

CYBER SECURITY TRACK 22nd IBCAST-2025 (19-22 AUGUST, 2025).

TECHNICAL PROGRAM (Conducted)

Day-1: 19 Aug	Venue: Rawal Hall RAMADA Hotel Murree Hills Updated: 22 August 2025		Lunch Break: 1300-1400 Hrs.	CONFERENCE REGISTRATION.	Break: 1530-1600 Hrs.	Session-A (1600-1830 Hrs.)
	<p><u>RECITATION FROM THE HOLY QURAN, WELCOME ADDRESS</u> (10 Mins)</p> <p><u>INVITED TALK-1 (FOREIGN): PROF. DR. KEMAL BIÇAKCI.</u> Istanbul Technical University (ITU), Istanbul, TURKIYE. TOPIC: Defending the Future: The New Era of Cybersecurity with AI. (45 Mins : 1610-1655 Hrs)</p> <p><u>INVITED TALK-2 (FOREIGN): PROF. DR. SEDAT AKLEYLEK.</u> University of Tartu, Tartu, ESTONIA. TOPIC: Advances in Post-Quantum Cryptography Standardization. (45 Mins : 1655-1740 Hrs)</p> <p><u>CONTRIBUTED PAPERS</u> ID-82, ID-109, ID-152 (1740-1825 Hrs)</p>					
Day-2: 20 Aug	Session-B1 (0930-1100 Hrs.)	Session-B2 (1130-1300 Hrs.)	Break: 1300-1400 Hrs.	Session-B3 (1400-1530 Hrs.)	Break: 1530-1600 Hrs.	Session-B4 (1600-1830 Hrs.)
	<p><u>INVITED TALK-3 (FOREIGN):</u> <u>PROF. DR. ORHUN KARA.</u> IZTECH Izmir Institute of Technology, Izmir, TURKIYE. TOPIC: How Secure Is AES? Insights from Modern Cryptanalysis. (45 Mins : 0930-1015 Hrs)</p> <p><u>CONTRIBUTED PAPERS</u> ID-253, ID-498, ID-244 (1015-1100 Hrs) NS NS</p> <p><u>INVITED TALK-4 (FOREIGN):</u> <u>MR. EVGENY GONCHAROV.</u> Kaspersky, RUSSIA. TOPIC: From the Obvious to the Incredible: Sources of Cyber Threats to Industrial Enterprises. (45 Mins : 1130-1215)</p> <p><u>CONTRIBUTED PAPERS</u> ID-239, ID-170, ID-473 (1215-1300 Hrs) NS</p> <p><u>INVITED TALK-5 (FOREIGN):</u> <u>ASST. PROF. DR. DENIZ DAHMAN.</u> Istanbul Gelisim University, Istanbul; Dahman's Phi Services, TURKIYE. TOPIC: TBA. (45 Mins : 1400-1445 Hrs)</p> <p><u>CONTRIBUTED PAPERS</u> ID-144, ID-155, ID-196 (1445-1530 Hrs)</p> <p><u>TECHNICAL WORKSHOP (FOREIGN)</u> (120 Mins : 1600-1800 Hrs)</p> <p>WORKSHOP TRAINER: <u>PROF. DR. ORHUN KARA.</u> IZTECH Izmir Institute of Technology, Izmir, TURKIYE. TOPIC: Impossible and truncated differential attacks on AES.</p> <p><u>CONTRIBUTED PAPERS</u> ID-483, ID-299 (1800-1830 Hrs)</p>					
Day-3: 21 Aug	Session-C1 (0930-1210 Hrs.)		Break: 1300-1400 Hrs.	Session-C2 (1400-1620 Hrs.)		
	<p><u>INVITED TALK-6 (FOREIGN): PROF. DR. KEMAL BIÇAKCI.</u> Istanbul Technical University (ITU), Istanbul, TURKIYE. TOPIC: Post-Quantum Cryptography in Practice: From NIST Standards to White-Box Secure Implementations (45 Mins : 0930-1015 Hrs)</p> <p><u>INVITED TALK-7 (FOREIGN): MR. EVGENY GONCHAROV.</u> Kaspersky, RUSSIA. TOPIC: One Ring to Rule'em All. Cybersecurity im(Maturity) of OT-related Product Vendors. (45 Mins : 1015-1100 Hrs)</p> <p><u>INVITED TALK-8 (LOCAL): ASSOC. PROF. DR. MUHAMMAD HANIF DURAD.</u> PIEAS, Pakistan. TOPIC: Cybersecurity Ecosystem – Understanding the Landscape. (30 Mins : 1100-1130 Hrs)</p> <p><u>CONTRIBUTED PAPERS: ID-27, ID-31</u> (1130-1200 Hrs)</p> <p><u>CLOSING REMARKS</u> (10 Mins : 1200-1210 Hrs)</p> <p><u>PLENARY TALKS BY</u> <u>FOREIGN SPEAKERS</u> (Details to be announced soon).</p> <p>NS= No Show (ID-170, ID-244, ID-498)</p>					

