

CALL FOR PAPERS

20th IBCAST-2023

International Bhurban Conference
on Applied Sciences & Technology

August 22 – 25, 2023

Bhurban, Murree Hills, Pakistan



Technical Co-Sponsor



Conference Tracks

Key Dates

June 25, 2023

Paper Submission
Deadline

July 25, 2023

Notification of
Paper Acceptance

June 30, 2023

Participants Registration
Deadline

Conference Committee

Dr. Raza Samar
Patron-in-Chief

Dr. M. Anwar Mughal
Scientific Secretary

Abdul Ahad Qureshi
Coordinator IBCAST

Dr. Khurram Shahzad Sana
Technical Coordinator

Syed Ali Abbas
IEEE Publication Chair

**Advanced
Materials**

Aerostructures

**Artificial
Intelligence & Software
Technologies**

Biosciences

**Control & Signal
Processing**

**Cyber
Security**

**Fluid
Dynamics**

**Wireless
Communication
& Radar**

**Underwater
Technologies**

**Medical
Sciences**

Organized By

Centres of Excellence in Science & Applied Technologies (CESAT)
Islamabad, Pakistan



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Introduction

The International Bhurban Conference on Applied Sciences & Technology is a unique scientific event which offers exciting opportunities of sharing knowledge and experiences by bringing together academicians, researchers and professionals from different parts of the world at this interdisciplinary conference. To keep abreast with rapid advancements in the fields of Applied Sciences and Technologies, IBCAST is promoting new horizons of research and applications and also making them accessible to experts in need for industrial and economic growth of the country. This conference has been successful in providing a forum to participants from advanced and developing nations to discuss the practical problems, challenges and the solutions available in the field of their research.

Since 2002, the IBCAST is being held consecutively in the vicinity of Islamabad, Pakistan. Until the year 2005 four technological tracks – Advanced Materials, Fluid Dynamics, Control & Simulation and Wireless Communication & Radar were covered. Progressively, new tracks on Aerostructures, Artificial Intelligence & Software Technologies, Biosciences, Cyber Security, Medical Sciences and Underwater Technologies were added. More than 14000 scholars, scientists and engineers from different universities and technical organizations have benefitted from IBCAST. During these conferences more than 3100 research papers have been contributed.

Up to now nineteen conferences have been hosted by the CESAT which is a premier setup of Centres of Excellence in Science and Applied Technologies in Pakistan.

This year IBCAST invites original contributions from authors describing unpublished research work on the topics of following tracks

- Advanced Materials (AM)
- Aerostructures (AS)
- Artificial Intelligence & Software Technologies (AI & ST)
- Biosciences (BS)
- Control & Signal Processing (CSP)
- Cyber Security (CS)
- Fluid Dynamics (FD)
- Medical Sciences (MS)
- Underwater Technologies (UT)
- Wireless Communication & Radar (WCR)

Special sessions and workshops on selected topics will be organized as well.



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Scientific Committee

- **Advanced Materials**
Dr. Naveed A. Siddiqui
Dr. Mazhar Iqbal
- **Aerostructures**
Dr. Abdur Rauf
Dr. Naeem Zafar
- **AI & Software Technologies**
Dr. Usman Qayyum
Dr. Tahir Jameel
- **Biosciences**
Dr. Saifullah Khan
Dr. Irfan Ali
- **Control & Signal Processing**
Dr. Sajjad Asghar
Dr. Awais Akhtar
- **Cyber Security**
Dr. Mureed Hussain
Dr. Shiraz Ahmad
- **Fluid Dynamics**
Dr. Muhammad Rafique
Dr. Busharat Ali Haider
- **Medical Sciences**
Dr. Ayesha Waqar Niazi
Dr. Zeeshan Perwaiz
- **Underwater Technologies**
Dr. Shafiq ur Rehman
Syed Ali Abbas
- **Wireless Communication & Radar**
Dr. Naveed Ahsan
Dr. Abdul Mueed

Conference Venue

Murree is situated on the southern slopes of the Western Himalayan foothills. It is a popular hill station with glorious view of lush green landscapes and mountains. Tourist attractions around Murree include Kashmir Point, Patriata, Dunga Gali Pine Line Track, Bhurban and Nathiagali resorts.

