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Ana L.C. Bazzan Sofiane Labidi (Eds.)

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# Preface

SBIA, the Brazilian Symposium on Artificial Intelligence, is a biennial event intended to be the main forum of the AI community in Brazil. The SBIA 2004 was the 17th issue of the series initiated in 1984. Since 1995 SBIA has been accepting papers written and presented only in English, attracting researchers from all over the world. At that time it also started to have an international program committee, keynote invited speakers, and proceedings published in the Lecture Notes in Artificial Intelligence (LNAI) series of Springer (SBIA 1995, Vol. 991, SBIA 1996, Vol. 1159, SBIA 1998, Vol. 1515, SBIA 2000, Vol. 1952, SBIA 2002, Vol. 2507).

SBIA 2004 was sponsored by the Brazilian Computer Society (SBC). It was held from September 29 to October 1 in the city of São Luis, in the northeast of Brazil, together with the Brazilian Symposium on Neural Networks (SBRN). This followed a trend of joining the AI and ANN communities to make the joint event a very exciting one. In particular, in 2004 these two events were also held together with the IEEE International Workshop on Machine Learning and Signal Processing (MMLP), formerly NNLP.

The organizational structure of SBIA 2004 was similar to other international scientific conferences. The backbone of the conference was the technical program which was complemented by invited talks, workshops, etc. on the main AI topics.

The call for papers attracted 209 submissions from 21 countries. Each paper submitted to SBIA was reviewed by three referees. From this total, 54 papers from 10 countries were accepted and are included in this volume. This made SBIA a very competitive conference with an acceptance rate of 25.8%. The evaluation of this large number of papers was a challenge in terms of reviewing and maintaining the high quality of the preceding SBIA conferences. All these goals would not have been achieved without the excellent work of the members of the program committee – composed of 80 researchers from 18 countries – and the auxiliary reviewers.

Thus, we would like to express our sincere gratitude to all those who helped make SBIA 2004 happen. First of all we thank all the contributing authors; special thanks go to the members of the program committee and reviewers for their careful work in selecting the best papers. Thanks go also to the steering committee for its guidance and support, to the local organization people, and to the students who helped with the website design and maintenance, the papers submission site, and with the preparation of this volume. Finally, we would like to thank the Brazilian funding agencies and Springer for supporting this book.

Porto Alegre, September 2004

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SBIA 2004 was held in conjunction with SBRN 2004 and with IEEE MMLP 2004. These events were co-organized by all co-chairs involved in them.

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# Table of Contents

## Logics, Planning, and Theoretical Methods

On Modalities for Vague Notions . . . . .	1
<i>Mario Benevides, Carla Delgado, Renata P. de Freitas, Paulo A.S. Veloso, and Sheila R.M. Veloso</i>	
Towards Polynomial Approximations of Full Propositional Logic . . . . .	11
<i>Marcelo Finger</i>	
Using Relevance to Speed Up Inference. Some Empirical Results . . . . .	21
<i>Joselyto Riani and Renata Wassermann</i>	
A Non-explosive Treatment of Functional Dependencies Using Rewriting Logic . . . . .	31
<i>Gabriel Aguilera, Pablo Cordero, Manuel Enciso, Angel Mora, and Inmaculada Perez de Guzmán</i>	
Reasoning About Requirements Evolution Using Clustered Belief Revision . . . . .	41
<i>Odinaldo Rodrigues, Artur d'Avila Garcez, and Alessandra Russo</i>	
Analysing AI Planning Problems in Linear Logic – A Partial Deduction Approach . . . . .	52
<i>Peep Künigas</i>	
Planning with Abduction: A Logical Framework to Explore Extensions to Classical Planning . . . . .	62
<i>Silvio do Lago Pereira and Leliane Nunes de Barros</i>	
High-Level Robot Programming: An Abductive Approach Using Event Calculus . . . . .	73
<i>Silvio do Lago Pereira and Leliane Nunes de Barros</i>	

## Search, Reasoning, and Uncertainty

Word Equation Systems: The Heuristic Approach . . . . .	83
<i>César Luis Alonso, Fátima Drubi, Judith Gómez-García, and José Luis Montaña</i>	
A Cooperative Framework Based on Local Search and Constraint Programming for Solving Discrete Global Optimisation . . . . .	93
<i>Carlos Castro, Michael Moossen, and María Cristina Riff</i>	

