

# Developing a Framework for Human Interactions with Cyber-Physical Systems (CPS): The Dynamics of Risk and Trust

Senate Room  
University of Glasgow  
Tuesday 16 April 2024

09:30-09:40	Welcome and registration
09:40-10:10	<b>Keynote: Virtual Manufacturing, the Art of Industrial Gaming</b> <i>Jonathon Hill, Rolls Royce</i>
10:10-10:50	<b>Informing, Instructing, or Ignoring: Challenges and Considerations for Designing Machine Learning Cyber Detection Tools for Critical National Infrastructure (CNI) Organisations</b> <i>Kelsey Collington, Dimitrios Pezaros School of Computing Science, University of Glasgow</i>  <b>Digital Manufacturing Technologies and Parameters for Digital Security</b> <i>Jaemin Lee School of Mechanical Engineering, University of Leeds</i>
10:50-11:00	Tea break
11:00-12:00	<b>An Efficient and Rapidly Adaptable Lightweight Multi-Destination Urban Path Planning Approach for UAVs using Q-Learning</b> <i>Michael Jones Department of Computing and Mathematics, Manchester Metropolitan University</i>  <b>Optimising Target Tracking UAV Control for Enhanced Cyber-Physical Systems Operation</b> <i>Chinedu Justice Mbam, School of Mechanical Engineering, University of Leeds</i>  <b>TELESIM: A Modular and Plug-and-Play Framework for Robotic Arm Teleoperation using a Digital Twin</b> <i>Florent P Audonnet, Jonathan Grizou, Andrew Hamilton and Gerardo Aragon-Camarasa, School of Computing Science, University of Glasgow</i>
12:00-13:00	Lunch
13:00-14:00	<b>On the Need to Regulate the Use of Gamification Techniques in Investment Services</b> <i>Mariia Domina, University of Lorraine (Institut François Geny UR 7301)</i>  <b>Lay Beliefs about AI and Its Consequent Outcomes</b> <i>Suhas Vijayakumar, W. Yuna Yang and David DeFranza, University College Dublin</i>  <b>The Datafied Customer Relationship in Behavioural Life Insurance: Focus on Emotions and Values</b> <i>Maiju Tanninen, Centre for Sociological Research, KU Leuven</i>

14:00-15:00	<p><b>Can We Trust 'Trust'? An Overview of Trust Concepts and Definitions</b>  <i>Morgan Bailey, Frank Pollick, School of Computing Science, School of Psychology and Neuroscience, University of Glasgow</i></p> <p><b>Behavioural Agent-Based Models: Potentials and Challenges of Using Digital Twins</b>  <i>Yahya Gamal, Alison Heppenstall, School of Social and Political Science, University of Glasgow</i></p> <p><b>Extended Realities: Real Problems, Virtual Solutions</b>  <i>Paul Chapman, Glasgow School of Art</i></p>
15:00-15:20	Tea break
15:20-16:20	<p><b>Trust and Risk: Developing a Proof-of-Concept Toolbox for DigitalTwin and Cyber Risks Using Maritime Navigation as a Case Study</b>  <i>Livashnee Naidoo, Jongrae Kim, Frank Pollick, School of Law, University of Glasgow, School of Mechanical Engineering, University of Leeds, School of Psychology and Neuroscience, University of Glasgow</i></p>
16:20-16.30	Closing

Organisers:

Livashnee Naidoo, School of Law, University of Glasgow  
 Jongrae Kim, School of Mechanical Engineering, University of Leeds  
 Frank Pollick, School of Psychology and Neuroscience, University of Glasgow

Sponsor:

Willis Towers Watson



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