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The International Symposium on Distributed Computing and Artificial Intelligence 2012 (DCAI 2012) is a stimulating and productive forum where the scientific community can work towards future cooperation in Distributed Computing and Artificial Intelligence areas.

This conference is a forum to present applications of innovative techniques for solving complex problems. Artificial intelligence is changing our society. Its application in distributed environments, such as the internet, electronic commerce, environment monitoring, mobile communications, wireless devices, distributed computing, to mention only a few, is continuously increasing, becoming an element of high added value with social and economic potential, in industry, quality of life and research. These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses. The exchange of ideas between scientists and technicians from both the academic and industry sector is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society.

This symposium is continuing to grow and prosper in its role as one of the premier conferences devoted to the quickly changing landscape of distributed computing, artificial intelligence and the application of AI to distributed systems. This year’s technical program will present both high quality and diversity, with contributions in well-established and evolving areas of research.

This year, 178 papers were submitted from over 22 different countries (Portugal, Japan, Spain, South Korea, Australia, United Kingdom, Malaysia, Canada, Algeria, Germany, Russia, China, Finland, Brazil, France, Iran, Switzerland, Mexico, Tunisia, Senegal, Poland, Italy), representing a truly “wide area network” of research activity. The DCAI’12 technical program has selected 92 papers (89 long papers, 3 short papers). For this particular occasion, four special issues published by the Journal of Artificial Intelligence (IJAI), the International Journal of Imaging and Robotics (IJIR), the International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI) and the International Journal of Management and Production Engineering Review (MPER), will cover extended versions of the most highly regarded works.

The present edition brings together past experience, current work and promising future trends associated with distributed computing, artificial intelligence and their application in order to provide efficient solutions to real problems. This symposium is organized by the Bioinformatics, Intelligent System and Educational Technology Research Group (http://biseite.usal.es/) of the University of Salamanca. The present edition was be held in Salamanca, Spain, from 28th to 30th March 2012.
We thank the sponsors (IEEE Systems Man and Cybernetics Society Spain, AEPIA Asociación Española para la Inteligencia Artificial, APPIA Associação Portuguesa Para a Inteligência Artificial, CNRS Centre national de la recherche scientifique), the Local Organization members and the Program Committee members for their hard work, which was essential for the success of DCAI’2.

March 2012
Salamanca

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University of Salamanca, Spain  
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University of Burgos, Spain  
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<table>
<thead>
<tr>
<th>Name</th>
<th>Institution and Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toru Yamamoto</td>
<td>Hiroshima University, Japan</td>
</tr>
<tr>
<td>Vicente Botti</td>
<td>Politecnich University of Valencia, Spain</td>
</tr>
<tr>
<td>Vicente Julián</td>
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</tr>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Yi Fang</td>
<td>Purdue University, USA</td>
</tr>
<tr>
<td>Yusuke Nojima</td>
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</tr>
<tr>
<td>Yutaka Maeda</td>
<td>Kansai University, Japan</td>
</tr>
<tr>
<td>Zbigniew Pasek</td>
<td>IMSE/University of Windsor, Canada</td>
</tr>
</tbody>
</table>
Contents

Artificial Intelligence Applications

Mixed Odor Classification for QCM Sensor Data by Neural Networks ..................................................... 1
Sigeru Omatu, Hideo Araki, Toru Fujinaka, Michifumi Yoshioka, Hiroyuki Nakazumi

A Predictive Search Method of FAQ Corresponding to a User’s Incomplete Inquiry by Statistical Model of Important Words Co-occurrence ................................................................. 9
Masaki Samejima, Yuichi Saito, Masanori Akiyoshi, Hironori Oka

Decision Making for Sustainable Manufacturing Utilizing a Manufacturing Technology Database ........................................... 17
Nozomu Mishima

Solving Time-Dependent Traveling Salesman Problems Using Ant Colony Optimization Based on Predicted Traffic ......................... 25
Hitoshi Kanoh, Junichi Ochiai

