation and Control (RTIC – 2018)	--	--	March 2018
11	Ajil Roy, **K. Srinivasan**	Effective method of drowning detection based on the review of conventional drowning detection methods	Second international conference on Advancements in Automation, Robotics & sensing (ICAARS- 2018), PSG College of Technology, Coimbatore	--	--	2018
12	S. Vasanthakumar, **K. Srinivasan**	Design and development of ORGCC control strategy for trajectory tracking of UAV	Second international conference on	--	--	2018

			Advancements in Automation, Robotics & sensing (ICAARS- 2018), PSG College of Technology, Coimbatore			
13	Ajil Roy, **K. Srinivasan**	A novel drowning detection method for safety of swimmers	20th National Power Systems Conference- NPSC 2018, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli (IEEE Sponsored)		--	2018
14	Chinari Subhechha Subudhi, D Ezhilarasi	Modeling and Trajectory Tracking with Cascaded PD Controller for Quadrotor',	Procedia Computer Science (Elsevier), Vol 133, 2018, PP 952-959, July, 2018			2018
15	N P Guhan Seshadri , **R Periyasamy**	Multispectral NIRS system design to analyze hemoglobin concentration on plantar foot surface	ICBEST 2018, springer			Dec 2018
16	Navya Thomas, Hari S , **R Periyasamy**	A simple robust image processing algorithm for analysis of static footpressure intensity image to detect foot risk areas in diabetic patients	ICBEST 2018, springer			Dec 2018
17	Resham Raj Shivwanshi, NP Guhan Seshadri, R Periyasamy	A Review of Present and Futuristic Development of Near Infrared Spectroscopy System in the Assessment of Diabetic Foot Risk	2018 Fourth International Conference on Biosignals, Images and Instrumentation (ICBSII) -IEEE proceedings		206-212	2018
18	Deepak Rana, Geetha Chakaravarthi	Passive wireless RFID sensor for surface crack monitoring	NDE 2018, (ISNT) Conference and Exhibition on Non-Destructive Evaluation, Mumbai, India			Dec 2018
19	Geetha Chakaravarthi,	Inspection of mechanical characterization of metallic	NDE 2018, (ISNT) Conference and			Dec 2018

	Krishna Prasath, Jebby Philip, Jayaganthan R., Velmurugan R., Kavitha Arunachalam	materials using passive wireless RFID sensor	Exhibition on Non-Destructive Evaluation, Mumbai, India			
			2017			
1.	Bhagoji Bapurao Sul, **Dhanalakshmi K**.	Sigmoid-based Force Modeling and Shape Recovery Characteristics of SMA Spring Actuator	14th International IEEE India Conference (INDICON 2017)	–	IIT Roorkee	15-17 Dec. 2017
2.	Josephine Selvarani Ruth D., **Dhanalakshmi K.**	Can shape memory alloy's nonlinearity be obscured?	8th International Conference on Smart Materials, Structures & Systems (ISSS 2017)	68	IISc Bangalore	5-7 Jul. 2017
3.	Nalini D., **Dhanalakshmi K.**	Characteristics of an SMA based variable stiffness linear actuator	8th International Conference on Smart Materials, Structures & Systems (ISSS 2017)	79	IISc Bangalore	5-7 Jul. 2017
4.	Siddharth Bardiya, **B. Vasuki**	Performance analysis of capacitance-type liquid level measurement at inclined positions	International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICICT)		1736-1739	2017
5.	Siddharth Bardiya, **B. Vasuki**	CCII Based Frequency-Level Characteristics of a Capacitance-Type Liquid Level Sensor	International Journal of Industrial Electronics and Electrical Engineering (IJIEEE)			2017
6.	Veerasingam Sridevi ,MachireddyRama subbaReddy , **Kannan Srinivasan**, Karupath	Study of significance of spectral and wavelet energy measures to detect the electrical onset of seizure	Proceedings of the International Conference on Inventive Computing and Informatics (ICICI 2017)IEEE Xplore		--	2017

