



WAC 2021

14th Bi-annual Congress

VIRTUAL EVENT

No. TBD



Saeid Nahavandi
Deakin University, Australia
Time: TBD

Day: TBD August 2021

Chair: TBD

Venue: Virtual

Advances on Haptically Enabled Robotics Systems

ABSTRACT Tele-robotics, tele-presence and haptics research are reviewed and discussed. Most existing tele-robotic systems have human involvement in some way, shape or form. Having the human in the loop, performing a critical task to the mission brings its own weakness and disadvantage. Haptically Enabled Robotics can add a new dimension to such operations, offering robots with a remote sense of touch, which in turn provide true tele-presence for applications such as; haptic based minimally invasive surgery and remote robotic based medical imaging, to other types of non-medical applications such as; mining, nuclear, Defence and extraterrestrial type activities and experimentations. This talk will highlight key enabling technologies that have been developed and successfully tested.

Bio: Saeid Nahavandi received his BSc (Hons), MSc and PhD in Control Engineering from Durham University, UK in 1985, 1986 and 1991 respectively. Saeid is an Alfred Deakin Professor, Pro Vice-Chancellor and the founding Director for the Institute for Intelligent Systems Research and Innovation at Deakin University in Australia. Professor Nahavandi is a Fellow member of IEEE, IET and IEAust. He has published over 1000 refereed papers and been awarded over 50 competitive grants over the past 33 year and holds six patents, two of which have resulted in two very successful start-ups (Universal Motion Simulator Pty Ltd and

FLAIM Systems Pty Ltd). Saeid is a Fellow of the Australian Academy of Technological Sciences and Engineering (FTSE).