## List of Journal Publications from the Department 2015-2022

S.no	Authors Names	Title of Paper	Name of the	Volume	Page	Year
			Journal		nos	
		2022	ni ni	00	0055	0000
1.	Gilbert Chandra D., Vinoth B., Srinivasulu Reddy U., Uma G., <b>Umapathy M</b>	Recurrent Neural Network based Soft Sensor for flow estimation in Liquid Rocket Engine Injector calibration	Flow Measurement and Instrumentation	83	0955- 5986	2022
2.	Arikapalli V.S.N.M.;Bhowmick S.;Rao P.V.R.R.B.;Ayyagari R.	Investigative design of missile longitudinal dynamics using LQR-LQG controller in presence of measurement noise and inaccurate model	Sadhana - Academy Proceedings in Engineering Sciences	47		2022
3.	Then Mozhi G., Dhanalakshmi Kaliaperumal, Banu Sundareswari M., S B Choi	Duo features of Shape Memory Wire for Resonant Force Sensing	Smart Materials and Structures	July 2022. 31 (9) July 2022		2022
4.	Josephine Selvarani Ruth D., Sohn, Dhanalakshm i Kaliaperumal, S B Choi	Control Aspects of Shape Memory Alloys in Robotics Applications: A Review over the Last Decade	Sensors	22(13), 4860 June 2022		2022
5.	Then Mozhi G., Dhanalakshmi Kaliaperumal, Banu Sundareswari M.	Design aspects of shape memory wire-based resonant force measurement system	Measurement	198, June 2022. 111313		2022
6.	Geetha M., Dhanalakshmi K. V Vetriselvi	A shape memory alloy bimorph-actuated switch for antenna reconfiguration	Journal of Materials Science: Materials in Electronics	29 Jan 2022 33 4426- 4437		2022
7.	B B Sul, Dhanalakshmi K.	Machine learning-based self-sensing of the stiffness of shape memory alloy coil actuator	Soft Computing	9 Mar. 2022 26 3743- 3755		2022
8.	K Nimmi, B Janet, A Kalai Selvan, N Sivakumaran	Pre-trained ensemble model for identification of emotion during COVID-19 based on emergency response support system dataset	Applied Soft Computing	122	1088 42	2022
9.	R. M. Ohol and B. Vasuki	Design and implementation of a mixer for different physical and chemical properties liquid-liquid	Materials Today Proceedings	57	1677- 1681	2022

10	R. M. Ohol and B.	mixing and mixing performance evaluation with a UV-Visible spectrophotometer Design and implementation	Materials Today	58	823-	2022
	Vasuki	of combined liquid pump and active–passive mixer for a drug delivery system utilizing two 1-DOF piezoelectric actuated cantilever beams	Proceedings		829	
11	R. M. Ohol and B. Vasuki	Macroscopic mixer for disparate property liquid-liquid mixing in aqueous sanitizer preparation	Chemical Papers	76	701- 714	2022
12	Ezhilarasi	A state-of-the-art survey of model order reduction techniques for large-scale coupled dynamical systems	International Journal of Dynamics and Control			2022
13	Prabakar V, Srinivasan K.	Design and Development of Smart Wireless Sensor Network Based DAS for Aero Gas Turbine Engines	International Journal on Engineering Science and Technology			2022
14	Avinash Kumar Roy and K. Srinivasan	Event based optimal filter for a networked system with multiplicative and auto/cross correlated process and measurement noise	International Journal of Adaptive control and signal processing	(Accept ed)	13	2022
15	Setti Suresh, Geetha Chakaravarthi	RFID technology and its diverse applications: A brief exposition with a proposed Machine Learning approach	Measurement	195	31 May 2022, 1111	2022