Venue of Medical Sciences track is Islamabad.

Paper Submission

All submissions will pass through the blind review process by the committee of experts in each track of the conference. Papers can be submitted through EasyChair which is accessible from:

<https://easychair.org>

<https://www.ibcast.org.pk>

Accepted and presented papers (except the medical Sciences track) will be published in the IEEE IBCAST Conference Proceedings and submitted to IEEE Xplore.

Registration Fee

- **Rs. 15,000**
Pakistani Participants & CESAT Speakers
 - **Rs. 10,000**
MS Track Participants
 - **Rs. 8,000**
Students from Pakistani Universities
 - **\$ 500 USD**
Foreign Participants
 - **\$ 300 USD**
Students from Foreign Universities
- IEEE members will be discounted by 20%

Accommodation

Accommodation to invited speakers and foreign delegates will be provided for the entire conference duration. Whereas, the contributed paper presenters from Pakistani Institutes will be facilitated for their presentation day only.



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Topics

1. Advanced Materials:

Developments of new materials and improving the existing materials, to obtain better characteristics, are essential for emerging technologies and it have always been main focus of the researchers. It is evident by innumerable publications appearing in scientific journals on Advancement in Materials and their applications every year.

The Advanced Materials track of 20th IBCAST provides opportunities to scientists and engineers to share their knowledge, work and ideas about materials, their properties, behavior and applications.

- The scope of this track includes following areas:
- Polymers, their Processing and Modifications
- Polymeric Matrices and Adhesives for Composites
- High Performance fibers, their Processing & Applications in Composites
- Fiber Reinforced Composite Materials
- Self-healing Smart Materials
- Sandwich Structures and Materials
- Nano-materials and Nanotechnology
- Ceramic Matrix Composites
- Advanced Alloys, Powder Metallurgy and Metal Matrix Composites
- Semiconductor, Fuel Cell and Energy Harvesting Materials
- Thin films, Coating and Surface Technology
- Magnetic, Optical and Photonics Materials
- Porous Materials and Ceramics

2. Aerostructures:

Today's aerostructures require stringent technical and certification as well as financial requirements compliance. These conflicting requirements can be met effectively by bringing together the researchers from academia and industry. IBCAST is one such event that provides a platform through its Aerostructures track for the researchers and educators to share their experiences and knowledge in this important field of science and technology. This forum encompass numerous challenges faced by the aerospace industry during the design, development and testing phases and which can only be met by the use of state of the art computational tools, like finite element method, boundary element method and smooth particle hydrodynamics coupled with powerful computing hardware. The research topics that will be discussed in this track include, but not limited to:

- Aerospace Structural Design
- Advanced Numerical Techniques
- Static and Dynamic Aero-elasticity
- Vibration, Acoustics and Model Analysis
- High Strain Rate Impact Simulations



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- Fatigue Life and Damage Tolerance
- Structural Optimization
- Bio-mechanics
- Advanced Manufacturing Techniques
- Advanced Testing Techniques
- Structural Reliability Analysis
- Joints & Interfaces Design
- Structural Health Monitoring (SHM)
- NDI for Composites
- Wave and Wind Loading
- Case Studies for Failure of Aero-Structures
- Design of Thin Walled Structures
- Model Correlation and Updating
- FSI and Aero-Thermal Heating
- Sub-structuring and Multi-scale Modeling
- Multi-Body Dynamics
- Morphing Technology

3. Artificial Intelligence & Software Technologies:

Artificial Intelligence

Artificial Intelligence (AI) is a technological game changer and has important implications, not to impact the technology itself, but also the related technologies such as aerial drones, electronic warfare, command & control, autonomous system, and the development of swarm robotics.

