Dynamics, control and information in delay-coupled systems

Papers of a Theme Issue compiled and edited by Valentin Flunkert, Ingo Fischer and Eckehard Schöll

Introduction
Dynamics, control and information in delay-coupled systems: an overview
V. Flunkert, I. Fischer & E. Schöll

Articles
Stochastic description of delayed systems
L. F. Lafuerza & R. Toral
Amplitude and phase dynamics in oscillators with distributed-delay coupling
Y. N. Kyrychko, K. B. Blyuss & E. Schöll
Slow–fast dynamics of a time-delayed electro-optic oscillator
L. Weicker, T. Emeux, O. D’Huys, J. Danckaert, M. Jacquot, Y. Chembo & L. Larger
The consensus problem in networks with transmission delays
F. M. Atay
Chaos in networks with time-delayed couplings
W. Kinzel
Amplitude death in networks of delay-coupled delay oscillators
J. M. Höfener, G. C. Sethia & T. Gross
An odd-number limitation of extended time-delayed feedback control in autonomous systems
A. Amann & E. W. Hooton
Delayed feedback control of three diffusively coupled Stuart–Landau oscillators: a case study in equivariant Hopf bifurcation
J. Schneider
Feedback control of unstable periodic orbits in equivariant Hopf bifurcation problems
C. M. Postlethwaite, G. Brown & M. Silber
Delayed feedback control in quantum transport
C. Emay
Bifurcation analysis of delay-induced patterns in a ring of Hodgkin–Huxley neurons
M. Kantner & S. Yanchuk
Complexity in electro-optic delay dynamics: modelling, design and applications
L. Larger
Two-parameter study of square-wave switching dynamics in orthogonally delay-coupled semiconductor lasers
C. Masoller, M. Sciamanna & A. Gavrielides
The dynamics of genetic control in the cell: the good and bad of being late
G. Tiana & M. H. Jensen