TOTAL TIME ALLOCATED FOR CONTRIBUTED PAPERS = 15 Mins Each.

CYBER SECURITY TRACK, 22nd IBCAST-2025 (19-22 AUGUST, 2025).

DAY-1: 19 AUGUST, 2025.

	Time (Hrs)	TOPIC		SPEAKER
SESSION-A	1600-1610	RECITATION FROM THE HOLY QURAN WELCOME ADDRESS AND CONFERENCE OPENING REMARKS		DR. MUREED HUSSAIN – PAKISTAN. Program Coordinator, Cyber Security Track. DR. SHIRAZ AHMAD – PAKISTAN. Deputy Program Coordinator, Cyber Security Track.
	1610-1655	INVITED TALK-1: Defending the Future: The New Era of Cybersecurity with AI.		PROF. DR. KEMAL BIÇAKCI – TURKIYE. Head Cyber Security Vocational School and Informatics Institute, Istanbul Technical University, TURKIYE. Chairman of the Board at SECURIFY, TURKIYE.
	1655-1740	INVITED TALK-2: Advances in Post-Quantum Cryptography Standardization.		PROF. DR. SEDAT AKLEYLEK – ESTONIA. Institute of Computer Science, Chair of Security and Theoretical Computer Science, University of Tartu, Tartu, Tartumaa, ESTONIA.
	1740-1755	ID-82	Secure Smart Contracts for IoT Applications using Neural Cryptography	Namra Tahir, The University of Lahore, Lahore, PAKISTAN.
	1755-1810	ID-109	Protocol-Level Enhancements of B92 for Efficient QKD in Hybrid Quantum-Classical Networks	Yasir Munir, National University of Sciences and Technology (NUST), Islamabad, PAKISTAN.
	1810-1825	ID-152	Quantum Circuit Realization of PRESENT-80: A Feasibility Study Using IBM AER	Maham Shahzadi, NUST, Islamabad, PAKISTAN.
	SESSION AND DAY CLOSING			

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DAY-2: 20 AUGUST, 2025.