16	M Roshni, G Pugazhenthi, R Periyasamy, D Vasanth	Synthesis of ceramic tubular membrane from low-cost clay precursors for blood purification application as substitution to commercial dialysis membrane	Journal of Chemical Technology & Biotechnol ogy	-	-	2022
17	Shib Banarjee, Divya B, PA.Karthick, and	Influence of Viscoelasticity on Dynamic Fatiguing Behavior of Muscle Using	IEEE Transactions on Instrumentation	Accepted	-	2022

		2021				
1.	Ramya Anandanata rajan, <b>Umapathy</b> <b>Mangalanathan</b> , Uma Gandhi	Performance enhancement and fault identification using Kalman filter in a resistive temperature sensor interface	Measurement,	183	0263- 2241	2021
2.	Kumaravel S.D.;Ayyagari R.	A graph-theoretic approach for optimizing signalized intersections under connected vehicle environment	Sadhana - Academy Proceedings in Engineering Sciences	46		2021
3.	Kumaravel S.D.;Malikopoulos A.;Ayyagari R.	Optimal Coordination of Platoons of Connected and Automated Vehicles at Signal-Free Intersections	IEEE Transactions on Intelligent Vehicles			2021
4.	Arikapalli V.S.N.M.;Bhowmick S.;Rao P.V.R.R.B.;Ayyagari R.	Missile longitudinal dynamics control design using pole placement and LQR methods – A critical analysis	Defense Science Journal,	Volume7 1	699- 708	2021
5.	M Banu Sundareswari, G Then Mozhi, Dhanalaksh mi Kaliaperumal	Angular control of differential shape-memory alloy spring actuator for an under-actuated dynamic system.	Journal of Vibration and Control	Sep. 2021, 0 (0) 1 – 15		2021
6.	•	Small-signal model and control approach for a dual input boost converter with VMC, International.	Journal of Electronics	Sep. 2021, 1 - 24		2021
7.	T. Devashena, Dhanal akshmi Kaliaperumal	Simultaneous measurements for the interlink of electro-thermomechano-electro characteristics in shape memory springs.	ISA Transactions	Jun-21		2021
8.	Josephine Selvarani Ruth D., K Dhanalakshmi, S B Choi	A Sensaptic ADAS Device using Shape Memory Alloy Wires.	Design and Control, Materials	23 June 2021, 14 (13) 3494		2021
9.	Then Mozhi G., Banu Sundareswari M., Dhanalakshmi Kaliaperumal	Fine resolution smart force sensor based on lever arm mechanism using shape memory alloy spring.	International Journal of Circuit Theory and Applications	June 2021 49 (12) 4330 - 4342		2021
10	Nalini D., Dhanalakshmi Kaliaperumal	Active stiffness control of a synergistically operated variable stiffness compliant actuator	Journal of the Brazilian Society of Mechanical Sciences and Engineering	1 February 2021 43(2) 105 (2021)		2021

11	T Devashena, K Dhanalakshmi	Simultaneous Measurements in Shape Memory Alloy Springs to Enable Structural Health Monitoring by Self-Sensing Actuation.	Arabian Journal for Science and Engineering	Jan. 2021 46, 6015– 6025		2021
12	M Banu Sundareswari, G Then Mozhi, Dhanalaksh mi Kaliaperumal	Angular control of differential shape-memory alloy spring actuator for an underactuated dynamic system.	Journal of Vibration and Control	21 Sep. 2021, 0 (0) 1 – 15		2021
13	Mohan Appikonda, Dhanal akshmi Kaliaperumal	Small-signal model and control approach for a dual input boost converter with VMC.	International Journal of Electronics	5 Sep. 2021 109 (6) 1 - 24.		2021
14	Sivakumaran, Murugesan Punniyamoorthy, Tryambak Chatterjee and Monisha Ravi	Improving the Prediction Accuracy of Low Back Pain using Machine Learning through Data Pre- Processing techniques	Int. J. of Medical Engineering and Informatics			2021
