

## Keynote Speaker

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### Title: Evolutionary Development of AI and Autonomous Robots

**Abstract:** After recent advancement of AI and robotics technologies, autonomous robots are gradually serving us in our home, hospital, office and everywhere. They are intelligent and interactive, inspired from behaviour demonstration of biological systems. . Many people are worry about the risk of losing the jobs to robots, and some people thought these intelligent robots may control us in the future. In this talk, I will firstly outline a brief evolution history of AI and robotics technologies, and then their future trend is predicted in some depth. Some milestone robotic projects in the world and the robotics research work done at Essex will be presented, including behaviour modelling, sensor data fusion and behaviour-based control. Finally, my Keynote Speech will deliver a conclusion that humans will control the world and robots will be good servants to us.



**Brief CV:** Huosheng Hu is Professor in the School of Computer Science and Electronic Engineering at the University of Essex, United Kingdom. He received the MSc degree in industrial automation from the Central South University in China in 1982 and the PhD degree in robotics from the University of Oxford in the U.K. in 1993. His research interests include autonomous robots, embedded systems, data fusion, human-robot interaction, machine learning algorithms, cloud computing and mechatronics. He has published over 500 papers in journals, books and conferences in these areas. His research publications have received a high citation of 15870 and his H-Index is 58 (Google Scholar). Prof. Hu is a Fellow of Institute of Engineering and Technology, a Fellow of Institute of Measurement and Control, a founding member of IEEE Robotics and Automation Society Technical committee on Networked Robots. He has been a Program Chair or a member of Advisory Committee for many international conferences such as IEEE ICRA, IROS, ICMA, ROBIO during the last 20 years. He is currently Executive Editor for International Journal of Mechatronics and Automation.