Machine Learned Heuristics to Improve Constraint Satisfaction ..... 103  
*Marco Correia and Pedro Barahona*

Towards a Natural Way of Reasoning ..... 114  
*José Carlos Loureiro Ralha and Célia Ghedini Ralha*

Is Plausible Reasoning a Sensible Alternative  
for Inductive-Statistical Reasoning? ..... 124  
*Ricardo S. Silvestre and Tarcísio H.C. Pequeno*

Paraconsistent Sensitivity Analysis for Bayesian Significance Tests ..... 134  
*Julio Michael Stern*

## **Knowledge Representation and Ontologies**

An Ontology for Quantities in Ecology ..... 144  
*Virgínia Brilhante*

Using Color to Help in the Interactive Concept Formation ..... 154  
*Vasco Furtado and Alexandre Cavalcante*

Propositional Reasoning for an Embodied Cognitive Model ..... 164  
*Jerusa Marchi and Guilherme Bittencourt*

A Unified Architecture to Develop Interactive Knowledge Based Systems .. 174  
*Vlória Pinheiro, Elizabeth Furtado, and Vasco Furtado*

## **Natural Language Processing**

Evaluation of Methods for Sentence and Lexical Alignment  
of Brazilian Portuguese and English Parallel Texts ..... 184  
*Helena de Medeiros Caseli, Aline Maria da Paz Silva,  
and Maria das Graças Volpe Nunes*

Applying a Lexical Similarity Measure  
to Compare Portuguese Term Collections ..... 194  
*Marcirio Silveira Chaves and Vera Lúcia Strube de Lima*

Dialog with a Personal Assistant ..... 204  
*Fabício Enembreck and Jean-Paul Barthès*

Applying Argumentative Zoning in an Automatic Critiquer  
of Academic Writing ..... 214  
*Valéria D. Feltrim, Jorge M. Pelizzoni, Simone Teufel,  
Maria das Graças Volpe Nunes, and Sandra M. Aluísio*

DiZer: An Automatic Discourse Analyzer for Brazilian Portuguese ..... 224  
*Thiago Alexandre Salgueiro Pardo, Maria das Graças Volpe Nunes,  
and Lucia Helena Machado Rino*

A Comparison of Automatic Summarizers of Texts in Brazilian Portuguese .....	235
<i>Lucia Helena Machado Rino, Thiago Alexandre Salgueiro Pardo, Carlos Nascimento Silla Jr., Celso Antônio Alves Kaestner, and Michael Pombo</i>	

## Machine Learning, Knowledge Discovery, and Data Mining

Heuristically Accelerated Q-Learning: A New Approach to Speed Up Reinforcement Learning .....	245
<i>Reinaldo A.C. Bianchi, Carlos H.C. Ribeiro, and Anna H.R. Costa</i>	

Using Concept Hierarchies in Knowledge Discovery .....	255
<i>Marco Eugênio Madeira Di Beneditto and Leliane Nunes de Barros</i>	

A Clustering Method for Symbolic Interval-Type Data Using Adaptive Chebyshev Distances .....	266
<i>Francisco de A.T. de Carvalho, Renata M.C.R. de Souza, and Fabio C.D. Silva</i>	

An Efficient Clustering Method for High-Dimensional Data Mining .....	276
<i>Jae-Woo Chang and Yong-Ki Kim</i>	

Learning with Drift Detection .....	286
<i>João Gama, Pedro Medas, Gladys Castillo, and Pedro Rodrigues</i>	

Learning with Class Skews and Small Disjuncts .....	296
<i>Ronaldo C. Prati, Gustavo E.A.P.A. Batista, and Maria Carolina Monard</i>	

Making Collaborative Group Recommendations Based on Modal Symbolic Data .....	307
<i>Sérgio R. de M. Queiroz and Francisco de A.T. de Carvalho</i>	

Search-Based Class Discretization for Hidden Markov Model for Regression .....	317
<i>Kate Revoredo and Gerson Zaverucha</i>	

SKDQL: A Structured Language to Specify Knowledge Discovery Processes and Queries .....	326
<i>Marcelino Pereira dos Santos Silva and Jacques Robin</i>	