15	Joseph Mathew, N Sivakumaran, PA Karthick	Detection of Seizure Types from the Wavelet Energy of Scalp EEG	Biomedical Sciences Instrumentation	57(2)		2021
16	I Camarillo, JS Thulasidas, G Kalavathy, N Sivakumaran, et. al	Male Breast Cancer: Another look.	G Med Sci. 2021.	2(2)	015- 029	2021
17		SVM Classifier for Epileptic Seizure Prediction using Sub-Banding of IEEG Signals	Biomedical Engineering: Applications, Basis and Communications			2021
18	S.Revathi, N.Sivakumaran, T.K. Radhakrishnan	Design of solar-powered forced ventilation system and energy-efficient thermal comfort operation of greenhouse	Materials Today: Proceedings,2021			2021
19	G. Ganapathy; N. Sivakumaran; M. Punniyamoorthy; Tryambak Chatterjee; Monisha Ravi	Improving the prediction accuracy of low back pain using machinelearning through data preprocessing techniques	International Journal of Medical Engineering and Informatics (IJMEI)			2021
20		`Performance evaluation of modified forced convection solar dryer with energy	Journal of Food Processing Engineering	45	e139 74	2021

	et.al.	storage unit for drying of Elephant apple (Dillenia Indica)				
21	R. Kondareddy, N. Sivakumaran, K. Radha Krishnan et.al.	Performance evaluation and economic analysis of modified solar dryer with thermal energy storage for drying of blood fruit (Haematocarpus Validus	Journal of Food Processing and Preservation	46	e156 53	2021
22	Ezhilarasi D, Anjali S Nair	Modeling and Evaluation of Adaptive Super Twisting Sliding Mode Control in Lower Extremity Exoskeleton	International Journal of Precision Engineering and Manufacturing – Green Technology	8	901- 915	2021
23	K.Srinivasa n	Scalable multiple linear model RTDA controller formulation for constrained nonlinear processes	Optimal Control applications and methods			2021
24	K. Senthilkuma r, Avinash Kumar Roy and K. Srinivasan	Event triggered estimator- based controller design for networked control system	ISA Transactions	126	80 - 93	2021
25	S M A K Azad & Srinivasan Kannan	Anomaly Detection in Estimation of Load and Prediction of Load in Networked Control System Using Correlation and Regression Data Analysis	IETE Journal of Research, Taylor and Francis			2021
26	S M A K Azad & Srinivasan Kannan	Bandwidth assessment of scheduled and unscheduled communication in hybrid networked control system	Cyber- Physical Systems, Taylor and Francis			2021
27	Haseena B. A. and Srinivasan K.	Design and development of constrained next generation controller with and without event triggered mechanism for single link robot arm	Automatic Control & Computer Sciences	55	407- 418	2021
28	S.M. Abdul Kalam Azad and K. Srinivasan	Dynamic Network Scheduler for customized Aperiodic communication in Networked Control System	Automatic Control and Computer Sciences	55 (3)	263- 276	2021
29	M Brindha, NP Seshadri, R Periyasamy	Non-invasive assessment of tissue oxygenation parameters in diabetic patients foot sole using near infrared spectroscopy	Journal of Biomedical Spectroscopy and Imaging	10	27-36	2021
30	R Periyasamy,VS	Machine Learning	Journal of Neurol	69	1518-	2021

24	Vibashan,George Tom Varghese, MA Aleem	Techniques for the Diagnosis of Attention- Deficit/Hyperactivity Disorder from Magnetic Resonance Imaging: A Concise Review	India 2021	70	23	2024
31	Navaneethakrishna ,M., PA.Karthick, and S.Ramakrishnan	Analysis of Dynamics of EMG Signal Variations in Fatiguing Contractions of Muscles using Transition Network Approach	IEEE Transactions on Instrumentation and Measurement	70	01- Aug	2021
