

L. D. College of Engineering, Ahmedabad
Research Paper Publications

Sr. No.	Dept.	Faculty Name	Paper Title, Name of the Journal /Conference, Publication Month, Publication Year	Link of the Paper
1	Applied Mechanics	Prof. S. R. Singh (S)	Effect of Microbial Induced Calcite Precipitation on Strength Improvement of Marine Clays, Bioscience Biotechnology Research Communications (BBRC), March, 2020	https://bbrc.in/bbrc/wp-content/uploads/2020/05/FINAL-PDF-Special-Issue-Vol-13-No-1-2020.pdf
2	Applied Mechanics	Prof. S. R. Singh (S)	Experimental Study on Retaining Walls with Narrow Cohesionless Backfill Using Arching Theory, Geo-Congress 2020, February, 2020	https://ascelibrary.org/doi/abs/10.1061/9780784482797.054
3	Sciences and Humanities	Dr. Digeshkumar B. Shah	Economic order quantity model for price-sensitive quadratic demand with imperfect quality under inspection, Investigacion Operacional, December, 2020	https://rev-inv-ope.pantheonsorbonne.fr/sites/default/files/inline-files/41620-04.pdf
4	Sciences and Humanities	Dr. Digeshkumar B. Shah	Optimal carbon footprints for chemical industries incorporating trade credit under trended demand, Investigacion Operacional, December, 2020	https://rev-inv-ope.pantheonsorbonne.fr/sites/default/files/inline-files/41620-01_0.pdf
5	Sciences and Humanities	Dr. Sunil Chandak	Unified fractional integral and derivative formulas, integral transforms of incomplete τ - hypergeometric function, Afrika Matematika, October, 2020	http://dx.doi.org/10.1007/s13370-020-00848-4
6	Sciences and Humanities	Yogita R Sharma	Propagation of longitudinal electro-kinetic waves in III-nitride semiconductor with participating ion colloids, AIP Conference Proceeding, May, 2020	https://doi.org/10.1063/5.0000759
7	Sciences and Humanities	Yogita R Sharma	Influence of magnetic field on longitudinal electro-kinetic modes in a magnetized GaN semiconductor embedded with nano sized ion colloids, AIP Conference Proceeding, May, 2020	https://doi.org/10.1063/5.0000759
8	Sciences and Humanities	Yogita R Sharma	Effects of nano sized ion grains on parametric interaction of laser in n-type III-V semiconductor, AIP Conference Proceeding, May, 2020	https://doi.org/10.1063/5.0000759

9	Sciences and Humanities	Brijesh Kumar Tripathi	Hypersurfaces of a Finsler Space with deformed Berwald Infinite Series Metric, TWMS Journal of Applied and Engineering Mathematics, March, 2020	http://jaem.isikun.edu.tr/web/images/articles/vol.10.no.2/02.pdf
10	Sciences and Humanities	Brijesh Kumar Tripathi	Hypersurfaces of a Finsler Space with exponential (alpha,beta)-metric, Annals of the University of Craiova Mathematics and Computer Sciences Series', MArch, 2020	http://inf.ucv.ro/~ami/index.php/ami/article/view/1221/734
11	Sciences and Humanities	Pragnesh L Thakkar	EFFECT OF SURFACE ROUGHNESS ON CHARACTERISTICS OF MAGNETIC FLUID BASED SQUEEZE FILM BETWEEN POROUS CIRCULAR PLATES, Journal of the Serbian Society for Computational Mechanics, November, 2020	
12	Sciences and Humanities	Pragnesh L Thakkar	EFFECT OF TRANSVERSE ROUGHNESS ON CHARACTERISTICS OF SQUEEZE FILM BETWEEN POROUS COMPLETE CONICAL PLATES, STRUCTURAL INTEGRITY AND LIFE, November, 2020	
13	Sciences and Humanities	Dr. Sunil Chandak	Unified integral associated with the generalized V-function, Advances in Difference Equations, October, 2020	https://advancesindifferenceequations.springeropen.com/articles/10.1186/s13662-020-03019-8
14	Sciences and Humanities	Dr. Jignesh Hirpara	Investigation of tantalum oxynitride for hard and anti-corrosive coating application in diluted hydrochloric acid solutions, Materials Today Communications, April, 2020	https://doi.org/10.1016/j.mtcomm.2020.101113
15	Sciences and Humanities	Ms. Hiral Raval	Growth, Characterization and Theoretical parameter study of Benzimidazole L-Tartrate single crystal: An nonlinear optical material, Bulletin of material sciences, AUGUST, 2020	DOI: 10.1007/s12034-020-02320-2
16	Sciences and Humanities	Parth Raval	Growth, Characterization and Theoretical parameter study of Benzimidazole L-Tartrate single crystal: An nonlinear optical material, Bulletin of material sciences, AUGUST, 2020	DOI: 10.1007/s12034-020-02320-2