- Deep learning, Optimization of Deep Networks
- Time Series Analysis, Recurrent Neural Networks
- Active-, Bayesian-Learning, Causal Inference, Gaussian Processes
- Data Science, Big Data
- Classification, Regression, Unsupervised Learning
- Reinforcement Learning and Inverse Reinforcement Learning
- Combinatorial Optimization
- AI based ASIC Design and Verification
- Graphical Models, Vibrational Inference
- Deep Auto-encoders, Adversarial Networks, Generative Models
- Multitask and Transfer Learning
- Brain Computer Interface, Cognitive Science
- AI Safety, Fairness and Accountability, Privacy
- Natural Language Processing
- Multi-Agent Learning, Swarm Intelligence
- Natural Language Processing
- AI / ML on Embedded System



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- Quantum Machine Learning & Tiny ML
- Brain intelligence Understanding (Neuro-cognition)

Software Technologies

- Requirements Engineering and Risk Assessment
- Algorithms Design and Evaluation
- Software Testing, Verification and Reliability
- Model Driven Development/Model Driven Architecture
- DevOps, Agile Development, Agent Oriented Software Engineering
- Design Patterns, Architecture and Frameworks
- Formal Methods and Verification
- Software Quality Assurance and Process Improvement
- Internet of Things (IoT) and Embedded Systems
- Software Economics, Measurements and Quality Metrics
- Automatic Functional and Non-functional Testing

4. Biosciences:

Biosciences track aims to bring together leading academic scientists, researchers and scholars to exchange experiences and research results on different aspects of “Bio-surveillance, Microbial Detection & Countermeasures”. Objective is to explore the collaborations and spark ideas with the aim of developing new projects and technologies. The sub themes include:

- Components and Tools of Effective Bio-surveillance Program
- Bio-surveillance Utility, Effectiveness and Challenges
- Sample Collection Process, Analysis Interpretation, Data Dissemination
- GIS Mapping and Disease Prediction Modeling
- Zoonotic & Vector borne Emerging / Re-emerging Infectious Diseases and Contributing Factors.
- Biological Risk Assessment
- Recent Innovations, Trends, Concerns and Practical Challenges in Lab and Fields based Bio-detection Technologies.
- Advancement in the Treatment, Vaccine Development, Control/ Prevention of Microbes and their Vectors
- Predictive Disease Modeling
- Biosensors’ Development

5. Control & Signal Processing:

The importance of Control & Signal Processing in modern world cannot be over emphasized. Control Systems are seen at work in small and household appliances, large scale industrial plants, very sophisticated and complex autonomous aerospace systems and vehicles. Control system technology has thus driven the engineers to operate at peak of their performance without compromising system stability and integrity. The advent of high



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performance computers and microprocessors has opened up possibilities of design and realization of innovative and more effective control algorithms. It significantly increases capability and performance of control systems. Thus low cost quality products can be designed and realized by alleviating the need for expensive instrumentation and costly components.

Signal processing technique have numerous applications in various contemporary fields such as telecommunication, quantum computing, spectral imaging, video and image processing, sonars, biomedicine, computer vision and seismology. Innovative and powerful algorithms have been developed and implemented in real-time applications on configurable integrated circuits and high performance new generation computers.

The Control and Signal Processing track provides a platform for scientists, engineers and students from universities and industries around the world to presents their research work and innovative ideas to strengthen relations between academia and the industry. Papers of interest include those that describe theory, analytical techniques and latest technological developments.

Topics to be covered in this activity include, but not limited to:

Control

- Aerospace Systems Control
- Nonlinear Systems and Control
- Systems Identification and Adaptive Control
- Optimization and Model predictive control
- Variable Structure and Sliding Mode Control
- Advanced Filtering Techniques
- Multi-sensors Data Fusion
- Fault Diagnostics, Detection and Isolation
- Fault-Tolerant Control
- Guidance, Navigation and Control of Autonomous Systems
- Cooperative Guidance & Control of Autonomous Multi-Agents Formation
- Artificial Intelligence in Guidance, Navigation and Control
- Hardware in the Loop Simulations of Autonomous Systems
- Manufacturing Automation and Robotic control
- Dynamic Modeling and Control of Aero Engines
- Control of Renewable Power Generation Systems and Smart Grids
- Process Control of Chemical and Biological Systems
- Quantum Systems and Control

Signal Processing

- Computer Vision and Graphics
- Statistical Methods and Learning Algorithms
- Remote sensing



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- Big data and Image/ Audio / Text/ Analytics
- Pattern Recognition, Bagging and Boosting Classifiers
- Image Recognition and Tracking
- Medical Imaging
- DSP Related RTOS Issues
- Multidimensional Signal Processing and Speech Recognition
- Sensor Networks
- Hyper spectral and Multi-Spectral Imaging
- Robotic Perception
- 3D Point Cloud Sensing and Processing
- Video Processing and Compression
- Algorithmic Implementation on FPGA/ ASIC/ Embedded Systems
- Quantum Signal Processing
- Signal Processing for Big Data
- Statistical Learning
- Applications of Machine Learning

Special Session on IC DESIGN: This session aims papers on advances in IC design and systems-on-chip.