32	K. Divya Bharathi, P. A. Karthick, S. Ramakrishnan	'Automated muscle fatigue detection using cyclostationarity based geometric features from surface electromyography signals'	Computer Methods in Biomechanics and Biomedical Engineering	25	Jan- 13	2021
33	S. Edward Jero, K. Divya Bharathi, P. A. Karthick, S. Ramakrishnan.	'Muscle Fatigue Analysis in Isometric Contractions using Geometric Features of Surface Electromyography signals'	Biomedical Signal Processing and Control	68	1026 03	2021
34	Vinothini S, Punitha N, Karthick P.A., and Ramakrishnan S,	Automated detection of Preterm Condition using Uterine Electromyography based Topological Features	Biocybernetics and Biomedical Engineering	41	293- 305	2021
35	Divya Bharathi K, Karthick P.A., Ramakrishnan S.,	Variational Mode Decomposition based Differentiation of Fatigue Conditions in Muscles using Surface Electromyography Signals	IET Signal Processing	14	745- 753	2021
		2020				
1.	TN Satish, A Vivek, SN Anagha, ANV Rao, G Uma, <b>M</b> <b>Umapathy</b> , U Chandrasekhar, G Kiran	Novel resistor-capacitor (RC) network-based capacitance signal conditioning circuit for tip clearance measurement on gas turbine engine	Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering	234,2	342- 360	2020
2.	S. Raghavendran, <b>M.</b> <b>Umapathy</b> , G. Uma & L.R. Karlmarx	Piezoelectric energy harvesting from DC-DC converters	Ferroelectrics	558,1	207- 213	2020
3.	V. Raja, M. Umapathy, G. Uma, Praveen kumar B and S. Premkumar	Design, analysis and experimental investigation of a rotational piezoelectric energy harvester with	Journal of Mechanical Science and Technology 34	pp 4475- 4487, 2020		

		storage system	(11)			
4.	Geerthy Thambiraj, G. Uma, Umapathy Mangalanathan, J M Jose, Anand M	Investigation on effect of the womerseley number, ECG and PPG features on cuffless BP monitoring using machine learning	Biomedical signal processing and Control	60, 101942	1-11	2020
5.	Shereen Selvaraj, <b>Uma Gandhi</b> , L. John Berchmans, Umapathy Mangalanathan	Effect of magnetic ion substitution on the structure and temperature-dependent magnetic properties of strontium hexaferrite.	Materials Technology,	DOI: 10.1080/ 1066785 7.2020.17 23832	1-10	2020
6.	Shereen Selvaraj, Uma Gandhi, U. Mehana Usmaniya, L. John Berchmans, Umapathy Mangalanathan	Effect of high energy ball milling on molten salt synthesized barium hexaferrite powder,	IEEE Transactions on Magnetics,	VOL. 56, NO. 5	2100 508	2020
7.	Shereen Selvaraj, Uma Gandhi, Umapathy Mangalanathan, and L. John Berchmans	Enhancement of Saturation Magnetization and Remanence of BaFe12019 Materials Prepared by NaCl-KCl and Hexamine as Flux	IEEE Magnetics Letters	VOL. 11	7500 605	2020
8.	Ramya Anandanatarajan, Umapathy Mangalanathan, <b>Uma Gandhi</b>	Enhanced Microcontroller Interface of resistive sensors through resistance to time converter	IEEE Transactions on Instrumentation and Measurement	VOL. 69, NO. 6	2698- 2706	2020
9.	Srinivasulu Raju, S., M. Umapathy and <b>G. Uma</b>	Design and analysis of high output piezoelectric energy harvester using non- uniform beam	Journal of Mechanics of Advanced Materials and Structures	VOL. 27, NO. 3,	218- 227	2020
10	S.Raghavendran M. Umapathy, G. Uma L.R. Karl Marx	Piezoelectric energy harvesting from DC-DC converters	Ferroelectrics	VOL. 558	207– 213	2020
