

You Choose, We Do It

St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)

St. Joseph's Group of Institutions Jeppiaar Educational Trust OMR, Chennai - 119.



Perspective Plan and Deployment Documents

S.NO	PARTICULARS	PAGE NO
1	Perspective Plan	2
2	Research Publications	4
3	Research Projects Received	32

PERSPECTIVE PLAN

Following is the perspective plan of the college

- 1. Enhancing the quality of Teaching Learning Process
- 2. Promotion of research among staff and student
- 3. Talent acquisition and retention
- 4. Quality Assurance Measures
- 5. Improving Entrepreneurship Development and Industry Institute Interaction
- 6. Placement and Training Activities

The details are as follows:

1. Enhancing the quality of Teaching – Learning

- ✓ To provide more student-centric teaching learning methodology
- ✓ Up-gradation of skills of staff through, FDP, QIP, web learning through NPTEL, etc
- ✓ Creating infrastructure to use modern teaching aid
- ✓ Industry interface through summer internship
- ✓ Undertaking field project with participation from the industry

2. Promotion of Research among staff and students

- ✓ Providing platform to the faculty and students for R & D activities
- ✓ Encouraging faculty members to undertake research work and research publication in a reputed journal, conferences, etc
- ✓ Encouraging & motivating students to attend conferences, workshops, undertake the project of research orientation, publish their research/review papers, etc
- ✓ Inviting experts and eminent person on research committee for evaluating progress of research activities is in various departments.
- ✓ Taking efforts to undertake sponsored research project

3. Talent Acquisition and Retention

- ✓ Providing a transparent recruitment and selection process.
- ✓ Providing career growth prospects
- ✓ Having a transparent promotion policy
- ✓ Effective Welfare measures for teaching and non teaching staff

4. Quality Assurance Measures

- ✓ Accreditation of all the courses
- ✓ Participating in NIRF
- ✓ Quality improvement through Internal Quality Assurance Cell (IQAC)

5. Improving Entrepreneurship Development Industry-Institution Interaction

- ✓ Providing an eco system for startups
- ✓ Organizing entrepreneurship awareness programmes for students
- ✓ Providing platform to the students to undertake internship in related industries
- ✓ Providing skill based training to the student.
- ✓ Signing MoU with organization/corporate/industry to exchange the knowledge and expertise in related program of engineering

6. Placement and Training Activities

- ✓ To enable students to be industry ready
- √ To achieve maximum placements
- ✓ To develop the overall personality of the students

LIST OF JOURNAL PUBLICATION 2020-21

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
	Bhandary A., Prabhu				
	G.A., Rajinikanth V.,				
	Thanaraj K.P.,				
Deep-learning	Satapathy S.C.,				
framework to detect	Robbins D.E., Shasky				
lung abnormality – A	C., Zhang YD.,	Electronics and			
study with chest X-Ray	Tavares J.M.R.S., Raja	Instrumentation	Pattern Recognition		
and lung CT scan images	N.S.M.	Engineering	Letters	2020	1678655
Computer-Aided Gastrointestinal Diseases Analysis from					
Wireless Capsule	Khan M.A., Kadry S.,				
Endoscopy: A	Alhaisoni M., Nam Y.,	Electronics and			
Framework of Best	Zhang Y., Rajinikanth	Instrumentation			
Features Selection	V., Sarfraz M.S.	Engineering	IEEE Access	2020	21693536
Social Group					
Optimization–Assisted					
Kapur's Entropy and					
Morphological					
Segmentation for					
Automated Detection of					
COVID-19 Infection from	Dey N., Rajinikanth V.,	Electronics and			
Computed Tomography	Fong S.J., Kaiser M.S.,	Instrumentation	Cognitive		
Images	Mahmud M.	Engineering	Computation	2020	18669956

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Optimization and techno-economic analysis of biodiesel production from					
Calophyllum inophyllum					
oil using heterogeneous	Naveenkumar R.,		Bioresource		
nanocatalyst	Baskar G.	Biotechnology	Technology	2020	9608524
A reliable framework for accurate brain image examination and treatment planning based on early diagnosis support for clinicians	Fernandes S.L., Tanik U.J., Rajinikanth V., Karthik K.A.	Electronics and Instrumentation Engineering	Neural Computing and Applications	2020	9410643
Weighted Mostar indices as measures of molecular peripheral shapes with applications to graphene, graphyne and graphdiyne nanoribbons	Arockiaraj M., Clement J., Tratnik N., Mushtaq S., Balasubramanian K.	Science and Humanities	SAR and QSAR in Environmental Research	2020	1062936X
Green synthesized rGO- AgNP hybrid nanocomposite - An effective antibacterial adsorbent for photocatalytic removal of DB-14 dye from aqueous solution	Karthik C., Swathi N., Caroline D.G.	Biotechnology	Journal of Environmental Chemical Engineering	2020	22133437

Schizophrenia detection using MultivariateEmpirical Mode Decomposition and entropy measures from multichannel EEG signal A customized VGG19 network with concatenation of deep and handcrafted features for brain tumor detection Rajinikanth V., Raj A.N.J., Thanaraj K.P., Naik G.R. Electronics and Instrumentation Engineering Electronics and Electronics and Instrumentation Engineering Electronics and Engineering Electronics and Electronics and Instrumentation Engineering Electronics and Instrumentation Engineering Electronics and Engineering Electronics and Instrumentation Engineering Electronics and						
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	Allocation in Cloud	M.	Computer Science	Computers	2020	2181266

