

UKACC: EMERGENT BEHAVIOUR, SYNCHRONISATION AND CONTROL

Institution of
**MECHANICAL
ENGINEERS**

17 May 2016

**Institution of Mechanical Engineers,
One Birdcage Walk, London**



FREE AND OPEN TO ALL

PRESENTED BY:

Professor Henk Nijmeijer

**Department of Mechanical Engineering,
Dynamics & Control Group, Eindhoven University of Technology**

Lecture

Mechatronics Informatics & Control Group

www.imeche.org/TLE6380

UKACC: EMERGENT BEHAVIOUR, SYNCHRONISATION AND CONTROL

17 MAY 2016



EMERGENT BEHAVIOUR, SYNCHRONISATION AND CONTROL WILL COVER NEW DEVELOPMENTS IN CONTROL SYSTEMS AND ROBOTICS, IN PARTICULAR COOPERATIVE ROBOTIC SYSTEMS AND THE SYNCHRONISATION OF THESE ROBOTS TO COMPLETE TASKS.

As the sensor and actuator market has dramatically evolved in recent years, so too has the ability of control systems, meaning that robots in industry are capable of far more than just picking up and placing objects.

Professor Nijmeijer will review the basics of network synchronisation and to develop an understanding of how cooperative behaviour can develop in networks. Examples from biology and engineering, including Huygens's pendulum clocks and vehicle platoons, will enlighten the presentation.



OTHER EVENTS TO LOOK FOR:



ESSENTIAL MANAGEMENT SKILLS 2016

20–22 April 2016

University of Warwick, Coventry

www.imeche.org/EMS2016



VIBRATIONS IN ROTATING MACHINERY - VIRM 11

13–15 September 2016

University Place, University of Manchester, Manchester

www.imeche.org/VIRM

PROFESSOR HENK NIJMEIJER

Department of Mechanical Engineering, Dynamics & Control Group, Eindhoven University of Technology

Henk Nijmeijer is a full professor at Eindhoven, and chairs the Dynamics and Control Group. He has published a large number of journals, conference papers and several books. He is an editor of Communications in Nonlinear Science and Numerical Simulations, a fellow of the IEEE since 2000 and was awarded the IEE Heaviside Premium in 1990. Henk was appointed Honorary Knight of the 'Golden Feedback Loop' (NTNU) in 2011. Since 2011, he has been an IFAC Council Member and from January 2015 he became Scientific Director of the Dutch Institute of Systems and Control (DISC). Henk is also a recipient of the 2015 IEEE Control Systems Technology Award.

PROGRAMME

17:30 Registration and refreshments

18:00 Lecture to commence

19:30 Lecture to conclude. Q&A session and networking opportunities

FOR MORE INFORMATION:

VISIT: www.imeche.org/TLE6380

CALL: +44 (0)20 7973 1251

EMAIL: eventenquiries@imeche.org