

PROGRAM SCHEDULE
CCIS 2010

SHORT TALKS (ST)

Time for each short-talk: 16min + 4min (for questions)

Tuesday 24

ST 1: 14:30-15:10

(Chair: **O Parolini**) (**Room I**)

14:30-14:50

Protein folding and aggregation from microcanonical Monte Carlo simulations

Rafael B. Frigori, Nelson A. Alves

14:50-15:10

Knowledge Discovery in Databases Using Rough SelfOrganizing Map

Renato J. Sassi

ST 2: 15:40-16:20

(Chair: **S. Sandri**) (**Room I**)

15:40-16:00

Critical software testing based on statecharts modeling (Invited)

Nandamudi L. Vijaykumar

16:00-16:20

Scientific Computing with MATLAB

Alberto Shimahara (Oppencad Exhibition)

Thursday 26

ST 3: 11:35-12:35

Room I (Chair: **C. B. Medeiros**)

11:35-11:55

The impact factor as a factor of impact: Science assessment (Invited)

Nei Y. Soma

11:55-12:15

A Ntier application to improve the integration of transport management systems in the Electronic Transport Knowledge: a case of study

T.S. Suzuki, L.C.S. Romualdo, E. Baptista

12:15-12:35

"Potenciat model" transformation and socioeconomic relationship under a complexity science approach

Nlara C. Palma and Romulo Krafta

Room II (Chair: **A Fazenda**)

11:35-11:55

Using q-statistics estimation in ecological dynamics

E.Borges

11:55-12:15

Mathematical modelling and simulation applied to the control of atmospheric carbon emissions

Marco A.L. Caetano, Takashi Yoneyama and Douglas F.M. Gherardi

12:15-12:35

Identifying hilltop protected areas by using a directed acyclic graph algorithm

Leandro S. Lima, Britaldo S. Filho, Hermann O. Rodrigues

Room III (Chair: **E. Rempel**)

11:35-11:55

Anisotropic density estimator: applications for image processing

Eraldo P. Marinho

11:55-12:15

Numerical simulations and Analysis of Fingering Patterns

Mariana Baroni

12:15-12:35

A Graphbase adaptive mesh refinement for cellcentered triangular finite volume discretizations

Sanderson L. Gonzaga de Oliveira, Mauricio Kischinhevsky

Thursday 26

ST 4: 14:50-15:50

Room I (Chair: **R. Dilão**)

14:50-15:10

Simulating nematic liquid crystal dynamics

J. Menezes, B. F. de Oliveira, P. P. Avelino, F. Moraes, J. C. R. E. Oliveira

15:10-15:30

Forced turbulent heat convection in a square duct with variable temperature in the contour

Gustavo Ronceros Rivas, Ézio Castejon Garcia

15:30-15:50

The Petrov-Galerkin formulation with adaptive timestep applied to a convective drying model

Tatiane R. Amaral, Rudolf Huebner, José Leôncio F. Souza, João Francisco A. Vitor

Room II (Chair: **E. Shiguemori**)

14:50-15:10

Computational Aspects in Mapping risk areas for São Paulo Metropolitan Zone applying the new HAND Terrain Model

A Silveira, A.D. Nobre, G. Rodrigues

15:10-15:30

High resolution regional meteorological model over South America with high computational scalability

Alvaro L. Fazenda, Daniel M. Katsurayama, Luiz F. Rodrigues, Saulo R. Freitas, Jairo Panetta, Demerval S. Moreira

15:30-15:50

A rulebased satellite simulator for use in flight operations planning

Jun Tominaga, Mauricio G. V. Ferreira, Jose D. S. da Silva

Room III (Chair: **G. Francisco**)

(Special Session on Time Series)

14:50-15:10

Extracting Information from Neuronal Response of Epileptic Patients

Hilda A. Cerdeira

15:10-15:30

Computational time series analysis in biosystems

Koichi Sameshima

15:30-15:50

Empirical data analysis software prototype

Gerson Francisco

Thursday 26

ST 5: 16:20-17:00

Room I (Chair: **J.C. Becceneri**)

(Special Session on Fuzzy Logic)

16:20-16:40

Using Similarity Relations in Case-Base Reasoning Systems (Invited)

Sandra Sandri

16:40-17:00

Comparison between K-means and fuzzy C-means methods on aerial images pre-processing

Mateus Habermann , Leonardo R. J. Santos , Rodrigo A. Scarpel , Élcio H. Shiguemori

Room II (Chair: **M.A. Bolzan**)

(Special Session on Wavelets)

16:20-16:40

Multiresolution analysis in the numerical resolution of partial differential equations (Invited)

M.O. Domingues

16:40-17:00

Magnetogram analysis using wavelet decomposition

O Mendes & M. Domingues