Deep neural network assisted diagnosis of time-frequency transformed electromyograms	Bakiya A., Kamalanand K., Rajinikanth V., Nayak R.S., Kadry S.	Electronics and Instrumentation Engineering	Multimedia Tools and Applications	2020	13807501
Multi-Objective Task Scheduling Using Hybrid Whale Genetic Optimization Algorithm in Heterogeneous Computing Environment	Natesan G., Chokkalingam A.	Computer Science and Engineering	Wireless Personal Communications	2020	9296212
Design of compact patch antenna with enhanced gain and bandwidth for 5G mm-wave applications	Ramanujam P., Arumugam C., Venkatesan R., Ponnusamy M.	Electronics and Communication	IET Microwaves, Antennas and Propagation	2020	17518725
Design of miniaturized super wideband printed monopole antenna operating from 0.7 to 18.5 GHz	Ramanujam P., Ramesh Venkatesan P.G., Arumugam C., Ponnusamy M.	Electronics and Communication	AEU - International Journal of Electronics and Communications	2020	14348411
Performance and emission characteristics of biodiesel derived from coconut acid oil	Rajasekar R., Ganesan S., Marynishanthi W.	Electrical and Electronnics	International Journal of Ambient Energy	2020	1430750
Electromagnetic interference suppression in stacked patch antenna using complementary split ring resonator	Ramanujam P., Venkatesan P.G.R., Arumugam C.	Electronics and Communication	Microwave and Optical Technology Letters	2020	8952477

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Assessment of the emission characteristics of the diesel engine with nano-particle in neem biodiesel	Rathinam S., Sajin J.B., Subbiah G., Rajeev A., Prakash S., Christopherselvam D.	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
Genetic spider monkey- based routing protocol to increase the lifetime of the network and energy management in WSN	Soundaram J., Arumugam C.	Computer science and Engineering	International Journal of Communication Systems	2020	10745351
Design of Compact Highpass Filter for 5G mm-wave Applications Using Complementary Split Ring Resonator	Ramanujam P., Ramesh Venkatesan P.G., Arumugam C., Ponusamy M.	Electronics and Communication	Frequenz	2020	161136
A soft-computing based hybrid tool to extract the tumour section from brain MRI	Suresh K., Sakthi U.	Information Technology	Multimedia Tools and Applications	2020	13807501
Bioethanol production from Codium tomentosum residue	Gengiah K., Moses G.L.P., Baskar G.	Biotechnology	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
Human Tongue Thermography Could Be a Prognostic Tool for Prescreening the Type II Diabetes Mellitus	Thirunavukkarasu U., Umapathy S., Krishnan P.T., Janardanan K.	Electronics and Instrumentation Engineering	Evidence-based Complementary and Alternative Medicine	2020	1741427X

Extraction of Buildings in					
Urban Area for Surface Area Assessment from Satellite Imagery based on Morphological Building Index using SVM Classifier	Avudaiammal R., Elaveni P., Selvan S., Rajangam V.	Electronics and Communication	Journal of the Indian Society of Remote Sensing	2020	0255660X
A FTIR approach of green synthesized silver nanoparticles by Ocimum sanctum and Ocimum gratissimum on mung bean seeds	Karthik C., Suresh S., Sneha Mirulalini G., Kavitha S.	Biotechnology	Inorganic and Nano- Metal Chemistry	2020	24701556
An efficient hybrid fuzzy― clustering driven 3D― modeling of magnetic resonance imagery for enhanced brain tumor diagnosis	Kanniappan S., Samiayya D., Durai Raj Vincent P.M., Srinivasan K., Jayakody D.N.K., Reina D.G., Inoue A.	Information Technology	Electronics (Switzerland)	2020	20799292
Development of eco- friendly concrete produced with Rice Husk Ash (RHA) based geopolymer	Annadurai S., Rathinam K., Kanagarajan V.	Civil	Advances in Concrete Construction	2020	22875301
Synthesis, characterization and anticancer activity of β-cyclodextrin-Asparaginase nanobiocomposite on prostate and lymphoma cancer cells	Baskar G., Supria Sree N.	Biotechnology	Journal of Drug Delivery Science and Technology	2020	17732247

Physical strength and Opto-electrical conductivity of L-Serine Phosphate single crystal for structural and	Rajesh K., Krishnan P., Mani A., Anandan K.,				
photonics devices fabrication	Gayathri K., Devendran P.	Science and Humanities	Materials Research Innovations	2020	14328917
Super-resolution mapping of hyperspectral satellite images using hybrid genetic algorithm	Amala Dhason H.G.C., Muthaia I., Sakthivel S.P., Shanmugam S.	Information Technology	IET Image Processing	2020	17519659
Genetic algorithm based key sequence generation for cipher system	Sudeepa K.B., Aithal G., Rajinikanth V., Satapathy S.C.	Electronics and Instrumentation Engineering	Pattern Recognition Letters	2020	1678655
Predictive Modelling and Optimization of Performance and Emissions of Acetylene Fuelled CI Engine Using ANN and RSM	Thodda G., Madhavan V.R., Thangavelu L.	Mechanical Engineering	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2020	15567036
Algal biomass as a source for novel oral nano-antimicrobial agent	Vikneshan M., Saravanakumar R., Mangaiyarkarasi R., Rajeshkumar S., Samuel S.R., Suganya M., Baskar G.	Biotechnology	Saudi Journal of Biological Sciences	2020	1319562X
Design of a compact printed lowpass filtering antenna with wideband harmonic suppression for automotive communication	Ramanujam P., Venkatesan P G R., Arumugam C., Ponnusamy M.	Electronics and Communication	International Journal of RF and Microwave Computer-Aided Engineering	2020	10964290

