

7th International Conference on Cyber Security and Privacy in Communication Networks (ICCS) 2021

https://iccs2021.iaasse.org/

Joining Instructions: All Sessions will be held on MS Teams. Download and install <u>Microsoft Teams</u> for the best experience or use web app. (Session links will be emailed to the registered participants.)

GMT London	DAY 1 – Thursday 9 th December 2021
9.45 – 10.00	Welcome and Pre - Conference Registrations
10.00 – 11.00	Keynote Speech - Professor Mohammad Hammoudeh, SMIEEE, MCIIS
	Title - Digital forensics in emerging technologies, the cases of Blockchain and the
	Internet of Things
11.00	Day 1 – Morning Session (Cyber Innovation Track) 11AM – 2.40 PM
	Session Chair: Dr. Usman Muhammad
	University of South Wales
11.00 – 11.20	Fully Integrated Software Defined Networking (SDN) Testbed using Open-source Platforms
	(Damitha Rathnamalala, Pubudu Milan, Inosha Dilhani and Eranda Jayatunga)
11.20 – 11.40	Smart Boarding System with e-Passports for Secure and Independent Operability
	(Mohamed Azman and Kunal Sharma)
11.40 – 12.00	An Enhanced FFT Algorithm: Framework for Keystrokes Acoustic Emanations Denoising
	Approach on Real-Time Environment
	(Suleiman Ahmad, John Kolo Alhassan, Shafi'l Muhammad Abdulhamid, Suleiman Zubair)
12.00 – 12.20	Intrusion Detection System based on RNN Classifier for feature reduction
	(Bhushan Deore and Surendra Bhosale)
12.20 – 12.40	Network Communication Encoding: A Study for Authentication Protocols
	(Tejaswini Apte, Priti Kulkarni)
12.45 – 13.35	Lunch
13.35	Day 1 – Afternoon Session (Cyber Physical Systems Track) 1.35PM – 2.35 PM
	Session Chair: <u>Dr. Elochukwu Ukwandu - Cardiff Metropolitan University</u>
13.35 – 13.55	Lessons Learned from a Comparative Analysis of Counterintelligence and Insider Threat
	Mitigation Case Studies in Nuclear Facilities
	(Noelle Camp)
44.55 44.45	Threat modelling of Cyber Physical Systems: A real case study based on Window
14.55 – 14.15	Cleaning Business
14.15 – 14.35	(Sion Brown, Stephen Fox, Chaminda Hewage and Imtiaz Khan)
	Conceptual Framework for cybersecurity Resilience Maturity Assessment Model for Critical National Information Infrastructure
	(Victor Emmanuel Kulugh)
14.40 – 15.00	Tea Break
15.00	Day 1 – Evening Session (Cloud Security Track) 3PM – 4.20 PM
	Session Chair: Dr. Chaminda Hewage - Cardiff Metropolitan University
15.00 – 15.20	Provable data possession (PDP) and Proofs of retrievability (POR) of current big user data
	(Leuan Walker, Chaminda Hewage and Ambikesh Jayal)
	An Efficient and Secured Vehicular Networks based on IoT and Cloud Computing
15.20 – 15.40	(Hesham Elzouka)
15.40 – 16.00	Securing the Kubernetes Control and Data Plane
	(John Jeyasekaran, Edmond Prakash and Chaminda Hewage)
	End of Day 1











GMT London	Day 2 – Friday 10 th December 2021
9.30	Day 2 – Morning Session 9.30AM – 12.40 PM
9.30	(Data Protection Track)
	Session Chair: <u>Dr. Pardeep Kumar</u>
	Swansea University
09.30 - 09.50	The normative power of the GDPR: a case study of data protection laws of South Asian countries
	(Vibhushinie Bentotahewa, Chaminda Hewage and Jason Williams)
09.50 - 10.10	An efficient Intrusion detection system for IoT
	(Naveen Saran and Nishtha Kesswani)
10.10 – 10.30	Cybersecurity, Data Protection and Blockchain: Current Challenges
	(Vinden Wylde, Nisha Rawintharan, John Lawrence Jeyasekaran, Rushil Balasubramanian,
	Edmond Prakash, Ambikesh Jayal, Imtiaz Khan, Chaminda Hewage, Jon Platts)
10.30 – 10.50	An explorative study into the importance of defining and classifying cyber terrorism in
	the United Kingdom
	(Victoria Jangada Correia)
10.50 – 11.00	Tea Break
11.00	(Malware Analysis Track) 11AM – 12.40 PM
	Session Chair: <u>Dr. Pardeep Kumar</u>
	Swansea University
11.00 – 11.20	Investigating malware propagation and behaviour using system and network pixel-based
	visualisation (Jacob Williams and Phil Legg)
11.20 – 11.40	How good are we at detecting a phishing attack? Investigating how the evolving phishing
	attack email effects the trust of citizens
	(John Ayooluwa Adejobi, Fiona
	Carroll and Reza Montasari)
11.40 – 12.00	Mobile Agent Security against Malicious Hosts - A Survey
	(Twisha Chattopadhyay and Gaurav P)
12.00 - 12.20	Optimising the Security Architecture in Wireless Mesh Networks
	(Syed Saqlain Ahmed and Liqaa Nawaf)
12.20 – 13.15	Lunch











	Day 2 – Afternoon Session (1.15AM – 2.15 PM)
13.15	(AI & Machine Learning Track)
	Session Organizer: Prof. Phill Legg
	UWE
	Deep Neural Network based Real-Time Intrusion Detection System
40.45 40.05	(Sharuka Thirimanne, Lasitha Jayawardana, Lasith Yasakethu, Pushpika Liyanaarachchi
13.15 - 13.35	and Chaminda Hewage)
	Categorizing Sentiment polarities in Social networks data using Convolutional Neural
12 25 12 55	Network
13.35–13.55	(Gaurav Meena, Krishna Kumar Mohbey and Ajay Indian)
	Identifying & Counting Hosts behind NAT using ML and Comparative Analysis with
13.55 – 14.15	Conventional approach
15.55 – 14.15	(Sanjeev Shukla and Himanshu Gupta)
14.15 – 14.30	Tea Break
	Day 2 – Evening Session 2.30 PM – 3.30 PM
44.20	
14.30	(Cryptography Track)
	Session Chair: <u>Dr. Liqua Nawaf</u>
	Cardiff Metropolitan University
14.30 – 14.50	Resource-Aware Cryptography: An Analysis of Lightweight Cryptographic Primitives.
14.50 - 14.50	(Mohammed Rushad, Akshat Nambiar and B.R. Chandavarkar)
	CBS: A Crypto-Biometric system for Information Security
	(Aderonke F Thompson, Otasowie
14.50 – 15.10	Owolafe and Olaniyi A. Ayeni)
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	A Hybrid Secured Approach Combining LSB Steganography and AES using Mosaic Image
	for Ensuring Data Security
15.10–15.30	(Saralya Roy and Md. Moinul Islam)
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	Closing Remarks
15.30 – 15.40	Dr. Chaminda Hewage
	Cardiff Metropolitan University







