

## Equazioni Integrali: recenti sviluppi numerici e nuove applicazioni

### Programma

29 Ottobre 2009	
9.00 – 9.15	<b>Apertura lavori</b>
9.15 – 10.00	G. Monegato “ <i>Space-time BIEM for wave equation problems with non homogeneous data</i> ”
10.00 – 10.45	A. Frangi “ <i>Application of Boundary Integral Equations to Micro-Electro-Mechanical-Systems</i> ”
10.45 – 11.10	<b>Coffee Break</b>
11.10 – 11.35	G. Mastroianni “ <i>A quadrature method for C.I.E.</i> ”
11.35 – 12.00	I. Notarangelo “ <i>Some new function spaces and their theoretical applications to Fredholm integral equations</i> ”
12.00 – 12.25	M.C. De Bonis “ <i>Numerical treatment of systems of Fredholm integral equations on the real axis</i> ”
12.25 – 12.50	E. Messina “ <i>Preservation of equilibrium states and their stability in the numerical integration of two delays nonlinear Volterra Integral Equations</i> ”
12.50 – 14.30	<b>Pranzo</b>
14.30 – 15.15	L.J. Gray “ <i>Level Set-Boundary Integral Simulation of the Rayleigh-Taylor Instability</i> ”
15.15 – 16.00	R. Paolucci “ <i>The spectral element method: applications to earthquake and vibration engineering</i> ”
16.00 – 16.25	A. Salvadori “ <i>SIF and T stress computation via BIEs</i> ”
16.25 – 16.50	V. Mantic “ <i>On variational formulations for elastic domain decomposition problems solved by SGBEM enforcing coupling conditions in a weak form</i> ”
16.50 – 17.15	<b>Coffee Break</b>
17.15 – 17.40	L. Tavará “ <i>Implementation of a symmetric boundary integral formulation for cohesive cracks in homogeneous media and at interfaces</i> ”
17.40 – 18.05	A.V. Phan “ <i>Multiscale Transient Analysis of the DSIFs and T-Stress based on Symmetric-Galerkin BEM</i> ”
18.05 – 18.30	W. Themistoclakis “ <i>A numerical approach to some kinetic equations in a dusty plasma</i> ”

30 Ottobre 2009	
9.00 – 9.45	S. Rjasanow “ <i>Adaptive Cross Approximation with new applications</i> ”
9.45 – 10.30	M. Schanz “ <i>Application of Adaptive Cross Approximation in a Time Domain Boundary Element Formulation</i> ”
10.30 – 10.55	M. Annunziato “ <i>Fast solvers for Fredholm optimal control problems</i> ”
10.55 – 11.20	<b>Coffee Break</b>
11.20 – 11.45	C. Frammartino “ <i>A Nyström method for 2s-th order BVP</i> ”
11.45 – 12.10	L. Fermo “ <i>A discussion on the regularizing parameter of some integral equations</i> ”
12.10 – 12.35	A. Cardone “ <i>A numerical method for Volterra Integral Equations with periodic solution</i> ”
12.35 – 13.00	D. Conte “ <i>Modified collocation-based numerical methods for Volterra Integral and Integro-Differential Equations</i> ”
13.00 – 13.25	A. Aricò “ <i>Numerical solution of the nonlinear Schrödinger equation, starting from the scattering data</i> ”
13.30	<b>Pranzo</b>