	Radhakrishnan, S. Dinesh Nayak					
7.	Bhabani Sankar Padhy and **D. Ezhilarasi**	Damage Detection In Non-Uniform Cantilever Beam Having Two Different Types Of Crack Using Strain Energy Analysis,	International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST-2017), NITT, India,			2017
8.	Rajkumar K, Narayanan S and Sivakumaran N	"Design of Centralized Controller based on Inverted Decoupling structure for Non-Square systems with delay	International Conference on Trends in Industrial Measurements and Automation (TIMA 2017).			2017
9.	Ramanuja Vinayak J and Narayanan S	"Decoupling by RRDP and TDP concepts",	International Conference on Trends in Industrial Measurements and Automation (TIMA 2017).			2017
10	Rajkumar K, Narayanan S and Sivakumaran N	"Control system design for process with recycle"	IEEE International Conference on Information Communication Instrumentation and Control (ICICIC-2017).			2017
11	Ramanuja Vinayak J and Narayanan S,	"Nonlinear PI with state feedback control for Activated Sludge Process",	IEEE International Conference on Information Communication Instrumentation and Control (ICICIC-2017).			2017
12	**Veerasingam Sridevi ,** Machireddy RamasubbaReddy , Kannan Srinivasan , Karupath Radhakrishnan, S. Dinesh Nayak	Study of significance of spectral and wavelet energy measures to detect the electrical onset of seizure	Proceedings of the International Conference on Inventive Computing and Informatics (ICICI 2017)IEEE Xplore Compliant - Part Number: CFP17L34-ART, ISBN: 978-1-5386-			2017

			4031-9			
13	Akash Chandra, NP Seshadri, **R Periyasamy**	Skin Reflectometry Technique for Measurement of Bilirubin Concentration to Detect Jaundice	Proceedings of the 2017 International Conference on Biomedical Engineering and Bioinformatics-ACM proceedings		22-26	2017
14	Geetha Chakaravarthi, Krishna Prasath, Jebby Philip, Jayaganthan R., Velmurugan R., Kavitha Arunachalam	Passive Wireless RFID Sensors for Structural Health Monitoring	NDE 2017, (ISNT) Conference and Exhibition on Non-Destructive Evaluation, Chennai, India			Dec 2017
15	Krishna Prasath, Geetha Chakaravarthi, Jebby Philip, Jayaganthan R., Velmurugan R., Kavitha Arunachalam	Evaluation of passive RFID based sensor for wireless strain measurement ", NDE , Conference and Exhibition on Non- Destructive Evaluation	NDE 2017, (ISNT) Conference and Exhibition on Non-Destructive Evaluation, Chennai, India			Dec 2017
16	Geetha Chakaravarthi, Kavitha Arunachalam	A pilot study on preclinical assessment of cavity backed microwave hyperthermia applicator on volunteers	9th Biennial Conference on Hyperthermia, Ahmedabad			Feb 2017
2016						
1.	Akila R, G. Uma, **M. Umapathy**,	Sensitivity Enhancement of Resonant Sensor using Output Feedback Control"	3rd International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (EEECOS),			2016.
2.	Akila R, G. Uma, K. Suresh, S.S.Choi, **M. Umapathy**	"Design of an electronic oscillator for resonant pressure sensor with non-collocated sensor and actuator",	SPIE Active and Passive Smart Structures and Integrated Systems Conference held at Las Vegas,U.S.A.,			2016
3.	Ambili, T.A., Ramakalyan Ayyagari	Ambili, T.A., Ramakalyan Ayyagari, "Polynomial Modeling and Parameter	In Proc. Fourth International Conference on			2016

