

19th Brazilian Symposium on Artificial Intelligence Final Program

Sunday October 26th

Joint Conference Opening Section - 18:30-19:00h

Welcome Cocktail - 20:00-21:30h

SBIA COMPLETE PROGRAM			
TIME	SUNDAY 27th	Tuesday 28th	Wednesday 29th
8:30-10:00H	Tutorial (first part) - Luc De Raedt	Tutorial (first part) - Stephen Muggleton / Nikola Kasabov (2 tutorials in parallel)	Tutorial (first part) - Raymond Mooney
10:00-10:30H	COFFEE BREAK		
10:30-12:00H	Tutorial (second part) - Luc De Raedt	Tutorial (second part) - Stephen Muggleton / Nikola Kasabov (2 tutorials in parallel)	Tutorial (second part) - Raymond Mooney
12:00-14:00	LUNCH		
14:00-16:00	Papers (2 sessions in parallel) - S1 and S2	Papers (2 sessions in parallel) - S3 and S4	Papers (2 sessions in parallel) – S5 and S6
16:00-16:30H	COFFEE BREAK		
16:30-17:30H	Invited Talk 1 - Raymond Mooney	Invited Talk 1 - Fedric Ham	Invited Talk 1 - Stephen Muggleton
17:45-18:45H	Invited Talk 2 - Nikola Kasabov	Invited Talk 2 - Luc De Raedt	

18:00-20:00H		Meeting CEIA / CERN	
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Paper Sessions

Monday 27

Session 1: Chairs: Fabio Cozman (USP) / Francisco Carvalho (UFPE)

Machine Learning and DM - 3 papers

A Robust Methodology for Comparing Performances of Clustering Validity Criteria - Lucas Vendramin (University of São Paulo), Ricardo Campello (SCC / ICMC / USP), Eduardo Hruschka (University of São Paulo)

Missing value imputation using a semi-supervised rank aggregation approach - Edson Matsubara (Universidade de São Paulo), Ronaldo Prati (University of São Paulo), Gustavo Batista (University of São Paulo), Maria Monard (Universidade de São Paulo)

Bi-objective Memetic Evolutionary Algorithm for Automated Microwave Filter Synthesis - Maria José Dantas (University of Brasília), Leonardo Brito (University of Goias), Paulo Carvalho (University of Brasília), Paulo César Machado (EEEC/UFG)

Computer Vision and Pattern Recognition - 2 papers

Multi-Dimensional Dynamic Time Warping for Image Texture Similarity - Rodrigo Mello (University of São Paulo), Iker Gondra (St. Francis Xavier University)

Discriminant Eigenfaces: A New Ranking Method for Principal Components Analysis - Carlos Thomaz (Centro Universitario da FEI), Gilson Giraldi (National Laboratory for Scientific Computing)

Session 2: Chairs: Jaime Sichman (USP) / Sheila Veloso (UERJ)

Distributed AI: Autonomous Agents, Multi-Agent Systems and Game Theory - 3 papers

Re-Routing Agents in an Abstract Traffic Scenario - Franziska Klügl (Universität Würzburg), Ana Bazzan (UFRGS)

Towards the Self-regulation of Personality-based Social Exchange Processes in Multiagent Systems - Diego Pereira (Universidade Católica de Pelotas), Luciano Gonçalves (Universidade Católica de Pelotas), Graçaliz Dimuro (Universidade Católica de Pelotas), Antônio Carlos da Rocha Costa (UCPEL)

Enhancing the interaction between agents and users - Marcelo Armentano (UNICEN), Silvia Schiaffino (ISISTAN - Universidad Nacional del Centro de la Pcia. de Buenos Aires), Analia Amandi (ISISTAN, UNCPBA)

Knowledge Representation and Reasoning - 1 paper

Proving Epstemic and Temporal Properties of Knowledge Based Programs - Mário Benevides (COPPE/Sistemas - Universidade Federal do Rio de Janeiro (UFRJ)), Carla Delgado (UFRJ), Michel Carlini (UFRJ)

Natural Language Processing - 1 paper

An Experiment in Spanish-Portuguese Statistical Machine Translation - Wilker Ferreira Aziz (Universidade de Sao Paulo USP-ICMC), Ivandré Paraboni (USP), Thiago Pardo (Universidade de São Paulo)

Tuesday 28

Session 3: Chairs: Alipio Jorge (U. Porto) / Paulo Veloso (UFRJ)