Modeling Shared-Memory Metaheuristic Schemes for Electricity Consumption ................................................................. 33
Luis-Gabino Cutillas-Lozano, José-Matías Cutillas-Lozano, Domingo Giménez

Virtual Laboratory for the Training of Health Workers in Italy .......... 41
Antonella Gorrino, Giovanni De Gasperis

The “Good” Brother: Monitoring People Activity in Private Spaces ...... 49
Jose R. Padilla-López, Francisco Flórez-Revuelta, Dorothy N. Monekosso, Paolo Remagnino
Distribution and Selection of Colors on a Diorama to Represent Social Issues Using Cultural Algorithms and Graph Coloring .............................. 57
Víctor Ricardo Cruz-Álvarez, Fernando Montes-Gonzalez, Alberto Ochoa, Rodrigo Edgar Palacios-Leyva

‘Believable’ Agents Build Relationships on the Web .................................. 65
John Debenham, Simeon Simoff

Speed-Up Method for Neural Network Learning Using GPGPU .................. 73
Yuta Tsuchida, Michifumi Yoshioka, Sigeru Omatu

A Fast Heuristic Solution for the Commons Game .................................... 81
Rokhsareh Sakhravi, Masoud T. Omran, B. John Oommen

Picture Information Shared Conversation Agent: Pictgent .......................... 91
Miki Ueno, Naoki Mori, Keinosuke Matsumoto

A Mixed Portfolio Selection Problem .......................................................... 95
Irina Georgescu, Jani Kinnunen

Towards a Service Based on “Train-to-Earth” Wireless Communications for Remotely Managing the Configuration of Applications Inside Trains ......................................................... 103
Itziar Salaberria, Roberto Carballedo, Asier Perallos

CDEBMTE: Creation of Diverse Ensemble Based on Manipulation of Training Examples ................................................................. 113
Hamid Parvin, Sajad Parvin, Zahra Rezaei, Moslem Mohamadi

User-Centric Technologies and Applications

Enhancing the Localization Precision in Aircraft Parking Areas of Airports through Advanced Ray-Tracing Techniques .............................. 121
Antonio del Corte, Oscar Gutierrez, José Manuel Gómez

Variability Compensation Using NAP for Unconstrained Face Recognition .......................................................... 129
Pedro Tome, Ruben Vera-Rodriguez, Julian Fierrez, Javier Ortega-García

Comparing Features Extraction Techniques Using J48 for Activity Recognition on Mobile Phones ......................................................... 141
Gonzalo Blázquez Gil, Antonio Berlanga de Jesús, José M. Molina Lopéz

INEF12Basketball Dataset and the Group Behavior Recognition Issue ............................ 151
Alberto Pozo, Jesús García, Miguel A. Patricio
Development of Interactive Virtual Voice Portals to Provide Municipal Information ................................................... 161

David Griol, Marta García-Jiménez

Gesture Recognition Using Mobile Phone’s Inertial Sensors ......... 173

Xian Wang, Paula Tarrío, Eduardo Metola, Ana M. Bernardos, José R. Casar

Towards a Lightweight Mobile Semantic-Based Approach for Enhancing Interaction with Smart Objects ......................... 185
Josué Iglesias, Ana M. Bernardos, Luca Bergesio, Jesús Cano, José R. Casar

Multiagent Systems

Using GPU for Multi-agent Multi-scale Simulations ..................... 197
G. Laville, K. Mazouzi, C. Lang, N. Marilleau, L. Philippe

MultiAgent Systems for Production Planning and Control in Supply Chains ................................................................. 205
Faten Ben Hmida, Anne Seguy, Rémy Dupas

Multi-agent Bidding Mechanism with Contract Log Learning Functionality ................................................................. 213
Kazuhiro Abe, Masanori Akiyoshi, Norihisa Komoda

Bio-inspired Self-adaptive Agents in Distributed Systems ............... 221
Ichiro Satoh

PANGEA – Platform for Automatic coNstruction of orGanizations of intElligent Agents .................................................. 229
Carolina Zato, Gabriel Villarrubia, Alejandro Sánchez, Ignasi Barri, Edgar Rubión, Alicia Fernández, Carlos Rebate, José A. Cabo, Téresa Álamos, Jesús Sanz, Joaquín Seco, Javier Bajo, Juan M. Corchado

