

**Wednesday 7<sup>th</sup> September 2022**  
**14<sup>th</sup> ICGS3-22**  
**Conference Programme**  
**DAY ONE**

<b>Registration</b>	<b>From 9:00am UK time and we would appreciate you registering as early as possible so we can start promptly at 9:30am UK time</b>
<b>Opening Session Chaired by Professor Hamid Jahankhani</b>  <b>9:30 – 10:00</b>	<p><b>Overview and welcome</b> Professor Hamid Jahankhani, General Chair of ICGS3</p> <p><b>Dr Tim Harris</b> Provost and Executive Dean QAHE</p> <p><b>Mr Simon Nelson</b> CEO of QA's Higher Education business</p> <p><b>Dr Guy Brown</b> Director of Northumbria University London Campus</p> <p><b>Dr Arshad Jamal</b> Dean –QAHE with Northumbria University London Campus</p>
<b>Keynote address 1</b>  <b>Chaired by Professor Hamid Jahankhani</b>  <b>10:00 – 10:45</b>	<p><b>Professor Nicholas Caldwell</b> Professor of Information Systems Engineering University of Suffolk, UK</p> <p><b>Mr Karan Dwivedi</b> Security Engineering Manager Google, California, USA</p>
<b>10:45 – 11:00</b>	<b>Comfort Break</b>
<b>Session 1</b>  <b>Chaired by Professor Amin Hosseinian Far</b>  <b>11:00 – 12:30</b>	<p><b>IoT-Penn: A Security Penetration Tester for MQTT in the IoT Environment</b></p> <p>Armand Roets and Bobby L. Tait University of South Africa, Pretoria, South Africa</p> <p><b>Profiling Cyber attackers by classification techniques; A case study on Russian hackers</b></p> <p>Eghe Ehiorobo, Sina Pournouri, Setareh Jalali Ghazaani, Joel Toms Sheffield Hallam University, UK</p> <p><b>What drives Generation Z to behave security compliant? An extended analysis using the theory of planned behaviour</b></p> <p>Fabrizia Vollenweider<sup>1</sup>, Hamid Jahankhani <sup>1</sup>Checkpoint, Switzerland Northumbria University London, UK</p>

	<p><b>The Impact of the Internet on Terrorism and Violent Extremism</b></p> <p>Georgina Butler and Reza Montasari School of Social Sciences, Department of Criminology, Swansea University, Swansea, UK</p> <p><b>The Future Era of Quantum Computing</b></p> <p>Galathara Kahanda, Vraj Patel, Mihir Parikh, Michael Ippolito, Maansi Solanki, Sakib Ahmed, Anthony Chavez, Sibel Cengiz</p> <p>Department of Computer Science and Mathematics, Rutgers University, Newark, USA</p>
12:30 – 13:00	<b>Comfort Break</b>
<p><b>Keynote address 2</b> <b>Chaired by</b> <b>Professor Hamid Jahankhani</b> <b>13:00 – 14:00</b></p>	<p><b>Dr Ali Dehghantanha (CISSP, CISM)</b> Director of Cyber Science Lab, University of Guelph, Ontario, Canada</p> <p><b>Richard Beck</b> Director of Cyber Security QA, London, UK</p>
<p><b>Session 2</b> <b>Chaired by</b> <b>Dr Reza Montasari</b> <b>14:00 - 15:15</b></p>	<p><b>A critical review of Digital Twin Confidentiality in a Smart City</b> Alex Kismul<sup>1</sup>, Haider Al-Khateeb<sup>2</sup>, and Hamid Jahankhani<sup>1</sup></p> <p><sup>1</sup>Northumbria University London Campus, UK <sup>2</sup>School of Engineering, Computing and Mathematical Sciences, University of Wolverhampton, UK</p> <p><b>The Role of blockchain to reduce the dissemination of fake news on social media and messaging platforms</b></p> <p>Marta Aranda-Tyrankiewicz, Hamid Jahankhani Northumbria University, London Campus, UK</p> <p><b>An Analysis of Cybersecurity Data Breach in The State of California</b> Zakaria Tayeb Bey and Michael Opoku Agyeman Centre for Advanced and Smart Systems, University of Northampton, UK</p> <p><b>Building A Resilient Cybersecurity Workforce: A multidisciplinary solution to the problem of high turnover of Cybersecurity Analysts</b></p> <p>Babatunde Adetoye and Rose Cheuk-wai Fong Northumbria University, London United Kingdom</p> <p><b>Security risk management and cybersecurity: from the victim or from the adversary?</b> Jeimy J. Cano M. Universidad de los Andes, Law Faculty, Colombia</p>
14:45 – 15:00	<b>End of Day one reflection</b>

