

IEEE 2nd Annual
International Conference On
CYBER WARFARE & SECURITY 2021

November 23rd and 24th 2021, PAFSOM Arena,
Sector E-9, Islamabad, Pakistan

OPENING CEREMONY (SAPPHIRE HALL)

10:00 AM - 10:30 AM	Guests to be Seated
10:30 AM - 10:35 AM	National Anthem and Recitation of Holy Quran
10:35 AM - 10:40 AM	Welcome Address by Vice Chancellor Air University
10:40 AM - 10:45 AM	Speech by PAF Director General C ¹
10:45 AM - 10:55 AM	Introductory Remarks by Director National Center for Cyber Security (NCCS)
10:55 AM - 11:00 AM	Keynote Address by International Speaker
11:00 AM - 11:05 AM	Speech by Executive Director HEC
11:05 AM - 11:10 AM	Curtain Opening Ceremony of the National Cyber Security Academy (NCSA)
11:10 AM - 11:20 AM	Address by Chief Guest
11:20 AM - 11:30 AM	Visit of Industry Exhibit/Lab to Market Event by Chief Guest
11:30 AM - 11:40 AM	Group Photo and Departure of Chief Guest
11:40 AM - 12:00 PM	Morning Tea for participants

DAY 1 | TUESDAY, 23rd November | ICCWS-2021

Sapphire Hall (Keynote Talk)					Sapphire Hall (Industrial Exhibition)	
12:00 PM - 12:45 PM	Keynote Speaker: Prof. Dr. Hafiz Malik, University of Michigan-Dearborn, USA Topic: Cyber security for Connected and Autonomous Vehicles: Challenges & Solutions				Cyber Security Industry Exhibition NCCS Lab To Market Event	
01:00 PM - 02:00 PM	Lunch and Prayer Break					
02:00 PM - 03:00 PM	Sapphire Hall (Keynote Talk)	Business Room (Track 1) (ML & AI aided Security and Privacy)	Margalla Room (Track 2) (Web & Software Security)	Diplomat Room (Track 3) (Hardware and Networks Security)		Shaheen Room (Track 4) (Cryptography, Cryptanalysis & Steganography)
	Session A-0	Session A-1 (15 min for each paper)	Session A-2 (15 min for each paper)	Session A-3 (15 min for each paper)		Session A-4 (15 min for each paper)
02:00 PM - 02:45 PM	Keynote Speaker: Dr. Zahri Yunos COO, CyberSecurity Malaysia, MALAYSIA Topic: APT Malware Threats: Case Studies in Malaysia	Paper 1: Application Profiling from Encrypted Traffic Paper 2: Email Classification using LSTM: A Deep Learning Technique Paper 3: A Generic Machine Learning Approach for IoT Device Identification	Paper 4: Efficient Identification of Race Condition Vulnerability in C code by Abstract Interpretation and Value Analysis Paper 5: Reed: An Automated Scalable Multi-language Vulnerability Dataset Generator for Open Source Software Paper 6: Secure Internet Voting using Blockchain Technology	Paper 7: SSD Forensic: Evidence Generation and Forensic Research on Solid State Drives Using Trim Analysis Paper 8: A Privacy-Preserving Cross-domain Network access Services Using Sovrin Identifier Paper 9: Endpoint Detection & Response A Malware Identification Solution for Enterprises		Paper 10: Image Steganography using Cryptographic Primitives Paper 11: SHA-3 Algorithm-based Authentication Scheme for Vehicular Ad-hoc Networks Paper 12: Decoy state HD QKD system for secure optical communication
02:45 PM - 03:30 PM	Keynote Speaker: Prof. Dr. Awais Rashid, University of Bristol, UK Topic: Developing a programme of research on privacy, harm reduction and adversarial influence online: The REPHRAIN Centre					
03:30 PM - 04:15 PM	Briefing on Cyber Technology Park for International and National Companies					
04:15 PM - 5:00 PM	Panel Discussion	Topic: Cyber Security of FinTech Industry Moderator: Mr. Jawad Khalid Mirza (Chairman Cyber Security Forum, Pakistan Banking Association) Mr. Muhammad Maad (CISO Faysal Bank), Mr. Navaid Naqvi (Head of IT Governance, Risk and Compliance, Habib Metro Bank), Mr. Syed Abdul Qadir (Executive Director Technology & Cyber Security Risk Assurance, A.F. Ferguson & Co.), Mr. Umair Aziz (Head Info. Security & IT Governance, SadaPay)				
07:00 PM - 8:00 PM	CONFERENCE DINNER (for invitees only)					