		Estimation of Class B Power Amplifiers,"	Advances in Control & Optimization of Dynamical Systems, NIT Tiruchirappalli, India, 2016			
4.	Hituraj Sahu, Ramakalyan Ayyagari	Hituraj Sahu, Ramakalyan Ayyagari, "Interval Fuzzy Type-II Controller for the Level Control of a Three Tank System,	In Proc. Fourth International Conference on Advances in Control & Optimization of Dynamical Systems, NIT Tiruchirappalli, India, 2016			2016.
5.	Nalini D., Josephine Selvarani Ruth D., Dhanalakshmi K	An investigation on the stiffness variation in a synergistically configured SMA actuator	13thInternational IEEE India Conference INDICON 201616-18IISc Bangalore			Dec 2016
6.	Nalini D., Josephine Selvarani Ruth D., Dhanalakshmi K	Design of a Variable Stiffness Actuator using Shape Memory Alloy Wire	7th IEEE Power India International Conference PIICON 2016, Rajasthan			Nov 2016
7.	Akhil Challa,Pediredla Vijay Kumar,Voona Kushal,Dhanalakshmi K,DJosephine S Ruth	A Variable Stiffness Actuator using SMA	1stInternational Conference on Power Electronics, Intelligent Control and Energy Systems, DTU Delhi			July 2016
8.	Karthic R, Avinash Kumar Roy, **K. Srinivasan**	Neural Network based Multi-Model approach for Modeling of real time pH Neutralization Process	National Conference on Recent Trends in instrumentation and Control (RTIC), MIT, Chennai, 2016	--	--	2016
9.	S.M.A.K. Azad , **K. Srinivasan**	'Implementation of Open Communication Protocol through Wireless Medium for Process Automation.'	International Conference on Internet of Things and Applications, IOTA-2016, Maharastra Institute of Technology, Pune, 22nd to 24th		--	2016

			January 2016 (IEEE Sponsored)			
10	N. Sampath, D. Ezhilarasi	"Analysis of Cantilevered Piezoelectric Harvester with Different Proof Mass Geometry for Low Frequency Vibrations",	International Conference on Smart Engineering Materials [ICSEM-2016], 20th to 22nd October 2016, Bangalore, India.			2016
11	N. Sampath, D. Ezhilarasi	"Analysis of Cross Shaped Cantilever With C Shaped Proof Mass for Vibration Energy Harvesting"	International Conference on Smart Engineering Materials [ICSEM-2016], 20th to 22nd October 2016, Bangalore, India.			2016
12	Bhabani Sankar Padhy , D. Ezhilarasi	Detection and Stiffness Analysis of Inclined Height Crack in Cantilever Beam using Strain Energy Analysis",	Proceedings of the International Conference on Advanced in Dynamics, Vibration and Control, ICADVC-201 6, February 25-27, NIT Durgapur, India			2016
13	Bhabani Sankar Padhy , D. Ezhilarasi	"Detection of Inclined Edge Crack in Cantilever Beam using Modal Analysis",	Proceedings of the International Conference on Materials, Design and Manufacturing Process, ICMDM '16, February 17-19, 2016, Anna University (CEG), Chennai, INDIA 76.			2016
14	Karthic R, Avinash Kumar Roy, **K. Srinivasan**	Neural Network based Multi-Model approach for Modeling of real time pH Neutralization Process'	National Conference on Recent Trends in instrumentation and Control (RTIC), MIT, Chennai, 2016			2016

15	S.M.A.K. Azad and **K. Srinivasan**	'Implementation of Open Communication Protocol through Wireless Medium for Process Automation.'	International Conference on Internet of Things and Applications, IOTA-2016, Maharastra Institute of Technology, Pune, 22nd to 24th January 2016.			2016
16	Ramanuja Vinayak J and S.Narayanan	A study on centralized control scheme for a class of process applications",	ETAE2016, 27-30 December, IIT, Kharagpur			2016
17	Devi C. Arati and S.Narayanan	Centralized controller design using state space concept",	6th IFAC symposium on structure and control, Istanbul, Turkey, 2016			2016
18	Devi C. Arati, S.Narayanan and N Sivakumaran	," Decoupling of linear multivariable system using PD output feedback,"	Indian control Conference (ICC2016),4-6 Jan. 2016.			2016
19	**R Periyasamy,** Sneh Anand	A study on non-invasive blood glucose estimation—An approach using capacitance measurement technique	2016 International Conference on Signal Processing, Communication, Power and Embedded System (SCOPES)-IEEE proceedings		847-850	2016
2015						
1.	B. Sreram, Furio Buonopane, Seshadhri Srinivasan, B. Subathra, **R. Ayyagari**	B. Sreram, Furio Buonopane, Seshadhri Srinivasan, B. Subathra, **R. Ayyagari**, "Verification of Design Contracts for Cyber-Physical System Design Using Evolutionary Optimization,"	In Proc. of IEEE Int. Conf. on Circuit, Power, and Computing Technologies (2015 ICCPCT), Nagercoil, Tamilnadu, March 19-20, 2015			2015.
2.	Shaik Ismail, A. Pashilkar, **R. Ayyagari**	Shaik Ismail, A. Pashilkar, **R. Ayyagari**, "Phase Compensation & Anti-windup Design for Neural-aided Sliding Mode Fault-tolerant Autoland	In Proc. of IEEE International Conference on Cognitive Computing and Information			2015.

