



WALCHAND INSTITUTE OF TECHNOLOGY, SOLAPUR
(An Autonomous Institute)

Electronics Engineering

Faculty Publications

AY 2023-24

Name of Authors	Title of Research Publication	Name of Journal / Conference
Dr. S. R. Gengaje et al	Design of Secure Data Sharing and Authorized Searchable Framework for e-Healthcare System	International Research Journal of Modernization in Engineering Technology and Science Volume:06, Issue:05. e-ISSN: 2582-5208. June-2024
Dr. S. R. Gengaje & Mr. PDR Patnaik	A Systematic Review of Hardware-in-the-Loop (HIL) Framework for Internet of Things Applications	Grenze International Journal of Engineering & Technology (GIJET), 2024, Vol 10, Issue 1, p1120. Jan 2024
Dr. S. R. Gengaje et al.	Design of Secure Authenticated Key Management Protocol for Cloud Computing Environment	International Research Journal of Modernization in Engineering Technology and Science Volume:06, Issue:05. e-ISSN: 2582-5208. May-2024
Mr. R. S. Khamitkar & Dr. R. R. Dube	Performance Evaluation of Hardware Trojan in SoC with Custom Overlay	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, Volume 2, Pages 1-6. May 2024
Mrs. M.N. Shrigandhi & Dr. S.R. Gengaje	Systematic Literature Review on Object Detection Methods at Construction sites	Expert Clouds and Applications. ICOECA. Lecture Notes in Networks and Systems, vol 673. Springer, Singapore. ISBN 978-981-99-1745-7. July 2023
Mrs. M. N. Shrigandhi et al.	Performance Analysis of American Sign Language Using Wavelet Transform and CNNs	Intelligent Systems and Sustainable Computing. ICISSC. Smart Innovation, Systems and Technologies, vol 363. Springer, Singapore. ISBN 978-981-99-4717-1. October 2023
Dr. Mrs. R.J. Shelke & Ms. S. G. Teli	Underwater Image Enhancements Using CNN And U-Net	Journal of Emerging Technologies and Innovative

		Research. Volume 10, Issue 7, Pages 243-248. Feb 2024
Dr. R.J. Shelke, Dr. R. R. Mergu & Ms. P. B. Patil	Smart Door Opening System Using CNN	Intelligent Systems and Sustainable Computing. ICISSC. Smart Innovation, Systems and Technologies, vol 363. Springer, Singapore. ISBN 978-981-99- 4717-1. October 2023
Dr. R. J. Shelke et al.	Speech Emotion Recognition Using Machine Learning	ICT Systems and Sustainability. Lecture Notes in Networks and Systems, vol 765. Springer, Singapore. ISBN 978-981-99- 5652-4 November 2023.
Mr. A. S. Gundale & Dr. V. M. Meshram	WeaveSense: IoT Infrastructure for Rapier Loom Condition Monitoring and Analysis	SSRG International Journal of Electrical and Electronics Engineering Volume 10 Issue 12, 27-36, ISSN: 2348-8379. December 2023
Mr. A. S. Gundale & Ms. K. R. Gavali	Water Quality Evaluation using Machine Learning Techniques	International Journal of Innovative Research in Technology, Volume 10, Issue 2 ISSN: 2349-6002, July 2023.
Mr. A. S. Gundale & Ms. S. G. Tatikonda	A Soil Quality detection and Crop Management System Using IOT	International Journal of Innovative Research in Technology. Volume 10, Issue 2 ISSN: 2349-6002, July 2023.
Mrs. D. P. Wadkar et al.	UV-C Enhanced Automatic Sanitization Robot	International Journal of Creative Research Thoughts. Volume 12, Issue 5. ISSN: 2320-2882. May 2024
Mrs. P. V. Katare et al.	Royal Bites Restaurant Website	International Research Journal of Modernization in Engineering Technology and Science Volume:06, Issue:05. e-ISSN: 2582-5208. May-2024

