澳門理工學院
Instituto Politécnico de Macau
Macao Polytechnic Institute

名師系列講座之七十二
Distinguished Lecturers' Seminar Series 72

Building Resilient Space Exploration Systems
構建智能適應大型軟件系統

主講嘉賓 / Speaker:
Professor Mike Hinchey

- 美國太空總署（NASA）前任軟件工程實驗室所長
  Former Director of the NASA Software Engineering Laboratory

- 愛爾蘭利墨瑞克大學軟件工程教授
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地點 Venue : 澳門理工學院禮堂 MPI Auditorium

語言 Medium : 英語 English

ABSTRACT:

Increasingly software can be considered to be critical, due to the business or other functionality which it supports. Upgrades or changes to such software are expensive and risky, primarily because the software has not been designed and built for ease of change. Expertise, tools and methodologies which support the design and implementation of software systems that evolve without risk (of failure or loss of quality) are essential. We address a research agenda for building software in computer-based systems that (a) is safe and highly reliable and (b) retains this reliability as it evolves, either over time or at run-time and illustrate this with a complex example from the domain of space exploration.

歡迎出席 / All are Welcome!

SPEAKER BIO:

Professor Mike Hinchey is the Director of Lero-the Irish Software Research Centre and Professor of Software Engineering at University of Limerick. Prior to joining Lero, Professor Hinchey was the Director of the NASA Software Engineering Laboratory; he continues to serve as a NASA Expert. In 2009 he was awarded NASA's Kerley Award as Innovator of the Year. Professor Hinchey holds a B.Sc. in Computer Systems from University of Limerick, an M.Sc. in Computation from University of Oxford and a PhD in Computer Science from University of Cambridge. Professor Hinchey is a Chartered Engineer, Chartered Engineering Professional, Chartered Mathematician and Charted Information Technology Professional, as well as a Fellow of the IET, British Computer Society and Irish Computer Society. He is President of IFIP (International Federation forInformation Processing) and Vice-Chair (and Chair-Elect) of IEEE UK & Ireland section. He is also Editor-in-Chief of Innovations in Systems and Software Engineering: a NASA Journal and Journal of the Brazilian Computer Society.