Abstract:
This address will cover the latest advances on technology ethics and two IEEE initiatives namely IEEE 7000 standard and the Ethics Certification Programme for Autonomous and Intelligent Systems (ECPAIS). These provide a basis for raising awareness and providing a systematic framework for the innovators, researchers and technologists as well as small and large enterprises involved in AI and technology innovation and development. The main focus is on Autonomous Decision Making and Algorithmic Learning Systems and two complementary approaches to the risk reduction in societal harms and ethical assurance of these ubiquitous technologies.

Prof Ali Hessami is currently the Director of R&D and Innovation at Vega Systems. He extensive track record in systems assurance and safety, security, sustainability, knowledge assessment/management methodologies and has a background in design and development of advanced control systems for business and safety critical industrial applications.

Ali represents UK on CENELEC & IEC safety systems, hardware & software standards committees. He was appointed by CENELEC as convenor of a number of Working Groups for review of EN50128 Safety Critical Software Standard and for update and restructuring of the software, hardware and system safety standards in CENELEC. Ali also a member of Cyber Security Standardisation WG26 Group and started and chairs the IEEE SMC and the Systems Council Chapters in the UK and Ireland Section.

Ali was appointed as the Technical Editor and later the Chair of P7000 standard. In November 2018, he was appointed as the VC and Process Architect of the IEEE ‘s global Ethics Certification Programme for Autonomus & Intelligent Systems (ECPAIS). He has been the recent Chair of the IEEE in the UK and the Republic of Ireland driving an extensive programme of reform and member value initiatives ranging from a structured educational programme for online and face to face delivery to events, Open Days, Lectures and Professional Recognition and Registration for members.

Ali is a Visiting Professor at London City University’s Centre for Systems and Control in the School of Engineering & Mathematics and at Beijing Jiaotong University School of Electronics & Information Engineering. He is also a Fellow of Royal Society of Arts (FRSA), Fellow of the UK Institution of Engineering & Technology (IET) and a Life Senior Member of IEEE.

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