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Dr. R.J. Shelke & Ms. P. B. Patil	Smart Face Mask Detection using Convolutional Neural Network.	Journal of Emerging Technologies and Innovative Research(JETIR), ISSN-2349-5162, Volume 9, Issue 12, December , 2022
Mr. A. S. Gundale & Dr. V. M. Meshram	Early Failure Detection of Rapier Weaving Loom using Sensors and Machine Learning Approach	Mathematical Statistician and Engineering Applications, ISSN: 2886-2881, Vol. 71, Issue 4, August 2022
Dr. S. R. Gengaje & Ms. R. K. Gundla	Review on Android Malware Detection System	Lecture Notes on Data Engineering and Communications Technologies book series (LNDECT), Springer Publication, Electronic ISSN 2367-4520, Print ISSN 2367-4512, Volume: 137, 'September 2022
Dr. S. R. Gengaje & Mrs. M. N. Shrigandhi	Systematic Literature Review on Object Detection Methods at Construction sites	'Lecture Notes in Networks and Systems' Book Series LNNS, Springer eBook, Volume: 673, 709-724, July 2023
Mr. R. S. Khamitkar & Dr. R. R. Dube	Performance Evaluation of Hardware Trojan using FPGA	'Lecture Notes in Electrical Engineering' book series LNEE, Springer eBook, Volume 992, May 2023
Dr. S. R. Gengaje & Mr. B. R. Solunke	A Review on Traditional and Deep Learning based Object Detection Methods	5th IEEE International Conference on "Emerging Smart Computing & Informatics" (IEEE ESCI-2023), 1-3 March 2023
Dr. S. R. Gengaje & Ms. R. K. Gundla	Review on Android Malware Detection System	International Conference on Data Management, Analytics & Innovation ICDMAI 2022, 14-16 January
Dr. S. R. Gengaje & Mrs. M. N. Shrigandhi	Systematic Literature Review on Object Detection Methods at Construction Sites	International Conference on Expert Clouds and Applications (ICOECA-2023), 9th & 10th Feb 2023

Dr. S.R. Gengaje & Mr. B. R. Solunke	YOLOv7: A General Framework of Real-Time Multi-Objects Detection For Advanced Driving Assistant	National Conference on AI for decision Making, 9th – 10th March 2023
Dr. S.R. Gengaje & Ms. R. K. Gundla	Android Malware Detection using Machine Learning	National Conference on AI for decision Making, 9th – 10th March 2023
Dr. R.J. Shelke & Ms. P. B. Patil	Automatic Door Opening System using CNN	4th International Conference "Techno-Societal 2022" on “Advanced Technologies for Societal Applications”, 9th - 10th December 2022
Dr. R.J. Shelke, Dr. R. R. Mergu & Ms. P. B. Patil	Smart Door Opening System using CNN	International Conference on Intelligent Systems & Sustainable Computing (ICISSC-2022), December 16-17, 2022
Dr. R.J. Shelke & Ms. P. B. Patil	Real-Time Face Recognition for Biometric Attendance Using Convolutional Neural Network	National Conference on AI for decision Making, 9th – 10th March 2023
Dr. R.J. Shelke & Ms. K. R. Gavali	Analysis of Water Quality using Machine Learning	National Conference on AI for decision Making, 9th – 10th March 2023
Dr. R.J. Shelke & Ms. S. G. Teli	Review on underwater Image Enhancement using CNN	National Conference on AI for decision Making, 9th – 10th March 2023
Mrs. M. N. Shrigandhi et al.	Performance analysis of American sign language recognition using Wavelet transform and Convolutional Neural Network (CNN)	International Conference on Intelligent Systems & Sustainable Computing (ICISSC-2022), December 16-17, 2022
Mrs. M. N. Shrigandhi & Dr. S. R. Gengaje	Detection of Excavator and Workers at Construction Site using YOLO V3	National Conference on AI for decision Making, 9th – 10th March 2023
Mr. R. S. Khamitkar & Dr. R. R. Dube	Performance Evaluation of Hardware Trojan using FPGA	7th International Conference on Micro-ectronics, Electromagnetics and Telecommunications (ICMEET 2022), July 22 - 23, 2022