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Experimental investigation and ANN modelling of the effects of diesel/gasoline premixing in a waste cooking oil-fuelled HCCI- DI engine	Leo G.M.L., Sekar S., Arivazhagan S.	Electronics and Communication	Journal of Thermal Analysis and Calorimetry	2020	13886150
Enhanced malic acid production using Aspergillus niger coupled with in situ product recovery	lyyappan J., Baskar G., Bharathiraja B., Gopinath M.	Biotechnology	Bioresource Technology	2020	9608524
Modeling and performance investigation of 4 × 20 Gbps underwater optical wireless communication link incorporating space division multiplexing of Hermite Gaussian modes	Malathy S., Singh M., Malhotra J., Vasudevan B., Dhasarathan V.	Electronics and Communication	Optical and Quantum Electronics	2020	3068919
Design of Compact UWB Filter Using Parallel- coupled Line and Circular Open-circuited Stubs	Ramanujam P., Arumugam C., Venkatesan P G R., Ponnusamy M.	Electronics and Communication	IETE Journal of Research	2020	3772063
An SETM Algorithm for Combating SSDF Attack in Cognitive Radio Networks	Tephillah S., Manickam J.M.L.	Electronics and Communication	Wireless Communications and Mobile Computing	2020	15308669

Tensile and wear behaviour of friction stir welded AA5052 and AA6101-T6 aluminium alloys: Effect of welding parameters	Kasirajan G., Rengarajan S., Ashok Kumar R., Raghav G.R., Rao V.S., Nagarajan K.J.	Mechanical Engineering	Metallurgical Research and Technology	2020	22713646
Performance enhancement of a domestic refrigerator with nanoparticle enhanced PCM over the condenser side	Kumar M.P., Elakkiyadasan R., Sathishkumar N., Prabhu A.G., Balasubramanian T.	Mechanical Engineering	FME Transactions	2020	14512092
MPPT oscillations minimization in PV system by controlling non-linear dynamics in SEPIC DC-DC converter	Vaigundamoorthi M., Ramesh R., Prabhu V.V., Kumar K.A.	Electrical and Electronnics	International Journal of Electrical and Computer Engineering	2020	20888708
Impulse noise reduction using hybrid neuro-fuzzy filter with improved firefly algorithm from X-ray bio-images	Pugalenthi R., Oliver A.S., Anuradha M.	Computer Science and Engineering	International Journal of Imaging Systems and Technology	2020	8999457
Time domain analysis on myoelectric activity of masseter muscles in resting and chewing conditions	Arockia Sukanya S., Kamalanand K., Thayumanavan B., Emmanuel C., Rajnikanth V.	Electronics and Instrumentation Engineering	Network Modeling Analysis in Health Informatics and Bioinformatics	2020	21926662
Optimal design for SCAP/battery power management applied in electric vehicle (EV) applications: a KHOâ€"RDF technique	Ponnupandian A., Veeramani V.P.	Electrical and Electronnics	Soft Computing	2020	14327643

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Abrasive water jet piercing of inclined holes on ceramic coated nickel superalloy: A preliminary study	Yuvaraj N., Arunkumar N., Nivetha M.S., Lina Esther A.	Mechanical Engineering	Manufacturing Letters	2020	22138463
Anatomical region segmentation method from dermoscopic images of pigmented skin lesions	Chakkaravarthy A.P., Chandrasekar A.	Computer Science and Engineering	International Journal of Imaging Systems and Technology	2020	8999457
Comparative Analysis for the Detection of Marine Vessels from Satellite Images Using FCM and Marker-Controlled Watershed Segmentation Algorithm	Heltin Genitha C., Sowmya M., Sri T.	Information Technology	Journal of the Indian Society of Remote Sensing	2020	0255660X
Automated damage detection and characterization of polymer composite images using Tsallisparticle swarm optimization-based multilevel threshold and multifractals	Agastinose Ronickom J.F., Retnakaran Sobhana A., Robert F., Nadaradjane S.M.R., Chelliah S.K.	Electronics and Instrumentation Engineering	Polymer Composites	2020	2728397

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Novel report on structural, optical and electrical investigation into brucinium 4-methyl-3-nitrobenzoate 0.5 hydrate single crystal: a promising material for high-power laser, ultrahigh cooling, sensor and detector applications	Kandhan S., Krishnan P., Vansu E., Sahoo T., Jagan R., Srinivasan S., Aravindhan S., Gunasekaran S., Anbalagan G.	Science and Humanities	Journal of Materials Science	2020	222461
Anticancer activity of gelatin-asparaginase nanobiocomposite against cervical and brain cancer cell lines	Baskar G., Supria Sree N.	Biotechnology	Journal of Drug Delivery Science and Technology	2020	17732247
Convolutional neural network in the detection of lung carcinoma using transfer learning approach	Lakshmi D., Thanaraj K.P., Arunmozhi M.	Electronics and Communication	International Journal of Imaging Systems and Technology	2020	8999457
Synthesis, structural, tunable-luminescence spectra and quenching behaviour of Sm3+ions activated Ba1-xBixTiO3 phosphors for LED applications	Arulmozhi A., Vishista K., Subalakshmi G.	Electronics and Communication	Optik	2020	304026

Application of proteometric approach for identification of functional mutant sites to improve the binding affinity of anticancer biologic trastuzumab with its antigen human epidermal growth factor receptor 2	Balakrishnan N., Gurunathan B., Surapaneni K.M.	Biotechnology	Journal of Molecular Recognition	2020	9523499
LP based solution for security constrained optimal power flow including power routers	Harini D., Ramesh Babu M., Venkatesh Kumar C.	Electrical and Electronnics	WSEAS Transactions on Power Systems	2020	17905060
Partial array grammars and partial array- rewriting P systems	Sasikala K., Kalyani T., Thomas D.G.	Science and Humanities	Mathematics in Engineering, Science and Aerospace	2020	20413165
Comparative studies and analysis on gasification of coconut shells and corn cobs in a perforated fixed bed downdraft reactor by admitting air through equally spaced conduits	Arun K., Venkata Ramanan M., Mohanasutan S.	Mechanical Engineering	Biomass Conversion and Biorefinery	2020	21906815
A new three-phase multilevel DC-link inverter topology with reduced switch count for photovoltaic applications	Anbarasan P., Krishnakumar V., Ramkumar S., Venkatesan S.	Electrical and Electronnics	Circuit World	2020	3056120

