

CONFERENCE SCHEDULE

DAY-1: Wednesday 25th October 2023

Time	Venue	Program	Duration
08:00	Reception room	Onsite Registration	60 minutes
09:00	Main hall	Guests to be seated and opening of ICETAS 2023	15 minutes
09:15		Welcome speech by Dr Hasan Almulla	10 minutes
09:25		Speech by HE Dr Mohammed bin Mubarak Juma	10 Minutes
09:35		Brief speech on conference statistics by the Conference Chair Dr Anupama Prasanth	10 minutes
09:45		Speech by Honorary Keynote Speaker – Dr Mahmood Shah Topic: Cyber war: Methods and Strategies for National Defense	25 Minutes
10:10		Award distribution and photo session	20 Minutes
10:30		Coffee Break	30 minutes
11:00 – 13:00	Main hall	Keynote Speaker: Dr Fay Abdulla Alkhalifa Topic: Smart sustainable cities in Bahrain	(20 min of presentations + 5 min of Q&A)
		Keynote Speaker: Dr Hanan Al-buflasa Topic: Smart Computing for Sustainable Energy	
		Keynote Speaker: Dr Fateh Muhammed Marri Topic: Knowledge Economics and Higher Education	
		Keynote Speaker: Mr Ameen Altajer Topic: Artificial Intelligence: Friend or foe	
13:00		Lunch Break	60 minutes
14:00	Room 1	Presentations - Track: AI and Machine Learning	(10 min of presentations + 5 min of Q&A)
	Room 2	Presentations - Track: Renewable Energy	
	Room 3	Presentations - Track: Smart systems/ Renewable Energy	
	Room 4	Presentations - Track: IT and Software	
15:30		Coffee Break	30 minutes
16:00	Room 1	Presentations - Track: AI and Machine Learning	(15 min of presentations + 5 min of Q&A)
	Room 2	Presentations - Track: Robotics and Control	
	Room 3	Presentations - Track: Engineering Technology	
	Room 4	Presentations - Track: IT and Software	
17:30 END of Day 1			

DAY-2: Thursday 26th October 2023

Time	Venue	Program	Duration
09:00 – 11:00	Main Hall	Keynote Speaker: Dr Saleh Alyahya Topic: Integration and Optimization of IOT Enabled Systems for adopting supply chain industry 4.0 Technologies	(20 min of presentations + 5 min of Q&A)
		Keynote Speaker: Dr Siddeeq Yousif Ameen Topic: 6G Communication Networks: Needs, Challenges and Future Communication Technologies	
		Keynote Speaker: Dr. Selvakumar Manickam (Online) Topic: Industry 4.0 : Transforming Automation for a Smarter Future	
		Keynote Speaker: Dr Aysha Mohammed Topic: Beyond Boundaries: Embracing AI's Partnership in Enhancing Human Intelligence	
11:00		Coffee Break	30 minutes
11:30	Main Hall	Workshop: A Roadmap to High-impact Research: Scopus and ISI Publishing	60 minutes
11:30	Room 3	Presentations - Track: Parallel Online Session 1	(10 min of presentations + 5 min of Q&A)
11:30	Room 4	Presentations - Track: Parallel Online Session 2	
12:30		Lunch Break	60 minutes
13:30	Room 1	Keynote Speaker: Prof Monika Foster Topic : 'A Friend or a Foe? Examining the impact of AI on Higher Education'	(10 min of presentations + 5 min of Q&A)
	Room 2	Presentations - Track: IT and Software	
	Room 3	Presentations - Track: Engineering Technology	
	Room 4	Presentations - Track: Education Systems	
15:00		Coffee Break	30 minutes
15:30	Room 1	Presentations - Track: IT and Software	
	Room 2	Presentations - Track: Engineering Technology	
	Room 3	Presentations - Track: Online Session	
	Room 4	Presentations - Track: IT and Software	
16:30	Main Hall	Closing Ceremony (Closing Remarks by Prof. Asadullah Shah & Prof. Sheroz Khan)	
End of Conference			

Note: Time followed in schedule is Bahrain Standard Time (GMT+3). Link to respective sessions will be sent to corresponding authors by email.