17	Biomedical Engineering	Prof. Bhavesh Parmar	Assistive device using computer vision and image processing for visually impaired; review and current status, https://doi.org/10.1080/17483107.2020.1786731 , , Taylor & Francis, Journal of Disability and Rehabilitation: Assistive Technology, ISSN: 1748-3115, July, 2020	https://www.tandfonline.com/doi/abs/10.1080/17483107.2020.1786731
18	Chemical	Dr.Sachin P. Parikh	Structural and composition enhancement of Indian Kachchh kaolin clay: characterisation and application as low-cost catalyst, Indian Chemical Engineer, Taylor & Francis, January, 2020	
19	Chemical	Dr.Sachin P. Parikh	Solar Light Induced Photocatalysis for Treatment of High COD Pharmaceutical Effluent with Recyclable Ag-Fe Codoped TiO ₂ : Kinetics of COD Removal, Current World Environment 15(1):137-150 , April, 2020	
20	Chemical	Dr.Sachin P. Parikh	Potential of Ag-Fe co-doped TiO ₂ nanocomposite for solar photocatalysis of high COD pharmaceutical effluent and influencing factors, Springer,Energy, Ecology and Environment,Issue 4/2020, April, 2020	
21	Chemical	Prof. Supritam M. Dutta	Performance of low pressure nanofiltration membrane in forward osmosis using magnesium chloride as draw solute, Journal of Water Process Engineering,Volume 33, 101092, February, 2020	doi:10.1016/j.jwpe.2019.101092
22	Chemical	Prof. Ronak R. Patel	Feasibility analysis of Ca-looping sorption enhanced steam reforming of bio-butanol for SOFC application: comparative study with steam and auto-thermal reforming, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Page no. 1-19, DOI: 10.1080/15567036.2020.1765900, May, 2020	https://doi.org/10.1080/15567036.2020.1765900

23	Chemical	Dr.Sachin P. Parikh	Stastical optimizing of electrocoagulation process for the removal of Cr(VI) using response surface methodology and kinetic study, Arabian Journal of Chemistry, July, 2020	
24	Chemical	Dharmendra Mandaliya	A study on Feasibility of Bioremediation of Crude Oil contaminated soil from Kalol with Indigenous Mixed Culture, Journal of Indian Association for Environmental Management (JIAEM), November, 2020	http://14.139.47.23/index.php/JIAEM/article/view/32358
25	Chemical	Dr. Shital Amin	Etherified Amino Resins with Tailor-Made Properties: A Holistic Approach via Polymerization, American Chemical Society, August, 2020	https://doi.org/10.1021/acs.iecr.0c02561
26	Chemical	Dr. Shital Amin	Process design of batch reactors using multi-objective optimization for synthesis of butylated urea formaldehyde resins, Computers & Chemical Engineering, September, 2020	https://doi.org/10.1016/j.compchemeng.2020.106892
27	Civil Engineering	R.N.SHUKLA	Mode Choice Analysis of Trips of Students and Staff in Education Hub Using Multinomial Logit Model, Journal of Xidian University, JUNE, 2020	https://doi.org/10.37896/jxu14.6/075
28	Civil Engineering	R.N.SHUKLA	Mode choice modelling for shopping mall trips in Metropolitan cities, Journal of Xidian University, NOVEMBER, 2020	https://doi.org/10.37896/jxu14.11/001
29	Civil Engineering	R.N.SHUKLA	Analysis of Parking Demand And Supply For Residential Landuse, Solid State Technology Journal, FEBRUARY, 2020	http://solidstatetechnology.us/index.php/JSST/article/view/9102
30	Civil Engineering	Dr. P. J. Gundaliya	Value for money factors in Indian public-private partnership road projects: An exploratory approach, Journal of Project Management, October, 2020	10.5267/j.jpmm.2020.10.002
31	Civil Engineering	Dr. P. J. Gundaliya	Value for money factors in Indian public-private partnership road projects: An exploratory approach, Journal of Project Management, Volume 6, October 2020 , October, 2020	(http://dx.doi.org/10.5267/j.jpmm.2020.10.002)