AY 2021-22

Name of Authors	Title of Research Publications	Name of Journal / Conference
Dr. S.R. Gengaje et al.	A Theoretical Foundation for Syntactico-Semantic Pattern Recognition	IEEE Access Journal,ISSN: 2169-3536 ,Volume: 9,2021
Dr. R.J. Shelke & Ms. P. B. Patil	Review on Robust Face Recognition for Biometric Attendance Using Convolution Neural Network	The International journal of analytical and experimental modal analysis, ISSN: 0886-9367, Volume13, Issue8
Dr. R.J. Shelke & Ms. M. A. Dodatale	A Survey paper on FECG Extraction and Monitoring	International Research Journal of Engineering and Technology (IRJET) ISSN: 2395-0056 , Volume: 08 Issue: 12
Mr. S. C. Kalshetti et al.	IOT Based Weather Monitoring System	International Journal of Research in Engineering and Science (IJRES),ISSN (Online): 2320-9364, ISSN (Print): 2320-9356, Volume 10 Issue 5
Mrs. M. N. Shrigandhi et al.	Class 360: Student's Database Management System	International Journal for Science and Advance Research In Technology (IJSART), ISSN [ONLINE]: 2395-1052,Volume 8 Issue 5
Mrs. M. N. Shrigandhi et al.	Attendance System Using IoT & Fingerprint Sensor	International Journal for Science and Advance Research In Technology (IJSART), ISSN [ONLINE]: 2395-1052,Volume 8 Issue 5

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Name of Authors	Title of Research Publications	Name of Journal / Conference
Mr. A.S. Gundale & Dr. V. M. Meshram	SoA Based IoT framework for Early Detection of Sensor Failure	International Journal of Critical Reviews, Volume- 7 Issue- 15, ISSN- 2394-5125, September-2020
Mr. S.C. Kalshetti et.al.	Design And Experimental Validation of Adaptive Fuzzy Sliding Mode Controller for Robotic Manipulators	Turkish Journal of Computer and Mathematics Education, ISSN: 1303-6149, Volume No.12 Issue No.13 , Pg. No. 1144-1153
Mr. S. C. Kalshetti et.al	Gesture Controlled Wireless Robotic Arm	International Journal of Research in Engineering and Science, ISSN: 2581-5792, Volume No.9 Issue No. 7, Pg. No. 5-12
Mrs. V. S. Patki et.al	AI based Multi-Agent online shopping system	International Research Journal of Engineering and Technology, ISSN:2395-0056, Volume No.8 Issue No. 7, Pg. No. 3032-3037
Mrs. V. S. Kulkarni et. al.	Virtual Marketing: Just Scan to Shop	International Conference on Signal Processing & Communication Engineering System (SPACES- 2021)

AY 2019-20

Name of Authors	Title of Research Publications	Name of Journal / Conference
Mr. P. S. Malge & Ms. S. A. Kale	Melioration Process For Image Sharing Security And Secured Image Login	International Journal of Science & Engineering Development Research, Vol. 4, Issue 9, ISSN (Online): 2455-2631, PP-272- 278, September 2019
Mr. S. C. Kalshetti & Dr. S. K. Dixit	Adaptive Fuzzy Sliding Mode Controller for Robot Manipulator: Effect on External Interferences	International Journal of Innovative Technology and Exploring Engineering, Vol-9 , Issue-1, ISSN : 2278-3075, PP- 5024-5031, November 2019
Mr. S. C. Kalshetti & Dr. S. K. Dixit	Adaptive Fuzzy Sliding Mode Controller Design for Robot Manipulator	International Journal of Electronics Engineering, Vol-12 , Issue-1, ISSN : 0973-7383, PP- 28-38, January 2020
Mr. A. S. Gundale & Dr. V. M. Meshram	Framework for Early Failure Detection of Sensor	Eleventh International conference on Advances in Power Electronics & Instrumentation Engineering PEIE-2020 on 28 & 29th Feb 2020
Mr. E. J. Chandane & Mrs. M. M. Pawar	DVB Transmission and Reception Using MIMO-OFDM	International Conference on Recent Innovations in Engineering Technology – 20, Vol-1, Issue 2, ISBN - 978-93- 5396-746-8, January 2020