An OOP Agent-Based Model for the Activated Studge Process Using MATLAB ............................................................... 241
María Pereda, Jesús M. Zamarreño

A Case of Dictator Game in Public Finances–Fiscal Illusion between Agents ................................................................. 249
Paulo Mourão

Decentralised Regression Model for Intelligent Forecasting in Multi-agent Traffic Networks ............................................. 255
Jelena Fiosina
Multi-agent Applications in a Context-Aware Global Software Development Environment .................................................. 265
Helio H.L.C. Monte-Alto, Alberto B. Biasão, Lucas O. Teixeira, Elisa H.M. Huzita

SPAGE: An Action Generation Engine to Support Spatial Patterns of Interaction in Multi-agent Simulations ........................................ 273
Kavin Preethi Narasimhan

A Multi-agent Recommender System ........................................... 281
A. Jorge Morais, Eugénio Oliveira, Alípio Mário Jorge

SGP: Security by Guaranty Protocol for Ambient Intelligence Based Multi Agent Systems ..................................................... 289
Nardjes Bouchemal, Ramdane Maamri

Distributed Computing, Grid, Cloud Computing

Discrete Dynamical System Model of Distributed Computing with Embedded Partial Order .................................................. 297
Susmit Bagchi

Evaluation of High Performance Clusters in Private Cloud Computing Environments ......................................................... 305
J. Gómez, E. Villar, G. Molero, A. Cama

Power Conservation in Wired Wireless Networks ........................ 313
John Debenham, Simeon Simoff

Risk Assessment Modeling in Grids at Component Level: Considering Grid Resources as Repairable ........................................... 321
Asif Sangrasi, Karim Djemame

R & D Cloud CEIB: Management System and Knowledge Extraction for Bioimaging in the Cloud ...................................... 331
Jose Maria Salinas, Maria de la Iglesia-Vaya, Luis Marti Bonmati, Rosa Valenzuela, Miguel Cazorla

Performance Comparison of Hierarchical Checkpoint Protocols Grid Computing ............................................................. 339
Ndeye Massata Ndiaye, Pierre Sens, Ousmane Thiare

A Scientific Computing Environment for Accessing Grid Computing Systems Using Cloud Services ................................. 347
Mariano Raboso, José A. de la Varga, Myriam Codes, Jesúis Alonso, Lara del Val, María I. Jiménez, Alberto Izquierdo, Juan J. Villacorta
Grid Computing and CBR Deployment: Monitoring Principles for a Suitable Engagement .......................... 355
Luis F. Castillo, Gustavo Isaza, Manuel Glez Bedia, Miguel Aguilera, Juan David Correa

A Low-Cost Solution to Distribute Repetitive and Independent Tasks by Clustering .......................... 363
Ignacio Traverso Ribón, Mª Ángeles Cifredo Chacón, Ángel Quirós-Olozabal, Juan Barrientos Villar

Bioinformatics, Biomedical Systems

Identifying Gene Knockout Strategies Using a Hybrid of Bees Algorithm and Flux Balance Analysis for in Silico Optimization of Microbial Strains ................................................................. 371
Yee Wen Choon, Mohd Saberi Mohamad, Safaai Deris, Chuii Khim Chong, Lian En Chai, Zuwairie Ibrahim, Sigeru Omatu

Inferring Gene Regulatory Networks from Gene Expression Data by a Dynamic Bayesian Network-Based Model .......................... 379
Lian En Chai, Mohd Saberi Mohamad, Safaai Deris, Chuii Khim Chong, Yee Wen Choon, Zuwairie Ibrahim, Sigeru Omatu

A Hybrid of SVM and SCAD with Group-Specific Tuning Parameter for Pathway-Based Microarray Analysis ...................... 387
Muhammad Faiz Misman, Mohd Saberi Mohamad, Safaai Deris, Raja Nurul Mardhiah Raja Mohamad, Siti Zaiton Mohd Hashim, Sigeru Omatu