Energy efficient dynamic clustering routing protocol in underwater wireless sensor networks	Gomathi R.M., Martin Leo Manickam J., Sivasangari A., Ajitha P.	Electronics and Communication	International Journal of Networking and Virtual Organisations	2020	14709503
Energy and exergy analysis of greenhouse drying of ivy gourd and Turkey berry	Subramani S., Dana S.S., Natesan V.T., Mary L.L.G.	Mechanical Engineering	Thermal Science	2020	3549836
Video content analysis and retrieval system using video storytelling and indexing techniques	Jacob J., Elayidom M.S., Devassia V.P.	Electrical and Electronnics	International Journal of Electrical and Computer Engineering	2020	20888708
Improved iot-based control system combined with an advanced control management serverbased system	Jain S., Chinnaiah B., Rajakumar M.P., Fantin Irudaya Raj E., Jotiram G.A.	Computer science and Engineering	Journal of Green Engineering	2020	19044720
Ontology-based crop production using natural language processing with IoT applications using deep learning approach	Deepa R., Priyadharshini K.	Information Technology	Journal of Green Engineering	2020	19044720
Cassia javanica biodiesel blends with sio2 nanoparticles for ic engine applications	Karthikeyan M., Nambirajan S., Baskar G., Renganathan S.	Biotechnology	Indian Journal of Chemical Technology	2020	0971457X

Antidiabetic potential of Andrographis echioides Nees. leaf extract on high fat diet-fed C57BL/6J diabetic mice	Sindhu S., Sivakumar K., Karthikeyan V., Jacob J.P.	Biotechnology	Pakistan Journal of Pharmaceutical Sciences	2020	1011601X
Data logger for monitoring and control of energy consumption in residential buildings using programmable logic controller	Pradeep J., Balasubramanian V., Shanthi P., Anbazhagan A., Senthil Nayagam V.	Information Technology	Journal of Green Engineering	2020	19044720
PV module integrated dual boost three-port DC-DC converter-fed T-type multilevel inverter for shunt active power filters	Vinoth K., Ramesh Babu M.	Electrical and Electronnics	Journal of Testing and Evaluation	2020	903973
Implementation of automated and decentralized pollution monitoring system with lo-ra wan	Anna Devi E., Ahila Devi E.	Instrumentation and Control	International Journal of Control and Automation	2020	20054297
Phytosynthesis and Characterization of Reduced Graphene Oxide using Aqueous Extract of Zingiber officinale and Brassica nigra	Karthik C., Swathi N., Devanand Venkatasubbu G.	Biotechnology	International Journal of Nanoscience	2020	0219581X
Identifying Partitions in Wireless Sensor Network	Anna Devi E., Martin Leo Manickam J.	Electronics and Communication	International Journal of Parallel Programming	2020	8857458

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Analysis of impact of					
emotional awareness on					
job performance of					
employees in the					
hospitals located in			International		
southern districts of	Karthick R.,		Journal of Scientific		
tamilnadu-structural	Manikandan N., Joel	Computer Science	and Technology		
equation model	Jebadurai D.	and Engineering	Research	2020	22778616
equation model	Jesuadiai S.	and Engineering	Research	2020	22770010
Maximizing the quality					
of service in distributed					
multimedia streaming in		_			
heterogeneous wireless	Duraimurugan S.,	Information	Multimedia Tools		
network	Jayarin P.J.	Technology	and Applications	2020	13807501
A novel and an eco-					
friendly approach for					
organic dyes					
degradation using					
Spirulina platensis		Science and			
cultivated water	J S., P S., S S., M C.	Humanities	Catalysis Today	2020	9205861
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ZA-APA with adaptive			International		
zero attractor controller	Radhika S.,		Journal of		
for variable sparsity	Chandrasekar A.,	Computer Science	Electronics and		
environment	Nirmalraj S.	and Engineering	Telecommunications	2020	20818491
Backup node selection					
using particle swarm					
optimisation algorithm			International		
for cut node recovery in	Devi E.A., Manickam	Electronics and	Journal of Business		
wireless sensor network	J.M.L.	Communication	Information Systems	2020	17460972

Experimental					
Investigation of Multi-					
Jet Air Impingement in					
Various Conditions and					
Analysis using					
Desirability Based	Chandramohan P.,				
Response Surface	Murugesan S.N.,	Mechanical	Journal of Applied		
Methodology	Arivazhagan S.	Engineering	Fluid Mechanics	2020	17353572
Stability analysis in					
Banach spaces for a			Advances in		
general additive	Agilan P., Rassias J.M.,	Science and	Mathematics:		
functional equation	Vallinayagam V.	Humanities	Scientific Journal	2020	18578365
Interval oscillation					
criteria for second order					
nonlinear forced					
impulsive differential			Journal of		
equations with damping			Mathematical and		
term under variable		Science and	Computational		
delay	Purushothaman G.	Humanities	Science	2020	19275307
2 × 20 Gbit/s OFDM-					
based FSO transmission					
system for HAP-to-					
ground links					
incorporating mode					
division multiplexing	Praveen M.,				
with enhanced	Vasudevan B., Ransom	Electronics and	Journal of Optical		
detection	R.	Communication	Communications	2020	1734911
Effects of tool pin profile	Ashok Kumar R.,				
on tensile and wear	Muneeswaran R.,				
behaviour of friction stir	Saravana Mohan M.,		Metallurgical		
welded AA6101-T6 and	Rengarajan S., Raghav	Mechanical	Research and		
AA1350 alloys	G.R., Nagarajan K.J.	Engineering	Technology	2020	22713646