6. Cyber Security:

The continuous growth of cyber threat landscape in an ever increasing digital world demands investments in cyber security technologies, strong procedures and infrastructures. It is important that research and frameworks for protecting information match the rapid pace of the evolution of the digital platforms and associated evolving cyber threats. Without robust cyber security measures, the consequences of cyber-attacks can be devastating, leading to financial losses, reputational damage, and even loss of lives. In essence, cyber security is a fundamental aspect of 21st century's digital revolution and an indispensable element of the daily life.

The objective of this track is to facilitate collaboration among researchers involved in various aspects of cyber security, with the goal of making significant strides in this field of knowledge and addressing real-world challenges. The track emphasizes research areas that are relevant to current and emerging trends in cyber security with high focus on application of the latest concepts, techniques, and technologies. These areas include the IoT, Big Data, AI applied to Cyber Security, Software Defined Networks, Blockchain Cryptocurrency, and more. Although not exhaustive, the topics of interest include:-

- Emerging Cyber Threats
(Ransomware, Phishing, ATPs and Malware Attacks)
- Threat Intelligence and Incident Response
- Security of Cyber-Physical Systems
- Digital Forensics
- Data Loss Prevention Techniques



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- Cloud Security
- IoT Security
- Security Automation using AI
- Hardware Security
- Supply Chain Security
- AI based Threat Detection and Prevention
- Cryptography
- Quantum Technologies including Post Quantum Cryptography
- Blockchain Security
- Cybersecurity governance

Special Session on Quantum Technology: This session aims papers on advances in Quantum Technologies including Post Quantum Cryptography.

7. Fluid Dynamics:

Fluid dynamics track encompasses all spheres related to applied fluid dynamics. The main theme is to encourage the relevant novel ideas and research work carried out numerically and through experiments. The application areas include flows inspired from nature and flow analysis around various aerodynamic objects. It also covers the flow analysis carried out in automotive, civil, defense and process industries.

Information about the physics of the flow can be obtained from measurements in experimental test facilities or from flow visualization studies. However, there are some limitations and a full picture of flow fields is often hard to obtain from experimental studies. Computational Fluid Dynamics (CFD) is a core research front in fluid dynamics. It is a technique to model and analyze fluid flow using a computer simulation. CFD techniques can be applied to solve industrial flow problems especially in complex flow situations of aerodynamics and hydrodynamics.

The IBCAST provides an opportunity to the local and foreign researchers to benefit from mutual exchange of ideas, discuss their queries and problems with the experts as well as to explore the new avenues in active research fronts. The broader scope of this track covers the following areas:

- Gas Dynamics
- Aerodynamics
- Hydrodynamics
- Industrial and Environmental Fluid Dynamics
- Fluid Structure Interactions
- Static and Dynamic Stability of Flying/Submersible Vehicles
- Turbulence Modeling
- Air Intake Performance
- Experimental Fluid Dynamics
- Multiphase Flows
- Reactive Flows



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- Heat Transfer
- Wind Tunnel – Design, Testing and Visualization

It will also include

- High and Low Speed Wind Tunnel Design – Trends and Considerations
- Design and Calibration of String Balance and other Instrumentation
- Latest Techniques in High and Low Speed Wind Tunnel Testing
- Scale Down Model – Challenges and Limitations
- Visualization Techniques (PIV, PSP etc)
- Captive Trajectory Simulation (CTS) – Challenges and Latest Trends
- Store Release Simulation and Captive Trajectory Systems
- Wind Tunnel and Water Tunnel Experimental Setup Studies

8. Medical Sciences:

Theme of this year is, **“Right Care at the Right Time: Building multi-disciplinary model of care in NCD Management”**. The goal is to increase knowledge and enhance the competence of attendees.