TECHNICAL SESSIONS: SCHEDULE

DAY-1: Wednesday 25th October 2023

Parallel Session 1		
AI & Machine Learning (Room 1)		
TIME(Hrs)	PAPER ID	PAPER TITLE
14:00	27	Cardiovascular Disease Prediction Using Machine Learning Algorithms
14:15	39	Deep Learning Approach for Bone Marrow Cell Detection and Classification on Whole-Slide Images
14:30	40	Overlapped symptoms detection of cardiovascular disease based on Deep Learning
14:45	112	Toxicity detection in water based on Polycyclic Aromatic Hydrocarbons Using machine learning algorithms
15:00	139	Machine Learning Based Framework for Attack Detection on IoT Devices
15:15		
Renewable Energy (Room 2)		
TIME(Hrs)	PAPER ID	PAPER TITLE
14:00	28	Design and optimization of a Small Horizontal Axis Wind Turbine Blade using QBlade
14:15	29	Finite Element Analysis of Dynamic Behavior of NREL 5-MW Horizontal Axis Wind Turbine Blade
14:30	36	Towards a Sustainable Future: Integrating Tidal, Solar, and Wind Energy for Green Power Generation in Bahrain
14:45	38	GU CyberCar: Designing a Solar-Powered Electric Vehicle with IoT Integration
15:00	53	Towards Sustainable Smart Sites: Design and Development of Autonomous Solar Panel Cleaning Robot
15:15		
Smart systems/ Renewable Energy (Room 3)		
TIME(Hrs)	PAPER ID	PAPER TITLE
14:00	69	Dust Accumulation and its Effect on Solar Photovoltaic Output: An Experimental Study in Bahrain
14:15	11	Smart Manufacturing and the Sustainable Development Goals: A Poverty Reduction Perspective
14:30	128	Experimental Assessment of Hemispherical Solar Still Design with Reflectors
14:45	19	The Economic Impact of Smart Transportation Systems: A Comprehensive Analysis
15:00	20	The Potential of Smart Agriculture to Reduce Household Poverty
15:15	138	Exploring Applications of Virtual Patients and Simulations in Telemedicine
IT and Software (Room 4)		
TIME(Hrs)	PAPER ID	PAPER TITLE
14:00	5	Examining the Factors Influencing the Pervasive Learning Acceptance and Usage in Developing Countries: A study of Pakistani Universities
14:15	6	ICT-Based Novel Meta-Ecosystem For Smart Business Process
14:30	10	The Social Impact of Smart Cities: A Comprehensive Study with Digital Solutions
14:45	30	Implementation of an Efficient IoT Enabled Automated Paralysis Healthcare System
15:00	33	The Effect of Covid-19 on Estimated Total Costs of Construction Projects in Bahrain
15:15	102	Leveraging Social Media in Mobile Government: Enhancing Citizen Engagement and Service Delivery

DAY-1: Wednesday 25th October 2023

Parallel Session 2		
AI & Machine Learning (Room 1)		
TIME(Hrs)	PAPER ID	PAPER TITLE
16:00	63	Predictive Modeling of Student Behavior for Early Dropout Detection in Universities using Machine Learning Techniques
16:15	65	Deep Learning Prediction of Exonic Sequence
16:30	81	Averaged EMG profiles and artificial neural network based walking speed estimation by gait analysis
16:45	92	Detecting Android Malware: Unleashing the Power of Machine Learning
17:00		
17:15		
Robotics and Control (Room 2)		
TIME(Hrs)	PAPER ID	PAPER TITLE
16:00	24	Comparative Study of Anti-swing Controllers for a Triple Link Rotary Pendulum System
16:15	60	Study of Fuzzy Control for Pitch and Yaw Angles of Two-Degrees-of-Freedom Helicopter System
16:30	61	Design of Robust controller for Tail-Sitter VTOL Aircraft
16:45	72	Design and Implementation of Telepresence Robot
17:00	74	Design and Implementation of Sterilization Robot
17:15	113	Design of RISE Control for Respiratory System
Engineering Technology (Room 3)		
TIME(Hrs)	PAPER ID	PAPER TITLE
16:00	8	Investigation of extremely low frequency electric and magnetic field of 220kV transmission lines in Oman
16:15	23	EADS-EHWSNs: Energy-efficient Adaptive Duty Cycle-based Scheme for Energy Harvested Wireless Sensor Networks
16:30	25	Performance analysis of a power supply system equipped with 2 level Interleaved Boost Converter- voltage Multiplier and inverter configuration for testing applications'
16:45	26	ERAS-NETS: An Efficient Resource Allocation Scheme-based Nonlinear Energy Harvesting Timeslot Switching for SISO SWIPT Systems
17:00	31	Studying and Analyzing the Effect of Friction Lining Thickness on the Pressure Distribution of Disc Brake System Using Finite Elements
17:15	32	Vibration Characteristics of Perforated Plate Using Experimental and Numerical Approaches
IT and Software (Room 4)		
TIME(Hrs)	PAPER ID	PAPER TITLE
16:00	34	The Development of the MSU MyCoral Virtual Reality Application: An Innovative Approach to Educating Students on the Imperative of Coral Reef Rehabilitation
16:15	41	Technological competencies and social capital and empirical study of high-tech Industries
16:30	54	Design and Implementation of NOVEL Networking Architecture for Academic Institutions in the Kingdom of Bahrain – NREN Section
16:45	55	Enhancing Children's Communication Skills Through an Interactive AR Board Game
17:00	62	Goal-Oriented Prioritized Non-Functional Testing with Stakeholders' Priorities
17:15	121	Impact of Cyber Insurances on Ransomware