Bimagic of graphs			Advances in		
merging from path and		Science and	Mathematics:		
star	Shoba B., Solairaju A.	Humanities	Scientific Journal	2020	18578365
Estimation of shortest path using dynamic programming through neutrosophic environment	Jose Parvin Praveena N., Sahayanatha Stalin N., Rajkumar A.	Science and Humanities	Advances in Mathematics: Scientific Journal	2020	18578365
Bi-magic labeling of graphs related to wheel and cycle	Shoba B., Solairaju A.	Science and Humanities	Advances in Mathematics: Scientific Journal	2020	18578365
Oscillation criteria for second order nonlinear forced impulsive differential equations with damping term under variable delay	Purushothaman G.	Science and Humanities	Advances in Mathematics: Scientific Journal	2020	18578365
Algorithm for constructing deterministic finite automata directly from regular expressions for pattern recognition related problems	Rajakumar M.P., Ramya J., Sonia R., Maheswari B.U.	Computer Science and Engineering	Advances in Mathematics: Scientific Journal	2020	18578365
Hepatotoxic effect of lead and hepatoprotective effect of Hydrilla verticillata on hepatic transcriptional and physiological response in edible fish Labeo rohita	Pandi Prabha S., Rajkumar J., Karthik C.	Biotechnology	Drug and Chemical Toxicology	2020	1480545

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Ashok C., Venkateswaran N.	Electronics and Communication	Progress In Electromagnetics Research C	2020	19378718
Senkumar M.R., Chitra K., Selvakumar C.	Instrumentation and Control	International Journal of Operational Research	2020	17457645
Niruban R., Deepa R., Vignesh G.D.	Electronics and Communication	Journal of Critical Reviews	2020	23945125
Lavanya S.K., Parvathavarthini B.	Computer Science and Engineering	International Journal of Enterprise Network Management	2020	17481252
Jawahar Rani K., Nirmala G.	МВА	International Journal of Advanced Science and Technology	2020	20054238
Ram B.V.K.,	Electrical and	Evolving Systems	2020	18686478
	Senkumar M.R., Chitra K., Selvakumar C. Niruban R., Deepa R., Vignesh G.D. Lavanya S.K., Parvathavarthini B. Jawahar Rani K., Nirmala G.	Senkumar M.R., Chitra K., Selvakumar C. Niruban R., Deepa R., Vignesh G.D. Lavanya S.K., Parvathavarthini B. Communication Electronics and Communication Communication Computer Science and Engineering MBA Ram B.V.K., Electrical and	Ashok C., Venkateswaran N. Electronics and Communication Electromagnetics Research C International Journal of Operational Research Niruban R., Deepa R., Vignesh G.D. Electronics and Communication Electronics and Communication International Reviews International Journal of Critical Reviews International Journal of Enterprise Network Management International Journal of Advanced Science and Technology Ram B.V.K., Electrical and	Ashok C., Venkateswaran N. Electronics and Communication Senkumar M.R., Chitra K., Selvakumar C. Niruban R., Deepa R., Vignesh G.D. Electronics and Control Electronics and Control Journal of Operational Research Journal of Critical Reviews Diurnal of Electronics and Communication International Journal of Enterprise Network Management Journal of Advanced Science and Technology Diurnal of Advanced Science and Technology Electronics and Control Electronics and Control International Journal of Advanced Science and Technology Electronics and Control Diurnal of Critical Reviews Diurnal of Enterprise Network Management Diurnal of Advanced Science and Technology Electronics and Control Electronics and Control Diurnal of Critical Reviews Diurnal of Enterprise Network Management Diurnal of Advanced Science and Technology Electronics and Control Diurnal of Critical Reviews Diurnal of Enterprise Network Management Electronics and Control Electronics and Control Electronics and Control Electronics and Electronics

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Influence of human resource management practices on the organisational commitment with specific reference to selected hotels in Chennai	Dheera V.R., Krishnan J.	МВА	International Journal of Intelligent Enterprise	2020	17453232
Medical data assessment with traditional, machine- learning and deep- learning techniques	Lin H., Satapathy S.C., Rajinikanth V.	Electronics and Instrumentation Engineering	Current Medical Imaging	2020	15734056
Medical image examination using traditional and soft-computing approaches	Rajinikanth V.	Electronics and Instrumentation Engineering	Current Medical Imaging	2020	15734056
Chitin and chitosan- based support materials for enzyme immobilization and biotechnological applications	Verma M.L., Kumar S., Das A., Randhawa J.S., Chamundeeswari M.	Biotechnology	Environmental Chemistry Letters	2020	16103653
Carbohydrate and protein based biopolymeric nanoparticles: Current status and biotechnological applications	Verma M.L., Dhanya B.S., Sukriti, Rani V., Thakur M., Jeslin J., Kushwaha R.	Biotechnology	International Journal of Biological Macromolecules	2020	1418130
Electrodeionization theory, mechanism and environmental applications. A review	Rathi B.S., Kumar P.S.	Chemical Engineering	Environmental Chemistry Letters	2020	16103653

Contemporary approaches towards augmentation of distinctive heterogeneous catalyst for sustainable biodiesel production	Ravi A., Gurunathan B., Rajendiran N., Varjani S., Gnansounou E., Pandey A., You S., Raman J.K., Ramanujam P.	Biotechnology	Environmental Technology and Innovation	2020	23521864
Photodynamic cancer therapy: role of Ag- and Au-based hybrid nano- photosensitizers	Dhanalekshmi K.I., Sangeetha K., Magesan P., Johnson J., Zhang X., Jayamoorthy K.	Science and Humanities	Journal of Biomolecular Structure and Dynamics	2020	7391102
Spectroscopic and third- order nonlinear optical properties of organic single-crystal 2- picolinictrichloroacetate: an overview	Manopradha N., Gowri S., Rama S., Selvaraju K., Kirubavathi K., Vinitha G.	Science and Humanities	Bulletin of Materials Science	2020	2504707
Tinnitus: A tingling mystery to be decrypted	Nersisson R., Sengupta A., Sarkar S., Agrawal S., Singh P., Josephraj A.N., Thanaraj P., Rajinikanth V.	Electronics and Instrumentation Engineering	Open Neuroimaging Journal	2020	18744400
Role of general adversarial networks in mammogram analysis: A review	Gopal A., Gandhimaruthian L., Ali J.	Information Technology	Current Medical Imaging	2020	15734056
A highly accurate and fast identification of forest fire based on supervised multi model image classification algorithm (SMICA)	Southry S.S., Vinayagapriya S., Khan A.A., Srinivasan P.	Electronics and Communication	Journal of Critical Reviews	2020	23945125