Healthcare delivery is a dynamic and evolving field. New technologies and therapies are emerging almost weekly, enabling life-saving treatment and improving outcomes. With this dynamic nature comes the challenge of providing care that is both safe and effective. The challenge is to ensure that patients receive the right care at the right time, in the most efficient and cost-effective manner possible.

The rising incidence of Non-Communicable Diseases (NCDs) has become a major public health concern in Pakistan. NCDs are chronic diseases that are not transmitted from one person to another, but instead are caused by a combination of genetic, lifestyle, and environmental factors. They include diseases like diabetes, high blood pressure, heart disease, stroke, joint disorders and cancer including gynecological cancers. Pakistan is facing an alarming increase in the incidence of NCDs, with one-third of its population currently suffering from at least one NCD. This trend is expected to continue due to factors like rapid urbanization, changing dietary patterns, sedentary lifestyle, and increasing stress levels.

Objectives

- Define right care at the right time and its impact on outcomes
- Discuss the latest evidence-based approaches to optimize care delivery
- Identify strategies to improve patient satisfaction and experience across care settings
- Discuss technology and other innovations that can facilitate right care at the right time
- Develop approaches to improve provider & stakeholder engagement for improved outcomes
- Role of Aesthetic Dermatology in modern social world

Evidence-Based Approaches to Optimize Care Delivery

- Best practices in care delivery



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- Prevention and early intervention: A focus on primary care
- Therapeutic precision: Advances in personalized medicine

Technology and Innovation

- Telehealth and remote monitoring
- Digital health tools
- Artificial intelligence and machine learning to enhance care delivery

Participants will gain insights into the latest evidence-based approaches, innovative technologies, and patient-centered care practices that can enhance outcomes and patient satisfaction.

9. Underwater Technologies:

The advancement and research in underwater technologies has direct impact on human endeavor to explore the nature. The field of underwater technologies spans over a wide range which includes ocean vehicles, underwater communications, sonar systems, oceanography and has ever increasing role in defense applications. Research areas like marine life preservation, seafloor geological resources and marine pollution hazards are of significant importance for this country which has more than 1000kms of coastline and an exclusive economic zone spread over an area of more than 2,35,000 square km. The Underwater Technologies track of IBCAST provides opportunities for spread of information, exchange of knowledge and novel ideas among the practitioners of various fields of underwater technologies. This time this track invites contributions in following areas:

- Underwater Acoustics
- Ambient Noise Measurement and Modelling
- Acoustic Metamaterials and Measurements
- Underwater Communication and Networking
- Networked Underwater Robotic and Systems
- Applications of Machine Learning in Underwater
- Underwater Internet of things (UW-IoT) based Transducer, Modem and Network Designs
- Big Data Analytics for Underwater Technologies
- Cloud Based Data Models for Underwater WSN
- Challenges and Security Issues in Underwater Wireless Sensor Networks
- Embedded System Design for Underwater Communication
- Underwater Sensors & Transducers
- Sonar Signal / Image Processing
- Array Signal Processing and Array Design for UW applications
- Underwater Detection, Classification and Localization
- Synthetic Aperture Sonar (Active and Passive)
- Sonar Imaging and Displays
- Transducer arrays and Materials
- Sonobuoy Dynamics and Control



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- Sonar and Transducer Calibration and Underwater Standards
- Sonar Performance Measurement and Modelling
- Modem Architecture and Software Defined Modems for UW Communication
- Passive Sonar Tracking for UUV and Diver Detection
- Naval Architecture
- Platform Integration Analysis for Concept Designs
- Autonomous Underwater Vehicles Design
- Navigation Technologies for Autonomous Underwater Vehicles
- Unmanned Underwater Vehicles (UUVs)
- Remotely Operated Vehicles (ROVs)
- Batteries for Underwater Vehicles
- Marine Environment and Oceanography
- Hydrography and Seafloor Mapping
- Marine Renewables & Pile Driving
- Offshore Seismic Monitoring and Mitigation
- Geophysical Exploration & Geo Acoustic Inversion

