

Activity & Progress Reporting

Section Spring Meeting - 29th April 2022

<p>1. Chapter/Affinity Group:</p>	<p>IEEE UK and Ireland Section Chapter, SMC28 Ireland (CH08650)</p>
<p>2. Committee Members</p>	<p>Chair: Dr Jun Liu (Reader in Computer Science, School of Computing, Ulster University)</p> <p>Other committee members: Hui Wang, Sally McClean, Maurice Mulvenna, Haiying Wang, Huiyu Zhou, Girijesh Prasad, Nazmul Siddique, Fiona Browne, Leo Galway</p>
<p>3. Reporting Officer:</p>	<p>Dr Jun Liu</p>
<p>4. Overview of current plan and activities:</p>	<ul style="list-style-type: none"> i. Key technical focus research workshop to form effective consortium and technical community ii. Encourage and attract more members. iii. Close engagement and interaction with Ireland and the mainland SMC chapters in different ways to be further discussed and agreed. iv. Work towards the overall aim and objectives of the IEEE UK and Ireland Section.
<p>5. Key Achievements and member value/services to date:</p>	<p>Chapter Related Events – Workshops/Seminars (Since last AGM meeting in October 2021):</p> <ul style="list-style-type: none"> 1. Dynamics of Lockdown Simulations and COVID-19 in Northern Ireland by Dr Gavin Abernethy, Senior Lecturer, Department of Engineering and Mathematics, Sheffield Hallam University, UK, Monday, April 11, 2022. 2. Augmented Data Quality by Dr. Fiona Browne, Datactics, Belfast, UK, Wednesday, March 30, 2022. 3. Artificial Emotional Intelligence by Dr Javier Gonzalez-Sanchez, Arizona State University, USA, Wednesday, March 23, 2022. 4. Towards a Science of Trustworthy Artificial Intelligence by Prof. Barry O'Sullivan, FEurAI, FIAE, FICS, MRIA, School of Computer Science & IT, University College Cork, Vice Chair, European Commission High-Level Expert Group on AI (2018-2020), Wednesday, March 09, 2022. 5. From Personal Big Data to Personalized Intelligence by Prof. Dr. Jianhua Ma, Head of Ubiquitous Computing Lab, Department of Digital Media, Hosei University, Tokyo, Japan, Wednesday, February 23, 2022. 6. Neuro-Symbolic AI: Explainability and Deep Deductive Reasoning by Prof. Dr. Pascal Hitzler, Director, Center for Artificial Intelligence and Data Science (CAIDS), Kansas State University, USA, Wednesday, February 09, 2022. 7. Magic of Generative Adversarial Networks (GANs) by Mr Ravi Shukla, Senior Data Scientist, Performance Analytics Group (PAG) in Dell Technologies, February 2, 2022. 8. Deep Optimisation: Solving Hard Problems Efficiently with Symbiogenesis by Prof. Dr. Joshua Knowles, Invenia Labs, Cambridge, UK, Wednesday, December 01, 2021.

	<p>9. Explaining Deep Neural Networks using Statistical Fault Localization BY Dr Youcheng Sun, Queen’s University of Belfast (QUB), UK, Thursday, November 11, 2021.</p> <p>10. Artificial Intelligence for Biomarker Discovery by Prof. Dr. Fangxiang Wu, University of Saskatchewan, Canada, Wednesday, November 17, 2021.</p>
6. Key Challenges:	<ul style="list-style-type: none"> • Add and strength the real benefits • Long term aim and objectives match in the line with the academic and industry long term target
7. Deficits/Required Resources:	N/A
8. Actions/Support requested from the Section:	Ask for a support for inviting a distinguished speaker to Belfast for the Chapter annual workshop (initial plan was online, now will hold it in a hybrid way), which will be held in the middle of June.
9. Action Plan:	<ul style="list-style-type: none"> • Hold the Chapter Annual Workshop in “Trustworthy AI for the Future of Risk Management” on 14th June 2022 at Belfast. • Exchange and interact with the IEEE distinguished lecturers • Research networking opportunity in the planned specific topic • Share and disseminate best practices research • Promote IEEE, IEEE SMC, IEEE SMC Ireland Chapter and the Chapter business discussion meeting • Promote the new IEEE/IEEE SMC membership recruitment • Close engagement and interaction with Ireland and the mainland SMC chapters in different ways to be further discussed and agreed.