Adequate improvement for spatial video scaling for video surveillance	Ayub Khan A., Srinivasan P., Sree Southry S.,	Electronics and	Journal of Critical		
applications	Vinayagapriya S.	Communication	Reviews	2020	23945125
Perceptive data heuristic classification algorithm based brain tumor detection for medical applications	Srinivasan P., Ayub Khan A., Sree Southry S., Vinayagapriya S.	Electronics and Communication	Journal of Critical Reviews	2020	23945125
A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research	Rathi B.S., Kumar P.S., Show PL.	Chemical Engineering	Journal of Hazardous Materials	2021	3043894
Deep transfer learning- based automated detection of COVID-19 from lung CT scan slices	Ahuja S., Panigrahi B.K., Dey N., Rajinikanth V., Gandhi T.K.	Electronics and Instrumentation Engineering	Applied Intelligence	2021	0924669X
IoT enabled cancer prediction system to enhance the authentication and security using cloud computing	Anuradha M., Jayasankar T., Prakash N.B., Sikkandar M.Y., Hemalakshmi G.R., Bharatiraja C., Britto A.S.F.	Computer Science and Engineering	Microprocessors and Microsystems	2021	1419331
Customized VGG19 Architecture for Pneumonia Detection in Chest X-Rays	Dey N., Zhang YD., Rajinikanth V., Pugalenthi R., Raja N.S.M.	Electronics and Instrumentation Engineering	Pattern Recognition Letters	2021	1678655

An effective separation of toxic arsenic from aquatic environment	Rathi B.S., Kumar P.S.,				
using electrochemical	Ponprasath R., Rohan	Chemical	Journal of		
ion exchange process	K., Jahnavi N.	Engineering	Hazardous Materials	2021	3043894
Process optimization, green chemistry balance and technoeconomic analysis of biodiesel					
production from castor					
oil using heterogeneous	Naveenkumar R.,		Bioresource		
nanocatalyst	Baskar G.	Biotechnology	Technology	2021	9608524
Steady State Mean Square Analysis of Standard Maximum Versoria Criterion Based Adaptive Algorithm	Radhika S., Albu F., Chandrasekar A.	Computer Science and Engineering	IEEE Transactions on Circuits and Systems II: Express Briefs	2021	15497747
Evaluation of brain tumor using brain MRI with modified-moth- flame algorithm and Kapur's thresholding: a study	Kadry S., Rajinikanth V., Raja N.S.M., Jude Hemanth D., Hannon N.M.S., Raj A.N.J.	Electronics and Instrumentation Engineering	Evolutionary Intelligence	2021	18645909
Abrasive Water Jet Machining of Al6063/B4C/ZrSiO4 Hybrid Composites: a Study of Machinability and Surface Characterization	Thamizhvalavan P., Yuvaraj N.,	Mechanical			
Analysis	Arivazhagan S.	Engineering	Silicon	2021	1876990X

Computer aided diagnosis of obesity based on thermal imaging using various convolutional neural networks	U S., Palani Thanaraj K., K S.	Electronics and Instrumentation Engineering	Biomedical Signal Processing and Control	2021	17468094
HPWO-LS-based deep learning approach with S-ROA-optimized optic cup segmentation for fundus image classification	Ramya J., Rajakumar M.P., Uma Maheswari B.	Computer Science and Engineering	Neural Computing and Applications	2021	9410643
Nelder Mead-Based Spider Monkey Optimization for Optimal Power and Channel Allocation in MANET	Jothi S., Chandrasekar A.	Computer Science and Engineering	Journal of Circuits, Systems and Computers	2021	2181266
Hybrid firefly with differential evolution algorithm for multi agent system using clustering based personalization	Anuradha M., Ganesan V., Oliver S., Jayasankar T., Gopi R.	Computer Science and Engineering	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
A compact wide- bandwidth Antipodal Vivaldi Antenna array with suppressed mutual coupling for 5G mm- wave applications	Ramanujam P., Ponnusamy M., Ramanujam K.	Electronics and Communication	AEU - International Journal of Electronics and Communications	2021	14348411
Detecting disorders in retinal images using machine learning techniques	Gnanaselvi J.A., Kalavathy G.M.	Computer Science and Engineering	Journal of Ambient Intelligence and Humanized Computing	2021	18685137

