



1st Annual

International Conference On **CYBER WARFARE & SECURITY**



CONFERENCE PROGRAM

DAY 1 | TUESDAY, 20th October 2020 | ICCWS-2020

Opening Ceremony

09:30 AM - 10:00 AM	Meeting Room Open (Participants Registration, Joining & Opening)
10:00 AM - 10:05 AM	Recitation from Holy Quran
10:05 AM - 10:20 AM	Introductory Remarks by Prof. Dr. Kashif Kifyat, Director NCCS
10:20 AM - 10:30 AM	Chief Guest's Address
10:30 AM - 10:40 AM	Key Note Speech by: Fred Baker, ICANN RSSAC Chair, USA
10:40 AM - 10:50 AM	Key Note Speech by: Andrey Golov, CEO Security Code, Russia
10:50 AM - 11:00 AM	Key Note Speech by: Dr. Mehmet Akif NACAR, CEO HAVELSAN, Turkey
11:00 AM - 11:05 AM	Address by Air Marshal Javaid Ahmed HI (M) (Retd), Vice Chancellor Air University

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11:10 AM - 12:45 PM	Main Room			
11:10 AM - 11:55 AM	Keynote Speaker: Mr. Fred Baker, ICANN RSSAC Chair/ Former IETF Chair, USA Topic: Management of Security in the Domain Name System			
12:00 PM - 12:45 PM	Keynote Speaker: Dmitri Zryachikh, CTO Security Code, Russia Topic: Russian Semiconductor / Microelectronics Industry Overview			
12:50 PM - 01:40 PM	Main Room Track - I (ML & AI Aided Security & Privacy Solutions)	Room 2 Track - II (Cryptology and Cryptanalysis)	Room 3 Track - III (Embedded Systems, IoT and CPS Security)	Room 4 Track - IV (Digital Forensics & Steganography)
	Parallel Session A-1 (15 mins for each Presentation)	Parallel Session A-2 (15 mins for each Presentation)	Parallel Session A-3 (15 mins for each Presentation)	Parallel Session A-4 (15 mins for each Presentation)
12:50 PM - 01:40 PM	Paper 1: Cyber Threat Detection Using Machine Learning Techniques: A Performance Evaluation Perspective Paper 2: Robust Early Stage Botnet Detection using Machine Learning Paper 3: Malware Classification Framework using Convolutional Neural Network	Paper 4: A Key Transport Protocol for Advance Metering Infrastructure (AMI) Based on Public Key Cryptography Paper 5: Secure Mobile Sensor Data Transfer using Asymmetric Cryptography Algorithms	Paper 6: Identifying Mirai-Exploitable Vulnerabilities in Internet of Things (IoT) Firmware Through Static Analysis Paper 7: Lightweight Encryption Algorithm Implementation for Internet of Thing Application Paper 8: Elixir: A 128-bit Stream Cipher Protocol for Lightweight IoT Devices	Paper 9: Nondeterministic Secure LSB Steganography for Digital Images Paper 10: An Efficient Forensic Approach for Copy-move Forgery Detection via Discrete Wavelet Transform Paper 11: Byte-Level Object Identification for Forensic Investigation of Digital Images
01:40 PM - 2:10 PM	Lunch and Prayer Break (30 Minutes)			
02:15 PM - 03:00 PM	Keynote Speaker: Prof. Siraj Shaikh, Coventry University, UK Topic: Cyber-Physical Systems Security: Research Challenges and Opportunities			
03:05 PM - 03:50 PM	Keynote Speaker: Prof. Olaf Maennel, Tallinn University of Technology, Estonia Topic: Critical Infrastructure Protection: An Aviation Cybersecurity Perspective			
04:00 PM - 5:00 PM	Panel Discussion Cyber Laws, Cyber Diplomacy and Security of International Cyber Space			