DAY 2 | WEDNESDAY, 24th November | ICCWS-2021

09:00 AM - 04:15 PM		Sapphire Hall (Keynote Talk)				Sapphire Hall (Industrial Exhibition)	
09:15 AM - 10:00 AM		Keynote Speaker: Dr. Salman Baset, Product Security, MongoDB, USA Topic: State of Cloud Security and its Future				Cyber Security Industry Exhibition NCCS Lab To Market Event	
10:00 AM - 11:30 AM		Sapphire Hall (Tech Talks)	Emerald Hall (Keynote Talks)	Margalla Room (Track 5) (Malware Analysis and Operating Systems Security)	Diplomat Room (Track 6) (Cyber Physical Systems and Critical Infrastructure Security)		Shaheen Room (Track 7) (Social Media Analytics and Useable Security)
		Session B-0 (30 min each)	Session B-1 (45 min each)	Session B-2 (15 min for each paper)	Session B-3 (15 min for each paper)		Session B-4 (15 min for each paper)
10:00 AM - 10:30 AM		Topic: Emerging technologies of intelligent era and the cyber security challenges Speaker: Mr. Kashif Iqbal, Huawei Technologies, Pakistan	Topic: Understanding Microsoft Approach Towards Cybersecurity Keynote Speaker: Mr. Razi Rais, Microsoft, USA	Paper 13: Enhancement in Buffer Overflow (BOF) Detection Capability of Cppcheck Static Analysis Tool Paper 14: Comparative Analysis of Anti-Virus Evasion Malware Creator Tools of Kali Linux with Obfuscation Model Paper 15: A Deep Learning based Malware Images Classification	Paper 16: Implementation of Cyber-Physical Systems with Modbus Communication for Security Studies Paper 17: Modeling and Simulation Challenges for Cyber Physical Systems from Operational Security Perspective Paper 18: Electromagnetic Pulse (EMP): A Study of General Trends, Simulation Analysis of E1 HEMP Coupling and Protection Strategies Paper 19: Physical Layer Authentication Security in Radio Communication- Emerging Trends		Paper 20: A Deep Ensemble Model for News Classification on Social Media Paper 21: Depression Analysis of social media activists using the Gated Architecture Bi-LSTM
10:30 AM - 11:00 AM		Topic: Incident Readiness and Response Speaker: Mr. Ahrar Naqvi, Ebryx Pvt Ltd					
		(Tech Talks)	(Keynote Talks)	Workshop - 1	Workshop - 2		Workshop - 3
11:00 AM to 11:30 AM		Topic: Warrior mindset & functional development for the irregular warfare side of future cyber struggle Speaker: Mr. Kubilay Onur Gungor, Cyber Struggle, Turkey	Topic: Big Data Analytics, Security and Privacy Issues in Smart Grid Speaker: Prof. Dr. Seref SAGIROGLU, Gazi University, Turkey				
11:30 AM to 12:00 PM		Topic: Security Services Chaining Speaker: Mr. Taylan Esen, Angora Networks Turkey	Topic: Organizational Cyber Security Transformation Speaker: Mr. Nahil Mehmood, Delta Tech, Pakistan	Topic: A workshop on using cryptographic tools to secure your data Speaker: Dr. Hanif Durad, Mr. Aftab UI Haq (CIPMA Lab, PIEAS)	Topic: A workshop on Bug Bounty Hunting Speaker: Mr. Syed Khizer UI Haque (ISQT Lab, NED UET Karachi)		Topic: Web Applications Security Testing Speaker: Mr. Mohammad, Dr. Sadeeq Jan (ISS Lab, UET Peshawar)
12:00 PM to 12:30 PM		Topic: Context-awareness security in IoT Speaker: Prof. Dr. Ghalib Shah, IoT Security Lab, UET Lahore	Topic: National cybersecurity challenges, coordination and cyber protection of critical infrastructure in Hungary Speaker: Dr. Zoltan Rajnai, National Cyber Security Coordinator, Hungary				
12:30 PM to 01:00 PM		Topic: Cybersecurity of industrial Control Systems (ICS) Speaker: Dr. Ghulam Mustafa, CIPMA Lab, PIEAS					
Lunch and Prayer Break (60 minutes)							

