

FRIDAY 4 JULY

09:00	Minisymposia			Contributed Talks		Minisymposia	Contributed Talks
	Christopher Ingold Auditorium <i>Mathematics and Social Networks</i>	Christopher Ingold Chemistry L.T. <i>Multivariate and/or Multidimensional Image Processing in Biomedical Applications</i>	Christopher Ingold Ramsey L.T. <i>Numerical Simulation of Cardiac Bioelectric Activity</i>	Drayton Jevons L.T.	Drayton Ricardo L.T.	Harrie Massey L.T. <i>Charge and Spin Transport in Nanostructures</i>	South Wing Garwood L.T.
09:00	N. Johnson <i>Laws of war? Social network dynamics underlying events in Iraq, street-gangs and online games</i>	G. Noyel <i>Hyperspectral mathematical morphology of DCE-MRI series for angiogenesis imaging</i>	J. P. Whiteley <i>Computational and numerical methods for the efficient and accurate solution of the bidomain equations</i>	S. Sieniutycz <i>Variational Optimization of Power Yield in Industrial Systems</i>	M. Karamehmedović <i>Characterization of Micro and Nano Structures Embedded in Materials</i>	V. Romano <i>Quantum model for charge transport in semiconductors based on the maximum entropy principle</i>	M.M. El-Borai <i>Exact solutions for some nonlinear fractional parabolic partial differential equations</i>
09:20				M.E. Vazquez-Mendez <i>Management of Several Purifying Plants in the Same Area: A Multi-Objective Optimal Control Problem</i>	F. de Hoog <i>An Inverse Problem for Coil Winding</i>	L. Barletti <i>Nonlinear electron and spin transport in semiconductor superlattices</i>	Sh.E. Guseynov <i>A Model with Nonlinear Equation for Intensive Steel Quenching and its Analytical Solution in Closed Form</i>
09:30	S. Fortunato <i>Detecting the overlapping and hierarchical community structure of complex networks</i>	J. Angulo <i>Morphological deterministic operators and stochastic models for image segmentation and quantification of multi-fluorescence labelled cell populations</i>	G. Seemann <i>Framework for Modular, Flexible and Efficient Solving the Cardiac Bidomain Equation using PETSc</i>	O. Kolb <i>Optimum Control with PDEs on Networks</i>	C. Arévalo <i>Quasicontinuum method at finite temperature applied to the study of nanovoids evolution in bcc crystals</i>		E. Popescu <i>Fractional Cauchy problem with applications to anomalous diffusion</i>
09:40							
10:00	M.A. Porter <i>Complex Networks: From U.S. College Football to Congress</i>	J. Stawiaski <i>Spatio-temporal segmentation for radiotherapy planning</i>	M. Weiser <i>On Efficiency and Accuracy in Cardioelectric Simulation</i>	H. Herrero Sanz <i>Optimal control of buoyant flows under localized heating</i>	L. Novozhilova <i>New convergent FEM scheme for rigid- plastic flow with discontinuous test functions</i>	M. Carretero <i>Self-sustained spin-polarized current oscillations in multiquantum well structures</i>	T.M. Surowiec <i>On the Coderivative of the Normal Cone Mapping to Non-polyhedral Sets</i>
10:20							
10:30	D. Plato <i>Are Copying and Innovation Enough?</i>	K. Rohr <i>Tracking and Registration for Multidimensional Biomedical Image Analysis</i>		Wacker Prize Lecture Lauri Harhanen (Helsinki University of Technology, Finland) <i>Selectively Smoothing Regularization in X-Ray Tomography</i>		G. Platero <i>Spin Dynamics in double quantum dots</i>	
11:00	Tea/Coffee						
11:30	Plenary Speaker: Colin Please <i>Continuum models - helping to guide industry</i> (Christopher Ingold Auditorium)						
12:30	Prize Giving and Closing Ceremony						