## Evolutionary Computation, Artificial Life, and Hybrid Systems

Symbolic Communication in Artificial Creatures: An Experiment in Artificial Life .....	336
<i>Angelo Loula, Ricardo Gudwin, and João Queiroz</i>	

What Makes a Successful Society?  
 Experiments with Population Topologies in Particle Swarms . . . . . 346  
*Rui Mendes and José Neves*

Splinter: A Generic Framework  
 for Evolving Modular Finite State Machines . . . . . 356  
*Ricardo Nastas Acras and Silvia Regina Vergilio*

An Hybrid GA/SVM Approach for Multiclass Classification  
 with Directed Acyclic Graphs . . . . . 366  
*Ana Carolina Lorena and André C. Ponce de Leon F. de Carvalho*

Dynamic Allocation of Data-Objects in the Web,  
 Using Self-tuning Genetic Algorithms . . . . . 376  
*Joaquín Pérez O., Rodolfo A. Pazos R., Graciela Mora O.,  
 Guadalupe Castilla V., José A. Martínez., Vanesa Landero N.,  
 Héctor Fraire H., and Juan J. González B.*

Detecting Promising Areas by Evolutionary Clustering Search . . . . . 385  
*Alexandre C.M. Oliveira and Luiz A.N. Lorena*

A Fractal Fuzzy Approach to Clustering Tendency Analysis . . . . . 395  
*Sarajane Marques Peres and Márcio Luiz de Andrade Netto*

On Stopping Criteria for Genetic Algorithms . . . . . 405  
*Martín Safe, Jessica Carballido, Ignacio Ponzoni, and Nélida Brignole*

A Study of the Reasoning Methods Impact on Genetic Learning  
 and Optimization of Fuzzy Rules . . . . . 414  
*Pablo Alberto de Castro and Heloisa A. Camargo*

Using Rough Sets Theory and Minimum Description Length Principle  
 to Improve a  $\beta$ -TSK Fuzzy Revision Method for CBR Systems . . . . . 424  
*Florentino Fdez-Riverola, Fernando Díaz, and Juan M. Corchado*

**Robotics and Computer Vision**

Forgetting and Fatigue in Mobile Robot Navigation . . . . . 434  
*Luís Correia and António Abreu*

Texture Classification Using the Lempel-Ziv-Welch Algorithm . . . . . 444  
*Leonardo Vidal Batista and Moab Mariz Meira*

A Clustering-Based Possibilistic Method for Image Classification . . . . . 454  
*Isabela Drummond and Sandra Sandri*

An Experiment on Handshape Sign Recognition  
 Using Adaptive Technology: Preliminary Results . . . . . 464  
*Hemerson Pistori and João José Neto*



## Autonomous Agents and Multi-agent Systems

Recent Advances on Multi-agent Patrolling . . . . .	474
<i>Alessandro Almeida, Geber Ramalho, Hugo Santana, Patrícia Tedesco, Talita Menezes, Vincent Corruble, and Yann Chevaleyre</i>	
On the Convergence to and Location of Attractors of Uncertain, Dynamic Games . . . . .	484
<i>Eduardo Camponogara</i>	
Norm Consistency in Electronic Institutions . . . . .	494
<i>Marc Esteva, Wamberto Vasconcelos, Carles Sierra, and Juan A. Rodríguez-Aguilar</i>	
Using the MOISE <sup>+</sup> for a Cooperative Framework of MAS Reorganisation . . . . .	506
<i>Jomi Fred Hübner, Jaime Simão Sichman, and Olivier Boissier</i>	
A Paraconsistent Approach for Offer Evaluation in Negotiations . . . . .	516
<i>Fabiano M. Hasegawa, Bráulio C. Ávila, and Marcos Augusto H. Shmeil</i>	
Sequential Bilateral Negotiation . . . . .	526
<i>Orlando Pinho Jr., Geber Ramalho, Gustavo de Paula, and Patrícia Tedesco</i>	
Towards to Similarity Identification to Help in the Agents' Negotiation . . .	536
<i>Andreia Malucelli and Eugénio Oliveira</i>	
<b>Author Index . . . . .</b>	<b>547</b>