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Slum Extraction from					
High Resolution Satellite					
Data using					
Mathematical	Prabhu R.,		International		
Morphology based	Parvathavarthini B.,	Electronics and	Journal of Remote		
approach	Alagu Raja R.A.	Communication	Sensing	2021	1431161
	Tang K.J.W., Ang				
	C.K.E., Constantinides				
Artificial Intelligence and	T., Rajinikanth V.,	Electronics and	Biocybernetics and		
Machine Learning in	Acharya U.R., Cheong	Instrumentation	Biomedical		
Emergency Medicine	K.H.	Engineering	Engineering	2021	2085216
A					
Accurate prediction of					
heart disease based on	Oliver A.S., Ganesan K.,		Journal of Ambient		
bio system using	Yuvaraj S.A.,				
regressive learning based neural network	Jayasankar T., Sikkandar M.Y.,	Computer Science	Intelligence and Humanized		
classifier	Prakash N.B.	Computer Science and Engineering	Computing	2021	18685137
Classifier	PIAKASII IV.D.	and Engineering	Computing	2021	16063137
Synthesis,					
Characterization of Ag-			Journal of Inorganic		
SiO2 Nanocomposite	Karthik C., Caroline		and Organometallic		
and Its Application in	D.G., Dhanam Priya		Polymers and		
Food Packaging	M., Pandi Prabha S.	Biotechnology	Materials	2021	15741443
EDTC Edward DCC					
ERTC: an Enhanced RSSI					
based Tree Climbing mechanism for well-					
			Journal of Ambient		
planned path localization in WSN			Intelligence and		
using the virtual force of	Thilagavathi P.,	Electronics and	Humanized		
Mobile Anchor Node	Manickam J.M.L.	Communication	Computing	2021	18685137
Wobile Alichor Node	IVIAIIICKAIII J.IVI.L.	Communication	Computing	2021	18083137
A modified inductor and					
control models of three					
phase Vienna rectifier			Journal of Ambient		
topology using particle	Brindha R., Christy		Intelligence and		
swarm optimization	A.A., Elanthirayan R.,	Electrical and	Humanized		
algorithm	Krishnamoorthy R.	Electronnics	Computing	2021	18685137

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Assessment of electromyograms using genetic algorithm and artificial neural networks	Ambikapathy B., Kirshnamurthy K., Venkatesan R.	Electronics and Instrumentation Engineering	Evolutionary Intelligence	2021	18645909
Melamine-templated TiO2 nanoparticles as anode with high capacity and cycling stability for lithium-ion batteries	Partheeban T., Kesavan T., Jithin A., Dharaneshwar S., Sasidharan M.	Electronics and Communication	Journal of Solid State Electrochemistry	2021	14328488
Neural network and multi-objective optimization of confined flow characteristics on circular cylinder in standing double vortex region	Senthilkumar R., Vasudevan P., Prabhu S.	Electronics and Communication	Neural Computing and Applications	2021	9410643
Production of biodiesel from pork fat using alumina-doped calcium oxide nanocomposite as heterogeneous catalyst	Cherian E., Yazhini D., Victor M., Baskar G.	Biotechnology	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	2021	15567036
Investigation on influence of blending Jatropha biofuel with diesel to improve fuel quality	Manivannan A., Prabu R., Kumar K.M.	Mechanical Engineering	Australian Journal of Mechanical Engineering	2021	14484846
Artificial learning companionusing machine learning and natural language processing	Pugalenthi R., Prabhu Chakkaravarthy A., Ramya J., Babu S., Rasika Krishnan R.	Computer Science and Engineering	International Journal of Speech Technology	2021	13812416

Realization of novel corona virus kit using silicon based 2D photonic structure via finite difference time domain method	Sethi K.K., Boobhalon V., Sahu S.K., Palai G.		Microsystem Technologies	2021	9467076
Synthesis, spectral, thermal studies and dielectric behavior of functionalized TiO2- loaded diglycidyl epoxy nanocomposite film	Nisha P., Suresh S., Jayamoorthy K., Dhanalekshmi K.I., Ravichandran C.	Science and Humanities	Polymer Bulletin	2021	1700839
Manifold Ambiguity- Free Low Complexity DOA Estimation Method for Unfolded Co-Prime Arrays	Ashok C; Venkateswaran N	Electronics and Communication	IEEE Communications Letters	2021	10897798
Image fusion practice to improve the ischemic-stroke-lesion detection for efficient clinical decision making	Hemanth D.J., Rajinikanth V., Rao V.S., Mishra S., Hannon N.M.S., Vijayarajan R., Arunmozhi S.	Electronics and Instrumentation Engineering	Evolutionary Intelligence	2021	18645909
Energy efficient momento based dynamic scheduling for lifetime maximization in WSN	Brindha G., Ezhilarasi P.	Electronics and Communication	Journal of Ambient Intelligence and Humanized Computing	2021	18685137
Model-predictive control-based hybrid optimized load frequency control of multi-area power systems	Mahendran M.V., Vijayan V.	Electronics and Instrumentation Engineering	IET Generation, Transmission and Distribution	2021	17518687

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Enhanced QoS Through					
Optimized Architecture					
for Video Streaming					
Applications in	Duraimurugan S.,				
Heterogeneous	Avudaiammal R.,	Information	Wireless Personal		
Networks	Vincent P.M.D.R.	Technology	Communications	2021	9296212
Optimization and					
technoeconomic					
analysis of biooil					
extraction from					
Calophyllum inophyllum					
L. seeds by ultrasonic					
assisted solvent oil	Rajendran N.,		Industrial Crops and		
extraction	Gurunathan B., I. A.E.S.	Biotechnology	Products	2021	9266690
Fuzzy Logic-based					
Battery Management					
System for Solar-					
Powered Li-Ion Battery			Journal of Circuits,		
in Electric Vehicle	Raj P.J., Prabhu V.V.,	Electrical and	Systems and		
Applications	Premkumar K.	Electronnics	Computers	2021	2181266
Greener synthesis and					
characterization of					
cadmium-tellurium					
quantum dots using			Indian Journal of		
aqueous extract of	Mahalakhsmi A.,		Biochemistry and		
waste orange peel	Baskar G.	Biotechnology	Biophysics	2021	3011208
Multi-Objective					
Optimization with Fuzzy					
Logic Analysis of			Journal of The		
Confined Flow			Institution of		
Characteristics on	kumar R.S., Prabhu S.,	Electronics and	Engineers (India):		
Circular Cylinder	Vasudevan P.	Communication	Series C	2021	22500545