32	Civil Engineering	Dr. P. J. Gundaliya	Negative factors in implementing public-private partnership in Indian road projects, International Journal of Construction Management, Taylor & Francis Online , December, 2020	(https://doi.org/10.1080/15623599.2020.1857672)
33	Computer Engineering	Prof. Hetal A. Joshiyara	Performance Optimization In Big Data Processing Using Enhanced Speculative Approach, Journal Of Critical Reviews, September, 2020	http://www.jcreview.com/index.php?iid=2020-7-13.000&&jid=197&lng=
34	Computer Engineering	Prof. Vimalkumar B Vaghela	K-Anonymization Approach FOR Privacy Preserving IN Data Mining, INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH, January, 2020	http://www.ijstr.org/final-print/jan2020/K-anonymization-Approach-For-Privacy-Preserving-In-Data-Mining.pdf
35	Computer Engineering	Dr. S.M. Shah	VM Relocation based Energy Reduction in Green Cloud Computing, Journal of Xidian University, July, 2020	http://xadzkjdx.cn/Volume-14-Issue-7-July-20/
36	Computer Engineering	Prof. Jay Dave	Secure Proof of Ownership Using Merkle Tree for Deduplicated Storage, Automatic Control and Computer Sciences, 54(4), pp.358-370, Springer., September, 2020	https://link.springer.com/article/10.3103/S0146411620040033
37	Computer Engineering	Prof.Hetal Joshiara	PERFORMANCE OPTIMIZATION IN BIG DATA PROCESSING USING ENHANCED SPECULATIVE APPROACH., Journal of Criticle Reviews ISSN- 2394-5125 Vol 7, Issue 13, 2020, September, 2020	https://www.bibliomed.org/mn-sfulltext/197/197-1599814147.pdf?1633599148
38	Computer Engineering	Prof. S. A. Patel	Connectionist Temporal Classification Model for Dynamic Hand Gesture Recognition using RGB and Optical flow Data, The International Arab Journal of Information Technology (IAJIT), July, 2020	https://iajit.org/portal/index.php/archive/volume-17-2020/july-2020-no-4/item/836-connectionist-temporal-classification-model-for-dynamic-hand-gesture-recognition-using-rgb-and-optic
39	Computer Engineering	Dhara Buch	Trinetra: a solution to handle cross-VM time-driven attack, Springer Nature Applied Sciences, March, 2020	https://link.springer.com/article/10.1007/s42452-020-2297-z
40	EC	Prof. P.P.Prajapati and Prof. M. V. Shah	Automatic sizing of CMOS based analog circuits using cuckoo search algorithm, International Journal of Intelligent Systems Technologies and Applications, APRIL, 2020	https://www.inderscienceonline.com/doi/abs/10.1504/IJISTA.2020.107217

41	EC	Prof. P.P.Prajapati and Prof. M. V. Shah	Automatic circuit design of CMOS Miller OTA using cuckoo search algorithm, International Journal of Applied Metaheuristic Computing, January, 2020	https://www.igi-global.com/gateway/article/239556
42	EC	Dr. Nirali kotak	L & S band feed system design for high gain GNSS antenna system for Earth stations, International Journal of Scientific and Technology Reserch, March, 2020	https://www.ijstr.org/final-print/mar2020/L-S-Band-Feed-System-Design-For-High-Gain-Gnss-Antenna-System-For-Earth-Stations.pdf
43	EC	Prof. K V Patel	Development of AHB-Lite System Verilog based VIP ith Assertion, International Journal for Research in Applied Science & Engineering Technology, April, 2020	https://www.ijraset.com/fileserve.php?FID=27791
44	EC	Prof. (Dr.) Bhavin S.Sedani	L & S band feed system design for high gain GNSS antenna system for Earth stations, International Journal of Scientific and Technology Reserch, March, 2020	https://www.ijstr.org/final-print/mar2020/L-S-Band-Feed-System-Design-For-High-Gain-Gnss-Antenna-System-For-Earth-Stations.pdf
45	EC	Prof. (Dr.) Bhavin S.Sedani	Transition from 4G to 5G technology: High speed mobile communication perspectives, International Journal of Advanced Science and Technology, April, 2020	http://serisc.org/journals/index.php/IJAST/article/view/18733/9481
46	EC	Prof. (Dr.) Bhavin S.Sedani	Extended Compact Genetic Algorithm for Inverted Pendulum Stabilization, International Journal of Advanced Science and Technology, March, 2020	https://www.ijstr.org/final-print/mar2020/Extended-Compact-Genetic-Algorithm-For-Inverted-Pendulum-Stabilization.pdf
47	EC	Prof. (Dr.) Bhavin S.Sedani	Genetic Algorithm and Particle Swarm Optimization Techniques for Inverted Pendulum Stabilization, International Journal of Advanced Science and Technology, April, 2020	https://www.ijitee.org/wp-content/uploads/papers/v9i6/F3426049620.pdf
48	EC	Prof. (Dr.) Bhavin S.Sedani	Evolutionary Algorithms in Stabilization of Inverted Pendulum, International Journal of Recent Technology and Engineering, March, 2020	https://www.ijrte.org/wp-content/uploads/papers/v8i6/F7336038620.pdf
49	EC	Dr. Nirali kotak	Transition from 4G to 5G technology: High speed mobile communication perspectives, International Journal of Advanced Science and Technology, April, 2020	http://serisc.org/journals/index.php/IJAST/article/view/18733/9481