10. Wireless Communication & Radar:

Microwave Engineering and Electro-magnetics are key technology areas. Many of the modern day electronic gadgets and devices owe their existence to some derivative of electromagnetics and microwave engineering. Radio sets & radio broadcasting, televisions & real time video transmission through satellites, speed monitoring radars to space borne imaging radars, sophisticated avionics to what has become a necessity of contemporary times, cellular communications all stem from advancement in microwave engineering. Historically, it was the advancement in radar development during Second World War that substantiated the potential of microwave engineering. As the products evolved through the corridors of time, technologies associated with this sphere of engineering became pivotal in imparting cutting edge to number of military and civilian equipment. The Wireless Communications and Radar track offers a broad coverage of topics related to RF and microwave technology making it a premier event in this area for scientific and educational community in the country. Our endeavor is to promote research in this key technology area and bring academia and industry closer to bridge this technology gap.

This track also has a unique feature of microwave technology coverage related to civil and military radar. Topics related to systems and applications are covered such as waveform generation; radar signal processing; antenna systems; radar imaging and object classification etc. Another salient feature of this year's activity is a special session on "Multifunction Phased Array Radar Design Challenges". High quality papers reporting on novel solutions on the following topics are encouraged:

Wireless Communication

- Software defined Radios
- Satellite & Space Communication



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- Emerging Wireless Mobile Applications
- Network Centric Warfare
- Electromagnetic Scattering, Channel / Interference Modeling
- Adhoc Networks
- Wireless Technologies in Electro Medical Devices
- Metamaterials, FSSs and Electromagnetic
- Bandgap Structures
- Communication Systems Simulation
- Integrated Transceivers
- Wireless Power Transfer and Energy Harvesting
- Smart Antennas
- MIMO Systems
- Antenna Systems: Theory, Modeling and Measurement
- Internet of Things Near Body Communication

Radar

- AESA Radar
- Radar Performance Modeling / Measurement
- Radar Signal Processing (Algorithms & hardware)
- Phased Array Radar Calibration
- Multifunction Phased Array Radar
- Bistatic / Multi-static Radars
- Analog / Digital Beam Forming
- Ultra Wide Band Radar
- Ground Penetrating Radar (GPR)
- MIMO Radars
- Synthetic Aperture Radars SAR/ ISAR
- Space Time Adaptive Processing (STAP)
- RF / Microwave Circuit Design
- RFICs & MMICs
- Reconfigurable Front-ends
- Active / Passive Device Modeling & circuits
- Computational Electromagnetics
- Radio Imaging including mm-wave and THz Imaging Systems
- RCS Reduction / Stealth Design
- Antenna Design
- Near Field & Far Field Antenna Characterization
- EMC/EMI



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Glimpses of last IBCAST





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Participation Application Form

Latest
Photograph

Copy of CNIC
(Front Side)

Copy of CNIC
Back Side

Dr/Mr/Ms: _____ Name: _____
 CNIC: [][][][][][] - [][][][][][] - [][][] | Passport: _____
 Date of Birth: _____ | Nationality: _____
 Email: _____ | Country of Origin: _____
 Mob: _____ Landline: _____ Fax: _____
 Mailing Address: _____

EDUCATIONAL

University	Highest Degree	Year	Subject
_____	_____	_____	_____
_____	_____	_____	_____

OCCUPATION

Institution	Post	Period
_____	_____	_____
_____	_____	_____

TRACKS OF INTEREST (Select three tracks with priority)

Advanced Materials
 Aerostructures
 AI & Software Technologies
 Biosciences
 Control & Signal Processing
 Cyber Security
 Fluid Dynamics
 Medical Sciences*
 Underwater Technologies
 Wireless Communication & Radar

*Venue of Medical Sciences track is Islamabad

PAPER PRESENTER Yes No

Paper Title: _____

IBCAST Track: _____ Paper ID: _____

REGISTRATION FEE

■ Pakistani Participants & CESAT Speakers	Rs. 15,000
■ MS Track Participants	Rs. 10,000
■ Students from Pakistani Universities	Rs. 8,000
■ Foreign Participants	\$ 500 USD
■ Students from Foreign Universities	\$ 300 USD



Last Date of Application for Participation is **30th June, 2023**

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