

Chapter/Affinity Group: SMC28 Ireland Chapter (CH08650)

Reported by: Dr Jun Liu, Ulster University



Key Achievements and member value/services

- **Chapter Related Events –Seminars (since last AGM meeting):**
 - 1.Data Mining a Human Digital Twin by Diane Cook, School of Electrical Engineering and Computer Science, Washington State University, USA, April, 2021
 - 2.Evolutionary Multi-objective Federated Neural Architecture Search by Prof Yaochu Jin, Department of Computer Science, University of Surrey, Guildford, UK, 20 May, 2021
 - 3.Distributed Algorithms for Network-Based Optimization and Machine Learning by Prof. Zhengtao Ding, The University of Manchester, UK. 3rd June, 2021
 - 4.Bad Data Analysis in an Era of Big Data by Prof. Zidong Wang, Department of Computer Science, Brunel University London, UK. 17 June, 2021
 - 5.Computational Behaviour Analytics with Wearable Sensing and AI by Prof. Daniel Roggen, School of Engineering and Informatics, University of Sussex, UK. 22 June, 2021
 - 6.Towards Causal Modeling of Nutritional Outcomes by Dr Michele Sebag, Principal Scientist at CNRS (Directrice de recherche de 1ere classe), France, 28 June, 2021
 - 7.Device-free Wireless Sensing with Wi-Fi Signals: Theory and Applications by Prof Daqing Zhang, Peking University, China, 22 September, 2021
 - 8.From Probabilistic Logics to Neuro-Symbolic Artificial Intelligence by Prof. Dr. Luc De Raedt, Director of Leuven.AI, the KU Leuven Institute for AI, KU Leuven, Belgium, 06 October, 2021
 - 9.Behavioural Science and the Digital Transformation of Healthcare by Dr. Jane Walsh, Director of mHealth Research Group, National University of Ireland Galway (NUIG), Ireland, October 20, 2021

Current plan of activities

- I. Key technical focus research workshop to form effective consortium and technical community
- II. Encourage and attractive more members, especially student members, by combining the strength from Ulster and QUB.
- 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.

Focus areas (2021)

Goals	KPIs	Challenges to reach KPIs/ Resources
Exchange, networking, promotion, recruitment, and dissemination	<ul style="list-style-type: none"> • Chapter annual workshop to be organized in November/December 2021. • Other workshops and seminars 	Funding support from IEEE for the invited IEEE distinguished lecturers
Engagement and link with other chapters	Close engagement and interaction with Ireland and the mainland SMC chapters in different ways to be further discussed and agreed.	Geolocation, management, member involvement, remote webinars etc.