Thursday 8<sup>th</sup> September 2022

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Conference Programme

**DAY TWO**

<p>Registration</p>	<p>From 9:00am UK time and we would appreciate you registering as early as possible so we can start promptly at 9:15am UK time</p>
<p>Session 3 Chaired by Dr Rose Fong 9:30– 10:45</p>	<p><b>The Reality of Cyber Security in Bangladesh, Relevant Laws, Drawbacks and Challenges</b>  Kudrat-E-Khuda (Babu) Daffodil International University, Dhaka, Bangladesh</p> <p><b>Comparison of Cybersecurity Methodologies for the Implementing of a Secure IoT Architecture</b>  Nicolas Moreta<sup>1</sup>, David Aragon<sup>1</sup>, Silvana Oña<sup>1</sup>, Angel Jaramillo<sup>1</sup>, Jaime Ibarra<sup>2</sup> and Hamid Jahankhani<sup>2</sup>  <sup>1</sup>Universidad de las Americas, Quito, Ecuador <sup>2</sup>Northumbria University, Newcastle, United Kingdom</p> <p><b>Automatic Detection of Cyberbullying: Racism and Sexism on Twitter</b>  Linfeng Wang and Tasmina Islam Department of Informatics, King’s College London, UK</p> <p><b>Assembly, deployment and extension of blockchain based decentralized autonomous organizations: A framework point of view</b>  Ava Halvai<sup>1</sup> and Umair B. Chaudhry<sup>1,2</sup> <sup>1</sup> Queen Mary University of London, London E1 4NS, UK <sup>2</sup> Northumbria University, Middlesex Street, London E1 7HT, UK</p> <p><b>Artificial Intelligence Techniques in Cybersecurity Management</b>  Mercy Ejura Dapel<sup>1</sup>, Mary Asante<sup>2</sup>, Chijioke Dike Uba<sup>1</sup> and Michael Opoku Agyeman<sup>1</sup> <sup>1</sup>Centre for Advanced and Smart Systems (CAST), University of Northampton, UK <sup>2</sup>University of Warwick Coventry, UK</p>

<p style="text-align: center;"> <b>Session 4</b>  <b>Chaired by</b>  <b>Dr Daniel Hagan</b>    <b>11:15 – 13:00</b> </p>	<p> <b>Developing a novel Digital Forensics Readiness Framework for Wireless Medical Networks Using Specialised Logging</b> </p> <p>Cephas Mpungu, Carlisle George and Glenford Mapp</p> <p>School of Computer Science, Middlesex University, London, United Kingdom</p> <p> <b>Spying on Kids’ Smart Devices : Beware of security vulnerabilities!</b> </p> <p>M A Hannan Bin Azhar, Danny Smith and Aimee Cain</p> <p>School of Engineering, Technology and Design, Canterbury Christ Church University, Canterbury, United Kingdom</p> <p> <b>Harnessing Big Data for Business Innovation and Effective Business Decision Making</b> </p> <p>Umair B. Chaudhry<sup>1, 2</sup> and M. Abdullah Chaudhry<sup>3</sup></p> <p><sup>1</sup> Northumbria University, Middlesex Street, E1 7HT London  <sup>2</sup> Queen Mary University of London, E1 4FZ London  <sup>3</sup> Lahore College of Arts, Science and Technology, GCUF, Lahore, Pakistan</p> <p> <b>A critical review into the digital transformation of land title management: the case of mining in Zimbabwe</b> </p> <p>David V. Kilpin, Eustathios Sainidis, Hamid Jahankhani, Guy Brown</p> <p>Northumbria University, UK</p> <p> <b>An Analysis of the Dark Web Challenges to Digital Policing</b> </p> <p>Reza Montasari and Abigail Boon</p> <p>School of Social Sciences, Department of Criminology, Sociology and Social Policy, Swansea University, Swansea, UK</p> <p> <b>Are small medium enterprises cyber aware?</b> </p> <p>Homan Forouzan, Amin Hosseinian-Far, Dilshad Sarwar</p> <p>University of Northampton, UK</p>
<p style="text-align: center;"><b>13:00 – 13:15</b></p>	<p><b>Comfort Break</b></p>

<p style="text-align: center;"> <b>Session 5</b>  <b>Chaired by</b>  <b>Dr Bilal Hassan</b>  <b>13:15 – 14:30</b> </p>	<p> <b>Profiling suspected Chinese cyber attacks by classification techniques</b>    Joel Mathew Toms, Setareh Jalali Ghazaani, Sina Pournouri, Eghe Ehiorobo    Sheffield Hallam University, UK    <b>Cyber Security Compliance among Remote Workers</b>    Diana Adjei Nyarko and Rose Cheuk-wai Fong    Northumbria University, London United Kingdom    <b>HOAXIMETER’ - An effective framework for fake news detection on the World Wide Web</b>  Ishrat Zaheer Chowdhary<sup>1</sup> and Umair B. Chaudhry<sup>1,2</sup>    <sup>1</sup> Queen Mary University of London, London, UK  <sup>2</sup> Northumbria University London, UK    <b>Cyber Resiliency in Electric Power Industry Based on The Maturity Model</b>    Mohammad Ebrahimnezhad<sup>1</sup>, Mehran Sepehri<sup>2</sup>    <sup>1</sup> Sharif University of Technology, Tehran, Iran  <sup>2</sup> Northampton University, Northampton, UK    <b>IoE Security Risk Analysis in a Modern Hospital Ecosystem</b>    Sadiat Jimo<sup>1</sup>, Tariq Abdullah<sup>1</sup>, Arshad Jamal<sup>2</sup>    <sup>1</sup>University of Derby, UK  <sup>2</sup>Northumbria University London Campus, UK    <b>Blockchain Technology in Cybersecurity Management</b>    Mercy Ejura Dapel<sup>1</sup>, Mary Asante<sup>2</sup>, Chijioke Dike Uba<sup>1</sup> and Michael Opoku Agyeman<sup>1</sup>    <sup>1</sup>Centre for Advanced and Smart Systems (CAST), University of Northampton, UK,  <sup>2</sup>University of Warwick Coventry UK </p>
<p style="text-align: center;"> <b>14:30 – 14:45</b>  <b>Professor Hamid Jahankhani</b> </p>	<p style="text-align: center;"> <b>End of Conference reflection and farewell</b> </p>