

学术报告会

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AIoT and Robotics Accelerate Intelligent Manufacturing and Logistics Paradigm Shift

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Abstract:

There are 10 widely recognized disruptive innovations and technologies in which Artificial Intelligence, Internet of Things, Robotics, Intelligent Manufacturing and Digital Economy are included. As the society facing the reality of aging and the industry encountered increased salary/wage levels as well as lack of skilled workers, the need of robots and manufacturing automation enhanced by Artificial Intelligence of Things (AIoT) is obvious. Amazon and Google are investing in AIoT, intelligent robotics and logistics technology. Others are likely to follow, further to stimulate investment and innovation.

Artificial Intelligence becomes important core technology of soft power in terms of global technological development, which has a wide spectrum of applications including autonomous mobile robot (AMR) and autonomous mobile industry robot (AMIR) integrated manufacturing and logistic automation, industrial Cyber-Physical Systems (iCPS), Augmented Reality(AR), Automated Optical Inspection(AOI), internet of things (IoT), etc. The aforementioned issues, challenges and opportunities will be the focus of this presentation including some exemplary best practices and research results with video demo from our NTU iCeIRA Lab.

Biography:

罗仁权教授荣获德国柏林工业大学学士与硕士联制之德国国家工程师(Dipl. - Ing.)学位及德国柏林工业大学电机工程博士(Dr.-Ing.) 学位。目前担任台湾大学电机系讲座教授暨终身特聘教授，台湾大学智慧机器人及自动化国际研究中心主任。罗教授亦受聘为欧盟产业发展指导委员会委员；国际IEEE工业信息期刊总主编,Editor-in-Chief, IEEE Transactions on Industrial Informatics (Impact Factor 7.373)。

罗教授之专长领域在智慧型感测控制机器人系统；智慧型多样感测器融合与整合系统；电脑视觉伺服回授控制系统；智慧型光机电整合系统;3D积层制造系统；先进制造自动化系统(于以上学术专业领域发表500余篇学术科技论文在国际著名学术期刊、国际会议、专书及20多项国际专利)。在美国及台湾担任指导教授共指导200多位硕士及博士生毕业。