11	Sharmila Devi, K, & Ramakalyan Ayyagari	A Decentralized Signal Control for Non-lane-based Heterogeneous Traffic under V2I Communication	IEEE Tr. Intelligent Transportation Systems	21(4)	1741 - 1750	2020
12	Dhevendra Alagan P, Sivakumaran N, Sainarayanan G, Rachid J	Multifractal-based lacunarity analysis of trabecular bone in radiography	Computers in Biology and Medicine	116	1-7	2020
13	L Maheswari, N	A unique control strategy to	Journal of		1-13	2020

	Sivakumaran, KR Balasubramanian,	improve the life cycle of the battery and to reduce the	Thermal Analysis and Calorimetry			
	G Saravana Ilango	thermal runaway for electric vehicle applications	dia diorimetry			
14	L Maheswari, N Sivakumaran	An isolated single-switch high step-up DC/DC converter with three-winding transformer for solar photovoltaic applications	Electrical Engineering		1-10	2020
15	S Sankaranarayanan, N Sivakumaran, TK Radhakrishnan, G Swaminathan	Dynamic soft sensor based parameters and demand curve estimation for Water Distribution System: Theoretical and Experimental cross validation.	Control Engineering Practice 102,2020			2020
16	Dhevendra Alagan, P., Sivakumaran, N. and Sainarayanan G.	Retinal vessel segmentation using multifractal characterization	Applied Soft Computing (Elsevier)	94	1064 39	2020
17	T. Devashena and K. Dhanalakshmi	Electromagnetic Characteristics of Shape Memory Spring	Materials Science Forum	ISSN: 1662- 9752, Vol. 978, 421- 427, Jan. 2020		2020
18	D. Josephine Selvarani Ruth, Dhanalakshmi K.	Role of Shape Memory Alloy Wires as a Sensaptic HMI Device	IEEE Sensors Journal	20(2)	6422 - 6431	2020
19	Mohan Appikonda and Dhanalakshmi K.	Signal flow graph model and control of dual input boost converter with voltage multiplier cell	International Journal of Electronics and Communications	Aug./Oct. 2020 125, 153345 1-13	SCIE 2.853	2020
20	BanuSundareswari M., Then Mozhi G. and Dhanalakshmi K.	Design of Genetic Algorithm based PID controller for a joule heated shape memory spring driven ball and beam system	International Journal of Mechatronics and Automation	Dec. 2020 7 (6) 107 - 116	Scopu s SJR 0.137	2020
21	Vasuki	Experimental Evaluation of Liquid Mixing Using Piezo Actuated Pump System  Realization of Constant	Instrum Exp Tech  Exp Tech	63, 758– 766 (2020). https://d oi.org/10. 1134/S00 2044122 0050206 (2020).		

	Pal and B. Vasuki	Voltage Anemometer Using an Alternative Signal Conditioning Circuit		https://d oi.org/10. 1007/s40 799-020- 00379-4		
23	Amit Pal, B. Vasuki	A Concave Electrode Based Capacitive Sensor for Cavitation Monitoring - Experimental Evaluation	IEEE Sensors Journal	20	2094- 2105	2020
24	V.Sivakami, B.Vasuki	Experimental Investigation and Uncertainty Analysis of Constant Voltage Anemometer using Low- cost Sensor	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	Published online		2020
25	Prashant D. Sarawade	An Included Angle Based Multilinear Model Technique for Thermocouple Linearization.	IEEE Transactions on Instrumentati on and Measurement	69 (7)	4412- 4424	2020
26	Avinash Kumar Roy, <b>Srinivasan</b> <b>Kannan</b>	State estimation for a networked control system with packet delay, packet dropouts and uncertain observation in S-E and C-A channel	Optimal control applications and methods (Publisher: Willey online library)	DOI: 10.1002/ oca.2614	onlin e	2020