DAY-2: Thursday 26th October 2023

Parallel Session 1		
Parallel Online Session 1 (Room 3)		
TIME(Hrs)	PAPER ID	PAPER TITLE
10:00	115	Development of Boost Converter System with Solar Charging Controller for Electrical Equipment
10:15	116	Lightning and Surge Arrester Simulation in Power Distribution System
10:30	117	Natural Lighting System using Fiber Optics for Energy Efficiency
10:45	118	Abnormal Image Classification Using Vision Transformer for Smart Agriculture
11:00		Coffee Break
11:30	119	Enhancing Face Recognition in Masked Environments- A Deep Neural Network Investigation with Attention Modules
11:45	120	Predicting Temperature and Humidity for Cotton Field using Deep Learning Models in Smart Agriculture System
12:00	142	3D Hologram in Education to Enhance the Learning Power of Students
12:15	2	Decentralized Energy Trading using Blockchain Technology: A Novel Approach to Democratizing the Energy Market
12:30	4	A Study toward automated student academic advisory system amid the covid 19 pandemic: A case study of University of Nizwa, Sultanate of Oman
12:45	140	Integration and Validation of a robust process for cloud applications
Parallel Online Session 2 (Room 4)		
TIME(Hrs)	PAPER ID	PAPER TITLE
10:00	83	Factors Influencing Users' Perspective on Adopting Cloud Computing Framework in Higher Educational Institutions of Bangladesh
10:15	84	Prospects and Challenges of Cloud Kitchen owners in the Developing countries: Bangladesh Perspective
10:30	145	Adopting Sustainable Agriculture Practices in Developing Nations using CBRS
10:45	151	Extended Reality for Experiential Learning from Students' Perspective
11:00		Coffee Break
11:30	3	Deploying Blockchains to Simplify AI Algorithm Auditing
11:45	22	Block-Chain based Trustful Data-Driven Cyber- Physical Social System Framework for Urban Air Mobility
12:00	59	Sustainable IoT-Based Data Logger System for Marine Applications using Renewable Energy
12:15	13	Big Data Complexity, Dependability, And Emerging Applications
12:30	14	Tumor Detection of Breast Tissue Using Random Forest with Principal Component Analysis
12:45	133	Detection And Discrimination Of Cracked Digitized Paintings Based On Image Processing Methodology

