



Second Workshop on "Scientific Computation, Numerical Analysis and Applications"

Department of Mathematics, Indian Institute of Science, Bangalore



July 04 - 15, 2005

Venue : Lecture Hall I, Department of Mathematics

8.30 - 9.30 : Registration

	9.30 - 11.00	11.00 - 11.30	11.30 - 13.00	13.00 - 14.30	14.30 - 16.00	16.00 - 16.30
04.07.2005 Monday	Bill Morton The application and analysis of finite volume methods	Tea	Maria Lukacova Genuinely multidimensional schemes based on the use of bi-characteristics (Theory and Applications)	Lunch	Maria Lukacova Genuinely multidimensional schemes based on the use of bi-characteristics (Theory and Applications)	Tea
05.07.2005 Tuesday	Bill Morton The application and analysis of finite volume methods	Tea	Maria Lukacova Numerical modelling of the shallow water magnetohydrodynamic equations with the div-free constraint	Lunch	Philip L. Roe Defects in current CFD methods	Tea
06.07.2005 Wednesday	Bill Morton The application and analysis of finite volume methods	Tea	Jean-Pierre Raymond Introduction to optimal control and optimality conditions	Lunch	Philip L. Roe The role of Entropy in CFD	Tea
07.07.2005 Thursday	Jean-Pierre Raymond Optimization algorithms and application to control problems	Tea	Philip L. Roe Truly multidimensional Euler methods	Lunch	N. Balakrishnan LSFD-U: A meshless framework for fluid flow problems	Tea
08.07.2005 Friday	Jean-Pierre Raymond Numerical approximation of control problems	Tea	Adimurthy Viscosity solution for HJ equations	Lunch	N. Balakrishnan LSFD-U: A meshless framework for fluid flow problems	Tea

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11.07.2005 Monday	Jean-Pierre Raymond Introduction to stabilization problems	Tea	Adimurthy Viscosity solution for HJ equations	Lunch	Linda Petzold Simulation and Analysis of Differential-Algebraic Equation Systems	Tea
12.07.2005 Tuesday	Jean-Pierre Raymond Boundary feedback stabilization of the Navier-Stokes equations	Tea	Adimurthy Viscosity solution for HJ equations	Lunch	Linda Petzold Simulation and Analysis of Differential-Algebraic Equation Systems	Tea
13.07.2005 Wednesday	Linda Petzold Simulation and Analysis of Differential-Algebraic Equation Systems	Tea	Linda Petzold Simulation and Analysis of Differential-Algebraic Equation Systems	Lunch	Dietmar Kroener Adaptive grid refinement for convection dominated problems	Tea
14.07.2005 Thursday	Phoolan Prasad Kinematical conservation laws and applications	Tea	Linda Petzold Simulation and Analysis of Differential-Algebraic Equation Systems	Lunch	Dietmar Kroener Discontinuous Galerkin methods	Tea
15.07.2005 Friday	M. Vanninathan On ill posed cauchy problems	Tea	Phoolan Prasad Kinematical conservation laws and applications	Lunch	Dietmar Kroener Well balanced schemes for conservation laws	Tea

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