		Controller,"	Processing (2015 CCIP), Noida India, March 3-5, 2015			
3.	C. Sahu, Radhakrishnan T K and Sivakumaran N	Real time closed loop data based estimation and explicit model based control of an air conditioning system implemented in hardware in loop scheme	2015 International Conference on Robotics, Automation, Control and Embedded Systems (RACE)		1-7	2015
4.	D. Josephine Selvarani Ruth, **K. Dhanalakshmi** an d S. Sunjai Nakshatharan	Intelligent driving assistance system using shape memory alloy as variable impedance actuator	Proceedings of the 22ndInternational Symposium on Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring SPIE - 15, San Diego, California			March 2015.
5.	S. Krishna Chaitanya and **K. Dhanalakshmi**.	Design and Investigation of a Linear Smart Actuator	Proceedings of the 22nd International Symposium on Smart Structures and Materials & Nondestructive Evaluation and Health Monitoring SPIE - 15, San Diego, California, 8–12 March 2015			2015
6.	S.M.A.K. Azad, **K. Srinivasan**	'Delay Analysis of Control Net and Device Net in Distributed Control System.'	International Conference on Communication, Control, Instrumentation & Computational Technologies, IC3ICT-2015, Bangalore,	--	--	Dec 2015
7.	P. Satya Ravi Teja , V. Kushal , A. SaiSrikar , **K. Srinivasan**	Photosensitive security system for theft detection and control using GSM technology	INTERNATIONAL CONFERENCE ON Signal Processing And Communication		--	2-3 Jan 2015.

			Engineering Systems (SPACES), Guntur (IEEE Sponsored)			
8.	Bhabani Sankar Padhy , Laji C A, D. Ezhilarasi,	Detection Of Longitudinal Cracks In Beam Structures Using Electromechanical Impedance And Frequency Analysis",	ISSS National Conference on MEMS Smart Materials, Structures and Systems, September 23-25, 2015, CUSAT, Kochi, India			2015
9.	Minu A Pillai, Ezhilarasi D,	Improved Acoustic Energy Harvester using Tapered neck Helmholts Resonator and Piezoelectric Cantilever undergoing concurrent bending and twisting",	Proceedings of 12th International Conference on Vibration Problems (ICOVP 2015), Dec 14-17, 2015, IIT Guwahati, India			2015
10	M. Ganesan, D. Ezhilarasi	"Design of Nonlinear Model reference Adaptive Controller for Automatically Driven Indian High speed Trains",	Proceeding of 3rd International Conference of Transportation research Group of India (CTRG 2015), 17-20 Dec 2015, Kolkata, India.			2015
11	S.M.A.K. Azad and **K. Srinivasan**,	'Delay Analysis of Control Net and Device Net in Distributed Control System.'	International Conference on Communication, Control, Instrumentation & Computational Technologies, IC3ICT- 2015, R.L. Jalappa Institute of Technology, Bangalore, 17th to 19th December 2015.			2015
12	Devi Arati, S Narayanan and N	Complete decoupling of multivariable systems by	ICSTM, 06-08 May 2015			2015

		means of dynamic state feedback				
13	Devi C. Arati and S.Narayanan	Dynamic decoupling design for a class of linear multivariable system,"	IEEE International Conference on Computer Communication and Control (IC4-2015), 10-12 Sep. 2015			2015
14	Geetha Chakaravarthi, Kavitha Arunachalam	Specific Absorption Rate Measurement of External Heating Antennas Using Infrared Thermography	QIRT Asia conference, Chennai			2015