DAY-2: Thursday 26th October 2023

Parallel Session 2		
IT and Software (Room 1)		
TIME(Hrs)	PAPER ID	PAPER TITLE
13:30	64	Information Quality for Mobile Application Development to Assists Pilgrims: A Theoretical Model with Empirical Validation
13:45	73	Cyber Supply Risk Management
14:00	89	Design of pedestrian bridge in Sh. Jaber Al-Ahmed Al-Sabah highway in Bahrain
14:15	90	A systematic literature review of individuals' factors contributing to cybersecurity resilience: How can emerging technologies help?
14:30	91	Prevention of Cybercrime in online retail industry in developing world.
14:45	114	Forecasting the Efficacy of e-Waste Management System using Fourier Series Approach towards Environmental Sustainability
Parallel Online Session - 3 (Room 2)		
TIME(Hrs)	PAPER ID	PAPER TITLE
13:30	103	Shoplifting Prevention System for Fitting Rooms
13:45	104	ArtFora: Phone Application for Artists and Clients
14:00	105	Proposed Capacity Improvement of the Logistics Management Division of the Department of Health of the Philippines
14:15	106	Improving the Current System of Online Sellers by Creating Database System using MS Access
14:30	107	Improving Customer Experience on Instagram: Online Food Shop Ordering
14:45	109	Interoperability: Blockchain's Solution to SOA & Traditional Service-Based Integration Challenges
Engineering Technology (Room 3)		
TIME(Hrs)	PAPER ID	PAPER TITLE
13:30	70	Exploring the Outdoor Relative Humidity Correlates of Collected Water Condensation_A Statistical Analysis in the Kingdom of Bahrain Environment
13:45	75	Design and Development of Fault Detection in Gas Compressor Engines
14:00	76	Study of the Complex Servo Gripper for Industrial Applications
14:15	77	Investigation of Bluetooth Security Issues
14:30		
14:45		
Education Systems (Room 4)		
TIME(Hrs)	PAPER ID	PAPER TITLE
13:30	35	Augmenting Early Childhood Education: The Integration of Augmented Reality in Promoting Personal Hygiene
13:45	66	Mechatronics Engineering in a Face-to-Face Learning Displacement Environment: Its Students' Self-concepts and Challenges
14:00	67	Exploring the Self-Directed Learning Readiness Correlates of Academic Achievement of the Practicum Engineering Students
14:15	68	Forecasting Teaching and Learning Outcomes Effects of Mathematics Courses in the Mechatronics Engineering Degree at UTB
14:30		
14:45		

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Parallel Session 3		
IT and Software (Room 1)		
TIME(Hrs)	PAPER ID	PAPER TITLE
15:30	125	Acquiring Testable NFRs Utilizing Goal Models Enhancing Application Requirements Analysis in Goal-Driven Software Product Lines
15:45	135	E-participation System: Leveraging Blockchain Technology to Enhance Democratic Engagement
16:00	143	Integration and Validation of a robust process for cloud applications
16:15	122	Implementing Hierarchical Attribute Set Based Encryption Over Key-Policy Attribute Based Encryption
16:30	123	The Automated Future: How AI and Automation Are Revolutionizing Online Services
16:45		
Engineering Technology (Room 2)		
TIME(Hrs)	PAPER ID	PAPER TITLE
15:30	79	Fuzzy Logic Based Obstacle Avoidance Algorithm for Unmanned Systems
15:45	80	GRAF CET based modelling of processing operation in modular production system
16:00	110	'A four level Interleaved Boost Converter with a Voltage Multiplier for High Voltage Applications'
16:15	111	An Integrated Environmental Assessment of Carbon Dioxide Emissions from Power Plants: A Study of Bahrain
16:30	153	A Review of Deep Learning Techniques for Crowd Management
16:45		
Parallel Online Session - 4 (Room 3)		
TIME(Hrs)	PAPER ID	PAPER TITLE
15:30	95	Leveraging SQL for Effective Data Acquisition in Wireless Sensor Networks: An Empirical Approach
15:45	152	Techniques for Mitigating Cybercrimes in E-Government Services: A Systematic Review
16:00	127	A Conceptual Framework for Determinants of customer satisfaction of fixed line telecom services in Pakistan
16:15	126	A Conceptual Framework for Moderating Effect of COVID-19 on e-Learning Predictors: An Empirical Study on Student's Perspective in Sindh, Pakistan
16:30	44	FEM solution of radiative convective Non-Darcy MHD Micropolar Flow with Convective Condition
16:45	47	Orthotropic Square Plates with Circular Variations in Tapering and Nonhomogeneity
Parallel Online Session - 5 (Room 4)		
TIME(Hrs)	PAPER ID	PAPER TITLE
15:30	137	Pharmacists' Experiences and Attitudes Towards Patients' Online Medication Information Seeking in Uganda: Across-sectional Survey
15:45	15	CFD Analysis of Brimmed Diffuser Augmented Wind Turbine
16:00	57	Exploring Robust Pose Invariant Face Recognition with Vision Transformers: A Multi-Modal Study
16:15	48	Synthetic License Plate Generation: A Novel Approach for Effective License Plate Recognition in Malaysia
16:30		
16:45		