DAY 2 | Wednesday 21st October 2020 | ICCWS 2020

09:00 AM - 09:05 AM	Opening of the day with brief overview of full day conference plan						
09:05 AM - 10:00 AM	Keynote Speaker: Prof. Vern Paxson, UC Berkley, USA Topic: Finding Very Damaging Needles in Very Large Haystacks						
10:05 AM - 11:35 AM	Main Room		Room 1 Track - V		Room 2	Room 3	Room 4
	Tech Talks by Industry Expert		(Web & Big Data Security)		Parallel Session C-1	Parallel Session C-2	Parallel Session C-3
	Invited Talks (45 minutes for each Speakers)		Parallel Session C-0 (15 Mins for Each Paper Presentations)		Workshop - 1	Workshop - 2	Workshop - 3
	Talk 1	Trends and challenges of Industrial Cybersecurity highlighted by Covid-19 pandemic by Mr. Evgeny Goncharov, <i>Head of Kaspersky ICS CERT</i>	Paper 12: Vulnerabilities and Digital Violations in Software Products: Logistic Regression Analysis Paper 13: Web Server Attack Detection using Machine Learning Paper 14: An Enhanced and Secure Multiserver-based User Authentication Protocol Paper 15: Improving Discrimination Accuracy Rate Of DDoS Attacks and Flash Events		Topic:	Topic:	Topic:
Talk 2	Post Quantum Cryptographic Resistance by Mr. Abdullah A. ERTEN, <i>Product Manager, HAVELSAN</i>			Network Security Monitoring Using IDS	Threat Modeling for IoT platforms	Layer 7 Protocol Extractions	
11:40 AM - 01:10 PM	Talk 3	Its Time to Adopt a Zero-Trust Architecture by Mr. Ahrar Naqvi <i>CEO Ebryx Pvt. Ltd Pakistan</i>	Room 1 Track - VI (Software Security)		Resource(s):	Resource(s):	Resource(s):
	Talk 4	Challenges of Digital Forensics by Ms. Jean Daka, <i>Director Deloitte, Belgium</i>	Paper 16: Analysis of Fileless Malware and its Evasive Behavior Paper 17: Automatic Yara Rule Generation Paper 18: An Enhanced SIP Authentication Protocol for Preserving User Privacy Paper 19: Cluster Analysis and Statistical Modeling: A Unified Approach for Packet Inspection		Dr. Faisal Bashir	Dr. Ghalib Shah, Dr. Ubaid Fayyaz Mr. Bilal Imran	Mr. Najm us Siraj Mr. Baqir Kazmi
					CRC Lab, Bahria University, Islamabad	<i>IoT Security Lab, UET Lahore</i>	<i>DPI Lab, UET Taxila /CASE</i>
01:10 PM - 01:50 PM	Lunch and Prayer Break						



02:00 PM - 04:00 PM	Main Room		Room 1 Track - VII (Hardware, Infrastructure & 5G Security)	Room 2	Room 3	Room 4
	Invited Talks		Parallel Session C-4 (15 Mins for Each Paper Presentations)	Parallel Session C-4 Workshop - 4	Parallel Session C-5 Workshop - 5	Parallel Session C-6 Workshop - 6
02:00 PM - 02:30 PM	Talk 5	Building Effective Cyber Threat Intelligence Programs by Mr. Mahir Mohsin <i>CEO TISS (Pakistan)</i> 30 minutes	Paper 20: Design and Analysis of Secure RoF Based Communication in 5G Fronthaul Paper 21: Detection of Slow Port Scanning Attacks Paper 22: Role of User and Entity Behavior Analytics in Detecting Insider Attacks Paper 23: Hardware-Assisted Isolation Technologies: Security Architecture and Vulnerability Analysis	Topic: Art of Rooting and Flashing Android OS Resource(s): Mr. Mudassar Waheed	Topic: Networks and Communication Security with Linux Resource(s): Mr. Jahanzaib Shahid	Topic: A Workshop on Malware Analysis Resource(s): Ms. Faiza Babar, Ms. Umm-e-Hani
02:35 PM - 03:15 PM	Talk 6	State of Cyber Security by Mr. Murat Huseyin CANDAN <i>CEO Barikat Cyber Security (Turkey)</i> 40 minutes				
03:15 PM - 04:05 PM	Panel Discussion	Cyber Security Challenges in Digital Transformation: Post Covid-19 Era (Stakeholders Discussion) 50 minutes		DNS Lab, Air University Islamabad	NCSAEL Lab, MCS-NUST Rawalpindi	<i>CIPMA Lab,</i> <i>PIEAS</i>

Closing Ceremony

04:10 PM - 04:15 PM	Meeting Room Open (Participants Registration, Joining & Opening)
04:15 PM - 04:20 PM	Recitation from Holy Quran
04:20 PM - 04:35 PM	Concluding Remarks by Prof. Dr. Kashif Kifyat, Director NCCS
04:35 PM - 04:40 PM	Address by Air Marshal Javaid Ahmed HI (M) (Retd), Vice Chancellor Air University
04:40 PM - 04:50 PM	Chief Guest's Address
04:50 PM - 05:00 PM	Closing Remarks and Thank you Note

Register Now at: www.nccs.pk/activities/conference/conference-online-registration before 19th October 2020





ICCWS 2020

ORGANIZING TEAM

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EVENT DETAILS

When: October 20th - 21st 2020, 09:00 am-05:00 pm (GMT+5)

Where: Online, Live on Zoom / Social Media

Inquiry: iccws.secretariat@nccs.pk
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www.nccs.pk
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