



Association of Electrical Sciences
SIDDAGANGA INSTITUTE OF TECHNOLOGY

TUMKURU - 572103, KARNATAKA, INDIA.

(An Autonomous Institute affiliated to Visvesvaraya Technological University, Belgaum.)

Approved by AICTE, Accredited by NACC with A++ Grade, New Delhi and ISO 9001-2015 Certified)

Phone : Direct 0091-816-2282696, 2214001, (Off.) +91-816-2214000

Fax : +91-816-2282994 **Website:** icses.sit.ac.in

ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT

Sl. No	Paper ID	Paper Title	Presentation
1	68	Design and Implementation of BIST Architecture for low power VLSI Applications using Verilog	online
2	95	Design and Implementation of Low-power Novel Encoder based Flash ADC.	online
3	97	Comparative Analysis of EEPL and CPL techniques based 2:1 Multiplexer using 18nm FinFET Technology	online
4	101	SMART KISAN: A mobile app for farmers' assistance in agricultural activities	online
5	109	De-Adulteration techniques for aquatic and atmospheric system using IoT for Smart Cities	online
6	111	A Novel study on Smart Sensors used in Smart Automation system	offline
7	123	Gallium Nitride (GaN) Device - Study and Application in Power Electronics	offline
8	154	Emotion Recognition and Stress Reduction Based on Electroencephalograph (EEG) Signals validated by Machine Learning Algorithms	online
9	170	Trajectory Tracking and Lane-Keeping Assistance for Autonomous Systems using PID and MPC Controllers	online
10	183	Investigating the Performance of a Wide Bandgap BaZrS3 Perovskite Tandem Solar Cell	online
11	184	Design of Fractional Order PID Controller Based Automatic Voltage Regulator System Using HarrisHawk Optimization Algorithm	online
12	205	Gate C-V Characteristics of n-Channel MOSFET Considering Quantum Mechanical Effects	offline
13	209	Design and implementation of cruise control for bikes	offline
14	244	Review paper on Design and implementation of Kogge-stone, Sparse Kogge-stone and Spanning tree adder	offline
15	251	Modelling and Simulation of Various suspension systems for dual axis MEMS Accelerometer towards seismic sensing application.	online
16	267	Evaluating Metaheuristic Algorithms and Neural Networks for PID Tuning.	online
17	289	Design of Optimized and Energy Efficient 1-bit Comparator	online
18	300	Fabrication and Characterization of Nano Structured ZnO Thin Films For Gas Sensing Applications	online
19	311	Classification of ECG Arrhythmia Using Convolutional Neural Network	offline
20	362	CsPbI3 Based Perovskite Solar Cells: ETL Parameters Optimization using SCAPS-1D	online
21	370	Deep Learning-Based Braille Technology for Visual and Hearing Impaired People	online
22	372	Investigation of CH3NH3SnBr3 Perovskite as an Active Layer in PV Cells: SCAPS-1D Simulation and Thickness Optimization for Enhanced Efficiency	online
23	379	Anomaly Based IDS in Industrial IoT	online
24	444	HDL Programming and Sequential Circuitry for Multi-Core RISC-V Processor	online



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Sl. No	Paper ID	Paper Title	Presentation
25	615	Synthesis and Characterization of Silver Nanoparticles for Gas Sensing Applications	offline
26	656	A Medical Chatbot with Object Detection Feature for Improved Patient Care	offline
27	663	Blind-Aid Empowering the Visually Impaired	offline
28	668	Underwater Surveillance Robot	offline



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ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT

Track 4 Dr. S RADHAKRISHNAN SEMINAR HALL

07.07.2023

11.30 pm- 1.00 pm

Sl no	Paper ID	Title	Presentation
1	111	A Novel study on Smart Sensors used in Smart Automation system	offline
2	68	Design and Implementation of BIST Architecture for low power VLSI Applications using Verilog	online
3	95	Design and Implementation of Low-power Novel Encoder based Flash ADC.	online
4	97	Comparative Analysis of EEPL and CPL techniques based 2:1 Multiplexer using 18nm FinFET Technology	online

2.00 pm- 3.30p m

Sl no	Paper ID	Title	Presentation
1	123	Gallium Nitride (GaN) Device – Study and Applications in Power Electronics	offline
2	205	Gate C-V Characteristics of n-Channel MOSFET Considering Quantum Mechanical Effects	offline
3	101	SMART KISAN: A mobile app for farmers' assistance in agricultural activities	online
4	109	De-Adulteration techniques for aquatic and atmospheric system using IoT for Smart Cities	online
5	154	Emotion Recognition and Stress Reduction Based on Electroencephalograph (EEG) Signals validated by Machine Learning Algorithms	Online

4.00 pm- 5.30p m

Sl no	Paper ID	Title	Presentation
1	209	Design and implementation of cruise control for bikes	offline
2	244	Review paper on Design and implementation of Kogge-stone, Sparse Kogge-stone and Spanning tree adder	offline
3	170	Trajectory Tracking and Lane-Keeping assistance for autonomous systems using PID and MPC controllers	online
4	183	Investigating the Performance of a Wide Bandgap BaZrS3 Perovskite Tandem Solar Cell	Online
5	184	Design of Fractional Order PID Controller Based Automatic Voltage Regulator System Using HarrisHawk Optimization Algorithm	online



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ELECTRONICS AND INSTRUMENTATION ENGINEERING DEPARTMENT

Track 4 Dr. S RADHAKRISHNAN SEMINAR HALL

08.07.2023

9.00 am- 10.30am

Sl no	Paper ID	Title	Presentation
1	311	Classification of ECG arrhythmia using convolutional neural network	offline
2	615	Synthesis and Characterization of Silver Nanoparticles for Gas Sensing Applications	offline
3	251	Modelling and Simulation of Various suspension systems for dual axis MEMS Accelerometer towards seismic sensing application.	online
4	267	Evaluating Metaheuristic Algorithms and Neural Networks for PID Tuning.	online
5	289	Design of Optimized and Energy Efficient 1-bit Comparator	online

11.00 am- 12.30pm

Sl no	Paper ID	Title	Presentation
1	656	A Medical Chatbot with Object Detection Feature for Improved Patient Care	offline
2	663	Blind-Aid Empowering the Visually Impaired	offline
3	300	Fabrication and Characterization of Nano Structured ZnO Thin Films For Gas Sensing Applications	online
4	362	CsPbI3 Based Perovskite Solar Cells: ETL Parameters Optimization using SCAPS-1D	online
5	370	Deep Learning-Based Braille Technology for Visual and Hearing Impaired People	online

2.00 pm- 3.30pm

Sl no	Paper ID	Title	Presentation
1	668	Underwater Surveillance Robot	offline
2	372	Investigation of CH ₃ NH ₃ SnBr ₃ Perovskite as an Active Layer in PV Cells: SCAPS-1D Simulation and Thickness Optimization for Enhanced Efficiency	online
3	379	Anomaly Based IDS in Industrial IoT	online
4	444	HDL Programming and Sequential Circuitry for Multi-Core RISC-V Processor	online