50	EC	Hardik B. Tank	Performance Evaluation of filtering techniques in Filtered OFDM for 5G Technology, International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT-2019), March, 2020	https://www.springerprofessional.de/en/performance-evaluation-of-filtering-techniques-in-filtered-ofdm-/17584208
51	EC	Nirali kotak	Performance Evaluation of filtering techniques in Filtered OFDM for 5G Technology, International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT-2019), March, 2020	https://www.springerprofessional.de/en/performance-evaluation-of-filtering-techniques-in-filtered-ofdm-/17584208
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53	EC	Prof. K V Patel and Prof. M. V. Shah	Analysis of Efficient Implementation of Elliptic Curve Cryptography Architecture for Resource Constraint Application, ADBU Journal of Engineering Technology, December, 2020	https://journals.dbuniversity.ac.in/ojs/index.php/AJET/article/view/1403
54	Electrical Engineering	Dr. K.A.Bhatt	An approach for controlled energization/re-energization of shunt compensated transmission lines, International, March, 2020	https://reader.elsevier.com/reader/sd/pii/S0142061519321064?token=1401E0A5C95804C28450972B1E0CEF9D9062A2BB6315403325BE3656D6E8A6F5BFFAD7220BAFF9339453031E16FA580A&originRegion=eu-west-1&originCreation=20210802084422
55	IC Engineering	Dr. Ankit K. Shah	FPGA-PLC-based multi-channel position measurement system, ISA Transactions, 115, Sept, 2020	10.1016/j.isatra.2021.01.012
56	IC Engineering	Dr. T V Shah	DESIGN OF A HYBRID PID PLUS FUZZY CONTROLLER FOR INNER LOOP AND OUTER LOOP SPEED CONTROL OF DC MOTOR, Journal of engineering, computing, and architecture, May, 2020	http://www.journaleca.com/gallery/ieca%20-%202347.pdf
57	IC Engineering	M.C. Patel	A survey on Pose Estimation using Deep Convolutional Neural Networks, IOP Conference Series: Materials Science and Engineering, Dec, 2020	https://iopscience.iop.org/article/10.1088/1757-899X/1042/1/012008