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Performance of Contaminated Soil	Adlin Doso D. Droothi				
Blended with Sodium	Adlin Rose R., Preethi Jain B., Ramya D., Nilaa	Science and			
Silicate	M.	Humanities	Silicon	2021	1876990X
		Hamanities		2021	1870330X
Influence of near-dry	Kumar N.E.A., Babu		Materials and		
ambiance on WEDM of	A.S., Sathishkumar N.,	Information	Manufacturing		
Monel superalloy	Pradeep Kumar C.	Technology	Processes	2021	10426914
Simultaneous					
Reconfiguration and					
Optimal Capacitor					
Placement Using					
Adaptive Whale					
Optimization Algorithm			Journal of Electrical		
for Radial Distribution	Babu M.R., Kumar C.V.,	Electrical and	Engineering and		
System	Anitha S.	Electronnics	Technology	2021	19750102
Design of low profile co-					
axial fed high gain					
stacked patch antenna					
for Wi-Fi/WLAN/Wi-Max	Pachaiyappan G.,	Electronics and			
applications	Ramanujam P.	Communication	Frequenz	2021	161136
A genetic algorithm					
based approach to					
estimate the volume of					
a drinking water					
reservoir in Chennai city,	Heltin Genitha C.,				
South India, using multi-	Indhumathi M.,	Information	Geocarto		
spectral satellite images	Sanjeevi S.	Technology	International	2021	10106049

Research projects received:

Name of the	Name of the	Department	Year	Amount	Duration	Name of	
Project/	Principal	of Principal	of	Sanctioned	of the	the	Type
Endowments ,	Investigator/Co-	Investigator	Award		project	Funding	(Government/non-
Chairs	investivator					Agency	Government)
						Science &	
						Technology,	
						Government	
Unnat Bharat		Information				of Tamil	
Abhiyan (UBA)	Dr.V.Muthulakshmi	Technology	2018	5,00,000	3 years	Nadu	Government
Skill and							
Personality							
Development							
Programme							
Centre for		Information				AICTE,	
Sc/ST Students	Dr.V.Muthulakshmi	Technology	2018	9,39,000	3 Years	New Delhi	Government
Carbon							
Quantum Dots							
From							
Microalgae for							
Organic Dyes						Department	
Degradation In						of Science	
Industrial						and	
Water – A						Technology,	
Novel						Govt. of	
Approach.	Dr.M.Chamundeeswari	Biotechnology	2019	29,30,600	2 Years	India	Government
Modernization							
of Analytical							
Techniques in						MODROB'S -	
Biotechnology	Dr. G.Kreikil	B' a la alla di	2020	42.00.000	4.7/	AICTE,	
Laboratory.	Dr. C. Karthik	Biotechnology	2020	12,00,000	1 Year	New Delhi	Government
Advanced		Computer				MODROB'S -	
Intelligence Big		Science and				AICTE,	
Data Analytics	Dr. A. Chandrasekar	Engineering	2020	10,45,490	1 Year	New Delhi	Government

Laboratory in Cyber Security.							
Cyber Security.							
Development							
of multi-							
spectral						Science &	
(Termal/Visible)						Engineering	
Imaginh system		- · · · ·				Research	
for Fever		Electronics and				Board	
screening in		Instrumentation				(SERB),	
Crowded places		Engg.				Department	
for Detection of	Du M Dalaui Thaulauai	&Computer				of Science	
Infectious	Dr.M.Palani Thankaraj	Science and	2020	11 (1 (20	2 // 2 7 7 2	and	Cavananant
Diseases.	Dr.Parvathavarthini	Engg.	2020	11,61,629	2 Years	Technology	Government
Managing the							
psychological							
wellbeing of							
remote working							
employees during Covid	Dr. Jayasree krishnan					ICSSR, New	
pandemic.	Dr. U. Abirami	MBA	2020	3,25,000	6 Months	Delhi	Government
Climate change	DI. O. Abirailii	IVIDA	2020	3,23,000	0 MONTHS	Dellili	Government
and its effect							
on agricultural							
pattern and							
lifestyle of							
farmers in the							
selected Agro							
climatic zones							
of Karnataka-							
suggest							
measure for a							
policy						ICSSR, New	
framework.	Dr. D. Joel Jebadurai	MBA	2020	6,60,000	2 Years	Delhi	Government

Solar energy utility using energy efficient novel converter to provide supply to described load	Dr. Jayarama PradeepDr. V. Krishnakumar,Dr. P. Anbarasan	Electrical and Electronics Engineering	2020	20,000	1 Year	TIAS Energy	Non-Government
						National	
						Hydrology	
National						Project	
Hydrology						(Government	
Project						of India	
(Government of						under	
India under						Ministry of	
Ministry of Jai		late was et a se				Jai Shakti)	
Shakti) Roorkee, India	Dr.HeltinGenitha	Intormation Technology	2020	75,000	1 Year	Roorkee, India	Government
	DI.HeitiliGellitila	reciliology	2020	73,000	1 (60)		Government
Penetration						Affluent	
testing on web	Dr.Lilly Raamesh	Information	2020	25.000		Consulting	
apps	Dr.Duraimurugan S	Technology	2020	25,000	1 year	Pvt Ltd,	Non-Government
Providing and fixing of air							
conditioners at							
various							
locations in						Gemini	
NIOT campus		Mechanical				Cooling	
(Phase II)	Dr.S.Arivazhagan	Engineering	2020	36,000	1 Year	System	Non-Government
Smart							
attendance and							
public							
announcement							
system with	Dr.	Electronics and				M/s	
open CV	C.N.Gnanaprakasam	Instrumentation				Gemicates	
technology	Dr.G.Brindha	Engineering	2020	2,05,000	1 Year	Technologies	Non-Government
Advanced face							
recognition	D. D. C. Albill	Electronics and				M/s	
system using	Dr B. Senthilkumar	Instrumentation	2020	2.07.000	1 // 2 // 2 // 2 // 2 // 2 // 2 // 2 //	Gemicates	Non Covernment
Python	Mr R.Elavarasan	Engineering	2020	2,07,000	1 Year	Technologies	Non-Government