	Time (Hrs)	TOPIC		SPEAKER
SESSION-B1	0930-1015	INVITED TALK-3: How Secure Is AES? Insights from Modern Cryptanalysis.		PROF. DR. ORHUN KARA – TURKIYE. IZTECH Izmir Institute of Technology, Izmir, TURKIYE.
	1015-1030	ID-253	Detecting Multilingual Fake Tweets Using Transformer Based Architectures	Warda Maryam, Air University, Islamabad, PAKISTAN.
	1030-1045	ID-498	Advanced Malware Detection for Proactive Defense Against Evolving Cyber Threats	Raad Ali Hashmi, Bahria University, Islamabad, PAKISTAN.
	1045-1100	ID-244	ADOF: Audio-Driven OSINT Framework for Anti-Military Sentiment Detection	Muhammad Ayub, Air University, Islamabad, PAKISTAN.
TEA BREAK: 1100-1130 Hrs.				
SESSION-B2	1130-1215	INVITED TALK-4: From the Obvious to the Incredible: Sources of Cyber Threats to Industrial Enterprises.		MR. EVGENY GONCHAROV – RUSSIA. HEAD ICS CERT, Kaspersky, RUSSIA.
	1215-1230	ID-239	AI-Driven Detection of DDoS Attacks on Cloud Services for Securing the Digital Marketplace	Rizwan Saeed, CESAT, Islamabad, PAKISTAN.
	1230-1245	ID-170	Fortifying the Perimeter: Honeypot Strategies for Edge Network Devices	Osama Nusair, Birmingham City University, UK.
	1245-1300	ID-473	Lightweight Context Based DOS/DDOS Attack Detection	Muhammad Shaheer Khan, FAST NUCES, Islamabad, PAKISTAN.
LUNCH & PRAYER BREAK: 1300-1400 Hrs.				
SESSION-B3	1400-1445	INVITED TALK-5: TBA.		ASST. PROF. DR. DENIZ DAHMAN – TURKIYE. Faculty of Engg & Architecture, Software Engg, Istanbul Gelisim University, Istanbul, TURKIYE.
	1445-1500	ID-144	Investigating Cross-Diffusion Model Disparities in Deepfake Image Detection	Sehrish Bibi, CESAT, Islamabad, PAKISTAN.
	1500-1515	ID-155	Unified Healthcare Data Governance Framework (UHDGF): Integrating Security, Privacy, and Identity Management	Asjad Shahzad, NUST, Islamabad, PAKISTAN.
	1515-1530	ID-196	DEPTH: A Bloom Filter-Based Architecture for Adaptive Password Authentication Throttling	Inam Ul Haq, CESAT, Islamabad, PAKISTAN.
TEA BREAK: 1530-1600 AND 1730-1800 Hrs.				
SESSION-B4	1600-1800	TECHNICAL WORKSHOP: Impossible and truncated differential attacks on AES.		PROF. DR. ORHUN KARA – TURKIYE. IZTECH Izmir Institute of Technology, Izmir, TURKIYE.
	1800-1815	ID-483	CODEGAURD: Beyond Detection - A Neural Framework for CWE Classification and Fix Generation	Hassan Javed, CESAT, Islamabad, PAKISTAN.
	1815-1830	ID-299	ANODYNE: A Misuse-Resistant Cryptographic Library Interface	Sara Qamar, CESAT, Islamabad, PAKISTAN.
DAY CLOSING				

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DAY-3: 21 AUGUST, 2025.

	Time (Hrs)	TOPIC		SPEAKER	
SESSION-C	0930-1015	INVITED TALK-6: Post-Quantum Cryptography in Practice: From NIST Standards to White-Box Secure Implementations.		PROF. DR. KEMAL BIÇAKCI – TURKIYE. Head Cyber Security Vocational School and Informatics Institute, Istanbul Technical University, TURKIYE. Chairman of the Board at SECURIFY, TURKIYE.	
	1015-1100	INVITED TALK-7: One Ring to Rule'em All. Cybersecurity im(Maturity) of OT-related Product Vendors.		MR. EVGENY GONCHAROV – RUSSIA. HEAD ICS CERT, Kaspersky, RUSSIA.	
	1100-1130	INVITED TALK-8: Cybersecurity Ecosystem – Understanding the Landscape.		ASSOC. PROF. DR. MUHAMMAD HANIF DURAD. DCIS, PIEAS, PAKISTAN.	
	1130-1145	ID-27	Design and Implementation of a protocol independent Polarization Analyzer for Polarization critical Quantum Channels		Luqman Abbas, CESAT, Islamabad, PAKISTAN.
	1145-1200	ID-31	A Proficient Approach for Analyzing Polarization Drift over Telecom Fiber for Quantum Key Distribution (QKD) Applications		Sundus Qayyum, CESAT, Islamabad, PAKISTAN.
	1200-1210	THANKS AND TRACK ACTIVITY CLOSING REMARKS		DR. MUREED HUSSAIN – PAKISTAN. Program Coordinator, Cyber Security Track. DR. SHIRAZ AHMAD – PAKISTAN. Deputy Program Coordinator, Cyber Security Track.	
SPECIAL SESSION OF PLENARY TALKS (1400-1620 Hrs) (Details will be announced soon, separately.)					
CLOSING OF CONFERENCE TECHNICAL ACTIVITY AND DAY CLOSING: 1620 Hrs.					