02:00 PM to 03:30 PM	Sapphire Hall (Tech Talks)	Emerald Hall (Keynote Talks)	Margalla Room Parallel Session C-1 Workshop-4	Diplomat Room Parallel Session C-2 Workshop-5	Shaheen Room Parallel Session C-3 Workshop-6	Sapphire Hall (Industrial Exhibition)
02:00 PM to 02:45 PM	Speech by Dr. Ramzan Bayindir Vice Rector Gazi University, Turkey Topic: DDOS Attack Detection: Supervised and Unsupervised Machine Learning Approaches Speaker: Dr. Asad Arfeen NED UET Karachi	Topic: The Cyber Security of Rail Speaker: Dr. Richard Thomas University of Birmingham, UK	Topic: Re-imagining PKI with Blockchain Technology Speaker: Dr. Umar Janjua, Mr. Zubair Khalid (Blockchain Security Lab, ITU Lahore)	Workshop-5 Topic: Vulnerability Assessment of Embedded Devices using Firmware Analysis Speaker: Ms. Maliha Safdar (NCSAEL Lab, MCS Rawalpindi)	Workshop-6 Topic: OSINT for Competitive Technology Intelligence Speaker: Mr. Hassan Qadeer (CRC Lab, Bahria University Islamabad)	Cyber Security Industry Exhibition NCCS Lab To Market Event
02:45 PM to 03:30 PM	Topic: Assuring Cloud Confidence through Searchable Encryption Speaker: Dr. Shahzaib Tahir MCS, NUST	Topic: Cybersecurity Challenges for Mobility and Transport Infrastructure Speaker: Prof. Dr. Siraj Sheikh Coventry University, UK				
03:30 PM to 04:15 PM	Panel Discussion	Topic: Pakistan Cyber Security Industry - Strategies to enhance global outreach and boosting exports Moderator: Mr. Ahrar Naqvi (CEO Ebryx Pvt. Ltd) Mr. Junaid Imam (Member IT, MoITT), Mr. Tauseef Aslam (Cluster BSO Emerging Asia, Telenor), Mr. Asad Effendi (CEO Secure Networks), Mr. Barkan Saeed (Central Executive Committee, P@SHA), Dr. M. Hassan Islam (CISO NADRA),				
Closing Ceremony ICCWS-2021						
04:30 PM - 04:35 PM	National Anthem and Recitation from Holy Quran					
04:35 PM - 04:40 PM	Keynote Address					
04:40 PM - 04:50 PM	Concluding Remarks by Director National Center for Cyber Security (NCCS)					
04:50 PM - 04:55 PM	Address by Vice Chancellor Air University					
04:55 PM - 05:00 PM	Address by Executive Director HEC					
05:00 PM - 05:20 PM	Distribution of Certificates and Souvenirs					
05:20 PM - 05:25 PM	Address by Chief Guest					
05:25 PM - 05:30 PM	Vote of Thanks by VCAS					
05:30 PM - 06:30 PM	Refreshment					



National Centre for Cyber Security, Air University, Sector E-9, Islamabad, Pakistan

✉ info@nccs.pk 🌐 www.nccs.pk ☎ +92 (51) 9153655