27	S. M. A. K. Azad, K. Srinivasan	Analysis of time delays in scheduled and unscheduled communication used in process automation	Automatika (Publisher: KOREMA, UNSKA)	61(1)	109- 116	2020
28	Anjali S. Nair, D Ezhilarasi	Performance Analysis of Super Twisting Sliding Mode Controller by ADAMS-MATLAB Co- simulation in Lower Extremity Exoskeleton	International Journal of Precision Engineering and Manufacturing- Green Technology	7	743– 754	2020
29	Minu A. Pillai, D. D. Ebenezer, and <b>Ezhilarasi</b> <b>Deenadayalan</b>	Transfer matrix analysis of a duct with gradually varying arbitrary crosssectional area	The Journal of the Acoustical Society of America	146	4435- 4445	2020
30	NeelamshobhaNiral a <b>R.Periyasamy</b> , Awanish Kumar	Study of Skin flow motion pattern using photoplethysmogram	International Journal of Advanced Intelligence Paradigms	16(3-4)	1-6	Jan 2020
31	Ashwin Kumar Narasimhan, <b>Geetha</b> <b>Chakaravarthi</b> , M.	Study of absorption of radio frequency field by gold nanoparticles and nanoclusters in biological	Electromagnetic Biology and Medicine			2020

	S. Ramachandra Rao & Kavitha	medium				
	Arunachalam					
32	Makaram N, Karthick P.A., Gopinath V, Swaminathan R.	Electromyography-Based Muscle Fatigue Analysis Using Binary and Weighted Visibility Graph Features.	Fluctuation and Noise Letters	20	2150 016	2020
33		Automated detection of subthalamic nucleus in deep brain stimulation surgery for Parkinson's disease using microelectrode recordings and wavelet packet features.	Journal of Neuroscience Methods	343	1088 26	2020
34	Hideaki Tanaka, Hui Ming Khoo, Jean Gotman	Could we have missed out the seizure onset: A study based on intracranial EEG	Clinical Neurophysiology	131 (1)	114- 126	2020
35	Shufali Ashraf Wani, Md. Manzar Nezami, Shakeb A. Khan, and S. Sohail	A Capacitive Sensor for Detecting Insulation Degradation by Sensing 2- FAL in Transformer Oil	IEEE Transactions on Dielectric and Electrical Insulation	Vol. 27(6), pp.2179- 2187.202		2020
36	Uzma Salmaz, Tarikul Islam, and S. Sohail	A novel capacitive temperature sensor based on polydimethylsiloxane (PDMS)	IEEE Transactions on Instrumentation and Measurement	vol. 69, no. 10, pp. 7887- 7894, Oct. 2020.		2020
37	MD. Manzar Nezami, Shufali Ashraf Wani, Shakeb A. Khan, Neeraj Khera, and S. Sohail	,A Comb Type Capacitive 2- FAL Sensor for Transformer Oil with Improved Sensitivity	IEEE Transactions on Instrumentation and Measurement	vol. 69 (7), pp. 4524-32, 2020.		2020
		2019				
1.	Raghavendran Srinivasan, Mangal anathan <b>Umapathy</b> , <b>Uma G</b> , Karl Marx	Bridgeless active rectifier for piezoelectric energy harvesting",	IET Circuits, Devices & Systems	Volume number 13, Issue 7,	1078- 1085	2019
2.	Raghavendran Srini vasan, Umapathy Mangalanathan, Uma Gandhi	Dual input buck-boost converter for hybrid Piezoelectric Energy Harvester- Supercapacitor sources",	AEU - International Journal of Electronics and Communications	Volume 111	1-13 1529 26	2019
3.	Geerthy	Noninvasivecuffless blood	Institute of	Vol		2019

	Thambiraj, UmaGandhi, Viji Devanand and Umapathy Mangalanathan	pressure estimation using pulse transit time, Womersley number, and photoplethysmogram intensity ratio	Physics and Engineering in Medicine Physiological Measurement	40, No. 7		