58	Information Technology	Dr. Hiteishi Diwanji	Trust Computation using Belief Model in Mobile Ad Hoc Network Avoiding Ballot Stuffing and Bad Mouthing, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 43862, 2020	https://www.ijitee.org/wp-content/uploads/papers/v9i4/D1507029420.pdf
59	Information Technology	Dr. Hiteishi Diwanji(S)	Unimodal to Multimodal Emotion Recognition: A systematic Review, Test Engineering and Management, 44428, 2020	https://www.testmagazine.biz/index.php/testmagazine/article/view/14169
60	Information Technology	Dr.Purvi Ramanuj(S)	Big Data Analytics System for Health Care: A Literature Review, Test engineering and management, 44428, 2020	https://www.testmagazine.biz/index.php/testmagazine/article/view/12865
61	Information Technology	Dr.Purvi Ramanuj(S)	Software-Defined Network: Importance and Issues, Test engineering and management, 44428, 2020	https://www.testmagazine.biz/index.php/testmagazine/article/view/12870
62	Information Technology	Dr.Purvi Ramanuj(S)	Volume Rendering for Weather Data using Ray-casting Algorithm on Web, Test engineering and management, 44428, 2020	https://www.testmagazine.biz/index.php/testmagazine/article/view/12865
63	Information Technology	Prof. Bakul B Panchal	An Empirical Study on Server Consolidation Process in Cloud Computing Environment, Test Engineering and Management, 44428, 2020	https://www.testmagazine.biz/index.php/testmagazine/article/view/12871
64	Information Technology	Prof. Swati Patel (s)	Meteorological Big Data Mining : A survey, Test Engineering and Management, 44428, 2020	http://testmagazine.biz/index.php/testmagazine/issue/view/10
65	Information Technology	Prof. Shital Solanki	Automated Classification using SVM and Backpropagation learning technique, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 43922, 2020	DOI: 10.35940/ijitee.C8350.049620
66	Information Technology	Dr.Purvi Ramanuj(S)	Optimizing Recommender System: Literature Review, Turkish Journal of Computer and Mathematics Education (TURCOMAT), 44428, 2020	https://www.turcomat.org/index.php/turkbilmat/article/download/5101/4271
67	Information Technology	Prof. Swati Patel (s)	Big data mining on Rainfall Data, International conference on advance data science and intelligent applications, 43831, 2020	https://link.springer.com/search?facet-eisbn=978-981-15-4474-3&facet-content-type=Chapter&query=keshani

68	Information Technology	Mehul C Parikh	Assistive device using computer vision and image processing for visually impaired; review and current status, https://doi.org/10.1080/17483107.2020.1786731 , , Taylor & Francis, Journal of Disability and Rehabilitation: Assistive Technology, ISSN: 1748-3115, July, 2020	https://www.tandfonline.com/doi/abs/10.1080/17483107.2020.1786731
69	Mechanical	Sheetal Pandya	"Effect of axial conduction in integral rough friction stir channels: experimental thermo-hydraulic characteristics analyses., Heat and Mass Transfer -ISSN 0947-7411, January , 2020	https://link.springer.com/content/pdf/10.1007/s00231-019-02788-7.pdf
70	Mechanical	D. U. Panchal	Application of Shainin® Component Search™ approach as root cause analysis tool for drop in two-wheeler fuel economy, International Journal of Six Sigma and Competitive Advantage Print ISSN: 1479-2494 Online ISSN: 1479-2753, October, 2020	https://www.inderscienceonline.com/doi/pdf/10.1504/IJSSCA.2020.110981
71	Mechanical	D.R.Shah	Effect of Tool Nose Radius and Machining Parameters on Cutting Force, Cutting Temperature and Surface Roughness – An Experimental Study of Ti-6Al-4V (ELI), Materials Today ISSN: 2214-7853, May, 2020	https://www.sciencedirect.com/science/article/pii/S221478532031943X
72	Mechanical	Dr. U. A. Patel	Numerical investigation for the determination of equal vibration amplitude of the linear undamped vibrating system using conventional and ground hook dynamic vibration absorber by modification in the damping factor and mass ratio , International journal of advanced science and technology, june , 2020	http://sersc.org/journals/index.php/IJAST/article/view/20424
73	Mechanical	Dr V B Patel	Coupling of finite element and meshfree method for structure mechanics application: A review, International Journal of Computational methods, , 2020	DOI: 10.1142/S0219876218501517

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75	Mechanical	Dr. U. A. Patel	Numerical investigation for the determination of equal vibration amplitude of the linear undamped vibrating system using conventional and ground hook dynamic vibration absorber by modification in the damping factor and mass ratio , International journal of advanced science and technology, june , 2020	http://sersc.org/journals/index.php/IJAST/article/view/20424
76	Mechanical	K K Pansal	Use of solar photovoltaic with active solar still to improve distillate output: A review, Ground Water for Sustainable Development, April, 2020	https://doi.org/10.1016/j.gsd.20.100341
77	Rubber Technology	Prof.G.G.Bhatt, Daxit Soni(s)	Static analysis of automotive wheel rim of different designs, International conference on Smart sustainable Materials and Technologies , December , 2020	https://aip.scitation.org/doi/10.1063/5.0029809
78	Textile Technology	Prof. S. K. Parmar	Weave Design Architectures of 3-D Woven Fabric for Composite Application, Journal of the Textile Association, July, 2020	https://issuu.com/textileassociationindia/docs/e-journal-jul-aug-20