Activity & Progress Reporting

Section Autumn Meeting - 28th April 2023

1. **Chapter/Affinity Group:**	IEEE UK and Ireland Section Chapter, SMC28 Ireland (CH08650)
2. **Committee Members**	Chair: Dr Jun Liu (Reader in Computer Science, School of Computing, Ulster University) Other committee members: Hui Wang, Sally McClean, Maurice Mulvenna, Haiying Wang, Huiyu Zhou, Girijesh Prasad, Nazmul Siddique, Fiona Browne, Leo Galway, Glenn Hawe, Raymond Bond
3. **Reporting Officer:**	Dr Jun Liu
4. **Overview of current plan and activities:**	i. Key technical focus research workshop to form effective consortium and technical community ii. Encourage and attractive 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.
5. **Key Achievements and member value/services to date:**	**Chapter Related Events – Workshops/Seminars (Since the last AGM meeting in Oct 2022):** **Workshops:** AI in Health 2023 One-day Workshop, February 10, 2023, Room BD-00-011B, Ulster University, Belfast. AI and Digital Twins for Build Environment Workshop 2023: Half-day Workshop (12:30 - 16:30pm), February 08, 2023, Room BC-03-123, Ulster University, Belfast **Several Research Seminars held in a hybrid mode:** 1. Two forthcoming Research Seminars have been scheduled on April 26 and May 3 respectively in Semester 2. 2. Deploying Prediction Models or What Happens after the ROC? by Dr. William Marsh, School of Electronic Engineering and Computer Science at Queen Mary University London, UK, Wednesday, March 8, 2023 3. HOL, Universal Meta-Logical Reasoning and LogiKEy by Prof. Dr. Christoph Benzmuller, Professor for AI Systems Development at the University of Bamberg, Germany, Wednesday, March 01, 2023 4. Smart Agriculture - Impact of Machine Learning and Sensor Technologies by Prof Mohand Tahar Kechadi, Professor at School of Computer Science, University College Dublin, Ireland, Wednesday, February 15, 2023 5. Automatic and Semi-Automatic Translation for Cloud Programming Models by Prof Yi Pan, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, China and Regents'

	Professor Emeritus, Georgia State University, USA, Wednesday, February 01, 2023 6. Exploiting the Use of Mobile Sensors for Studying Human Behaviour by Prof Oresti Banos, Tenured Professor of Computational Behaviour Modelling at the University of Granada, Spain, Wednesday, December 14, 2022 7. Automated Gesture Recognition in Non-verbal Communication by Prof. Bryan Scotney, Pervasive Computing Research Centre (PCRC), School of Computing, Ulster University, Wednesday, November 30, 2022 8. Introduction to Knowledge Graphs by Mr. John Calin, Lead Data Scientist at Kainos London, Tuesday, November 29, 2022 9. The Next Frontier in Ethical AI by Maria Luciana Axente, Responsible AI Executive, Ethicist and Influencer, PwC United Kingdom, Wednesday, November 23, 2022 10. Missing Data Analysis in Probabilistic Machine Learning Models by Prof. Andrew Parnell, Hamilton Professor in the Hamilton Institute at Maynooth University, Ireland, Wednesday, November 2, 2022 11. Artificial Intelligence for Histopathological Image Analysis by Prof. Huiyu Zhou, School of Computing and Mathematical Sciences, University of Leicester, UK, Wednesday, October 26, 2022.
6. Key Challenges:	• 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:	N/A.
9. Action Plan:	• Hold the Chapter Annual Workshop in 2023 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, IEEESMC Ireland Chapter and the Chapter business discussion meeting • Promote the new IEEE/IEEESMC membership recruitment • Close engagement and interaction with Ireland and the mainland SMC chapters in different ways to be further discussed and agreed.