4.	S. Revathi, N. Sivakumaran, D. Ramajayam, M.S. Saraswathi, S. Backiyarani, S.Uma	Growth estimation during hardening phase of tissue cultured banana plantlets under greenhouse environment using Bootstrapped Artificial Neural Network	Journal of Environmental Biology	(4)	719- 724	2019
5.	S Sankaranarayanan, N Sivakumaran, TK Radhakrishnan, G Swaminathan	Water hammer vibrations in pressurized water distribution system: Conceptual development of dynamic model and validation	Asia-Pacific Journal of Chemical Engineering	14	1-15	2019
6.	S Sankaranarayanan, G Swaminathan, TK Radhakrishnan, N Sivakumaran	Missing data estimation and IoT based flyby monitoring of a water distribution system: Conceptual and experimental validation	International Journal of Communication Systems		1-10	2019
7.	C Sudalaimani, N Sivakumaran, Thomas T Elizabeth, Valsalam S Rominus	Automated detection of the preseizure state in EEG signal using neural networks	Biocybernetics and Biomedical Engineering	39	160- 175	2019
8.	Hemalatha Karnan, N Sivakumaran, Rajajeyakumar Manivel	An Efficient Cardiac Arrhythmia Onset Detection Technique Using a Novel Feature Rank Score Algorithm	Journal of medical systems	43	1-8	2019
9.	Dhevendra Alagan Palanivel, <b>Sivakumaran N</b> , Sainarayanan Gopalakrishnan,	Multifractals based multimodal 3D image registration	Biomedical Signal Processing and Control,	47	126- 136	2019
10		Intelligent tuning of PID controller to balance the shape memory wire actuated bidirectional ball and beam system	Fizicheskaya Mezomekhanika	22 (6)	107 – 116	2019
11	Geetha M. and Dhanalakshmi K.	Structural design and realization of electromechanical logic elements using shape	Fizicheskaya Mezomekhanika	22 (5)	92 – 101	2019

		memory alloy actuator				
12	Mohan Appikonda and Dhanalakshmi K.	Modeling and Control of a high voltage gain dual input boost DC - DC converter with voltage multiplier	IET Circuits, Devices and Systems	13 (8)	1267 - 1276	2019
13	Bhagoji Bapurao Sul and Dhanalakshmi K.	Modified sigmoid based model and experimental analysis of SMA spring as variable stiffness actuator	Smart Structures and Systems	24 (3)	361 – 377	2019
14	Nalini D., D. Josephine Selvarani Ruth and Dhanalakshmi K.	Investigation of the synergistic compliant actuation of parallel-type variable stiffness shape memory alloy actuator	Journal of Intelligent Material Systems and Structures	30 (12)	1772 - 1788	2019
15	Nalini D and <b>Dhanalakshmi K</b>	Synergistically configured shape memory alloy for variable stiffness translational actuation	Journal of Intelligent Material Systems and Structures	Vol. 30(6)	844– 854	2019
10	B. Vasuki	Performance Enhancement of Capacitance-Type Level Measurement System using CCII-Based Interface	IETE Technical Review		1-12	2019
17	Sridevi V, Ramasubba Reddy M, Srinivasan K, Radhakrishnan K Rathore C, Nayak DS	Improved Patient- Independent System for Detection of Electrical Onset of Seizures	Journal of Clinical Neurophysiology( SCI)	36(1)	14-24	2019
18	Avinash Kumar Roy, <b>Srinivasan</b> <b>Kannan</b>	Development of event- triggered-based minimum variance recursive estimator for the NLNS using multi-model approach	IET Signal Processing (Publisher: IET digital library)	13 (9)	766- 777	2019
19	P. D. Sarawade	An Included Angle Based Multilinear Model Technique for Thermocouple Linearization	IEEE Transactions on Instrumentation and Measurement	DOI: 10.1109/ TIM.2019 .2947951	On Line	2019