Machine Learning and DM - 2 papers

Fitting a Least Absolute Deviation Regression Model on Symbolic Interval Data - Maia André (Centro de Informatica - CIn/UFPE), Francisco De Carvalho (Centro de Informatica - CIn/UFPE)

A learning function for parameter reduction in spiking neural networks with radial basis function - Alexandre Simões (UNESP - Universidade Estadual Paulista), Anna Costa (USP - Escola Politécnica)

Knowledge Representation and Reasoning - 3 papers

A Case for Numerical Taxonomy in Case-Based Reasoning - Luis Silva (University College London), John Campbell (University College London), Nicholas Eastaugh (University of Oxford), Bernard F. Buxton (University College London)

Methodical Construction of Symbolic Diagrams - Paulo Veloso (UFRJ), Sheila Veloso (UERJ)

Toward Short and Structural ALC-Reasoning Explanations: A Sequent Calculus Approach - Alexandre Rademaker (PUC-Rio), Edward Hermann Haeusler (PUC-Rio)

Session 4: Chairs: Ana Bazzan (UFRGS) / Carlos Thomaz (FEI)

Distributed AI: Autonomous Agents, Multi-Agent Systems and Game Theory - 3 papers

Optimizing preferences within groups: a case study on travel recommendation -Fabiana Lorenzi (Universidade Luterana do Brasil), Fernando Santos (Universidade Federal do Rio Grande do Sul (UFRGS)), Paulo Roberto Ferreira Jr. (UFRGS), Ana Bazzan (UFRGS)

Individual and Social Behaviour in the IPA Market with RL - Eduardo Gomes (Swinburne University of Technology), Ryszard Kowalczyk (Swinburne University)

A Draughts Learning System Based on Neural Networks and Temporal Differences: The Impact of an Efficient Tree-Search Algorithm - Gutierrez Caixeta(Federal University of Uberlandia), Rita Silva Julia (Federal University of Uberlândia)

Computer Vision and Pattern Recognition - 2 papers

Audio-to-Visual Conversion via HMM Inversion for Speech-driven Facial Animation- Lucas Daniel Terissi (Universidad Nacional de Rosario), Juan Carlos Gomez (Universidad Nacional de Rosario)

Density of Closed Balls in Real-valued and Autometrized Boolean Spaces for Clustering Applications - Carlos Gonzalez (University of Sorocaba), Waldemar Bonventi Jr. (Faculdade de Tecnologia de Sorocaba), Andrea Lucia Vieira Rodrigues (Universidade de Sorocaba)

Wednesday 29

Session 5: Chair: Marcelo Finger (USP) / Mario Benevides(UFRJ)

Knowledge Representation and Reasoning- 2 papers

Detecting Code Evolution in Programming Learning - Thais Castro (Universidade Federal do Amazonas), Hugo Fuks (PUC-Rio), Alberto Castro (Universidade Federal do Amazonas - UFAM)

Revising Specifications with CTL Properties using Bounded Model Checking - Marcelo Finger (Universidade de São Paulo), Renata Wassermann(IME-USP)

Natural Language Processing - 1 paper

On the automatic learning of bilingual resources: some relevant factors for machine translation - Helena Caseli (University of São Paulo), Maria das Graças Volpe Nunes (University of São Paulo), Mikel Forcada (University of Alicante)

Session 6: Chairs: Jacques Wainer (UNICAMP) / Luiz Chaimowicz (UFMG)

Distributed AI: Autonomous Agents, Multi-Agent Systems and Game Theory - 2 papers

An Experimental Approach to Online Opponent Modeling in Texas Hold'em Poker - Dinis Felix (Faculdade de Engenharia da Universidade do Porto), Luís Paulo Reis (Universidade do Porto)

Probabilistic Multiagent Patrolling - Tiago Sak (State University of Campinas), Jacques Wainer (Universidade Estadual de Campinas), Siome Goldenstein (UNICAMP)

Robotics - 2 papers

Evolving an Artificial Homeostatic System - Renan Cipriano Moioli (State University of Campinas), Patrícia Vargas (University of Sussex), Fernando Von Zuben (University of Campinas (Unicamp)), Phil Husbands (University of Sussex)

Experiments in the Coordination of Large Groups of Robots - Leandro Marcolino (Universidade Federal de Minas Gerais), Luiz Chaimowicz (Universidade Federal de Minas Gerais)