20	Ganesan Muniandi, Ezhilarasi Deenadayalan	Composite model reference adaptive sliding mode controller for automatic train operation	IET Control Theory and Applications	13(15)	2425- 2435	2019
21	Ganesan Muniandi, Ezhilarasi Deenadayalan	Train distance and speed estimation using multi sensor data fusion	IET Radar, Sonar & Navigation	13(4)	664 - 671	2019
22	NS Haider, BK	Respiratory Sound Based	Journal of medical	43	255	2019

23	Singh, R Periyasamy, AK Behera  Justin Joseph, R Periyasamy	Classification of Chronic Obstructive Pulmonary Disease: a Risk Stratification Approach in Machine Learning Paradigm Nonlinear sharpening of MR images using a locally adaptive sharpness gain and a noise reduction	Pattern Analysis and Applications	22	273- 283	2019
24	NeelamshobhaNiral a, <b>R.Periyasamy</b> , Bikesh KumarSingh, AwanishKumar	parameter  Detection of type-2 diabetes using characteristics of toe photoplethysmogram by applying support vector machine	Biocybernetics and Biomedical Engineering	39	38-51	2019
		2018				
1.	S. Raghavendran, <b>M. Umapathy</b> , L.R. Karlmarx	Super capacitor charging from piezoelectric energy harvesters using multi-input buck-boost converter	IET Circuits Devices & Systems	Vol. 12 Issue. 6	746- 752	2018
2.	T.N. Satish, A.N.V. Rao, A.S. Nambiar, G. Uma M. Umapathy, U. Chandrashekhar, V.U. Petley	Investigation into the Development and Testing of a Simplex Capacitance Sensor for Rotor Tip Clearance Measurement in Turbo Machinery	Experimental Techniques	Vol 42, Issue 6, pp	575– 592,	2018
3.	M. S. Manjunath, N. Nagarjuna, <b>G Uma,</b> M. Umapathy, M. M. Nayak, K. Rajanna	Design, fabrication and testing of reduced graphene oxide strain gauge based pressure sensor with increased sensitivity	Microsystems Technologies	Vol 24, Issue 7	2969 - 2981	2018
4.	R Usharani, <b>G Uma,</b> M Umapathy, Seung-Bok Choi	A Novel Piezoelectric Energy Harvester Using Multi-Stepped Beam with Rectangular Cavities	Applied Sciences	8( 11):2091	1-19	2018
5.	V. ParthaSarathi, <b>G. Uma,</b> M. Umapathy	Realization of Fractional order Inductive Transducer	IEEE Sensors Journal	vol . 18, issue no. 21,	8803- 8811	2018
6.	G. PalaniKumar, G. Uma, M.Umapathy and J. Arunshankar	Higher order sliding mode controller for urea-SCR system	Turkish Journal of Electrical Engineering and computer sciences	vol. 26, issue. 3,	1505- 1514	2018
7.	Pandiyan, P., <b>G. Uma,</b>	Design and simulation of electro-thermal compliant	COMPEL: International	37(2), pp. 868-889	868- 889	2018

	M. Umapathy	MEMS logic gates	journal for computation and mathematics in electrical and electronic engineering			
8.	Pandiyan, P., <b>G. Uma</b> , and M. Umapathy	Design and Simulation of MEMS Electrothermal Compliant Actuator-Based Analog-to-Digital Converter	Arabian Journal for Science and Engineering	Vol 44	1-9	2018
9.	V. Parthasarathi, <b>G. Uma</b> M. Umapathy	Analysis of Fractional order Inductive Transducers	The European Physical Journal Special Topics	Vol 18, Issue no 21	8803- 8811.	2018
10	G. PalaniKumar, <b>G. Uma,</b> M. Umapathy L.R. Karlmarx	Electrical conductivity based quality measurement of diesel exhaust fluid	Journal of Analytical Chemistry	Vol 73, Issue no. 11		2018
11	V. Parthasarathi, <b>G. Uma</b> M. Umapathy	Design and Analysis of Fractional order Seismic Transducer for Displacement and Acceleration Measurements	Journal of Sound and Vibration	Vol.419	123- 139	2018
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