A Reliable ICT Solution for Organ Transport Traceability and Incidences Reporting Based on Sensor Networks and Wireless Technologies .......................................................... 395
Asier Moreno, Ignacio Angulo

Applying Lemur Query Expansion Techniques in Biomedical Information Retrieval ........................................ 403
A.R. Rivas, L. Borrajo, E.L. Iglesias, R. Romero

Genetic Evaluation of the Class III Dentofacial in Rural and Urban Spanish Population by AI Techniques .................... 411
Marta Muñoz, Manuel Rodríguez, Mª Encarnación Rodríguez, Sara Rodríguez

A Methodology for Learning Validation in Neural Cultures .......... 421
V. Lorente, F. de la Paz, E. Fernández, J.M. Ferrández
Intelligent Working Environments, Handling of Medical Data and the Ethics of Human Resources ........................................ 429
Céline Ehrwein Nihan

Data Mining, Information Extraction, Semantic, Knowledge Representation

An Interpretable Guideline Model to Handle Incomplete Information ................................................................. 437
Tiago Oliveira, João Neves, Ângelo Costa, Paulo Novais, José Neves

Modeling a Mobile Robot Using a Grammatical Model ................. 445
Gabriel López-García, Javier Gallego-Sánchez, J. Luis Dalmau-Espert, Rafael Molina-Carmona, Patricia Compañ-Rosique

A Classification Method of Knowledge Cards in Japanese and Chinese by Using Domain-Specific Dictionary ............... 453
Xiaopeng Liu, Li Cai, Masanori Akiyoshi, Norihisa Komoda

A Taxonomy Construction Approach Supported by Web Content .... 461
Ana B. Rios-Alvarado, Ivan Lopez-Arevalo, Victor Sosa-Sosa

Semantic Graph-Based Approach for Document Organization ........ 469
Erika Velazquez-Garcia, Ivan Lopez-Arevalo, Victor Sosa-Sosa

Identifying Concepts on Specific Domain by a Unsupervised Graph-Based Approach ................................................. 477
Franco Rojas-Lopez, Ivan Lopez-Arevalo, Victor Sosa-Sosa

The Problem of Learning Non-Taxonomic Relationships of Ontologies from Text ................................................. 485
Ivo Serra, Rosario Girardi, Paulo Novais

Improving Persian Text Classification and Clustering Using Persian Thesaurus .......................................................... 493
Hamid Parvin, Atousa Dahbashi, Sajad Parvin, Behrouz Minaei-Bidgoli

Towards Incremental Knowledge Warehousing and Mining ........ 501
Habiba Drias, Asma Aouichat, Aicha Boutorh

Analysis of Sequential Events for the Recognition of Human Behavior Patterns in Home Automation Systems .................. 511
Adolfo Lozano-Tello, Vicente Botón-Fernández

Reflective Relational Learning for Ontology Alignment ............... 519
Andrzej Szwabe, Pawel Misiorek, Przemyslaw Walkowiak

On the Evolutionary Search for Data Reduction Method ............. 527
Hanna Lacka, Maciej Grzenda
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handwritten Character Recognition with Artificial Neural Networks</td>
<td>535</td>
</tr>
<tr>
<td>Stephane Kouamo, Claude Tangha</td>
<td></td>
</tr>
<tr>
<td>Image Processing, Tracking, Robotic, Control and Industrial Systems</td>
<td></td>
</tr>
<tr>
<td>Design of a CMAC-Based PID Controller Using Operating Data</td>
<td>545</td>
</tr>
<tr>
<td>Shin Wakitani, Yoshihiro Ohnishi, Toru Yamamoto</td>
<td></td>
</tr>
<tr>
<td>Autonomous Control of Octopus-Like Manipulator Using Reinforcement Learning</td>
<td>553</td>
</tr>
<tr>
<td>So Kuroe, Kazuyuki Ito</td>
<td></td>
</tr>
<tr>
<td>Relationship between Quality of Control and Quality of Service in Mobile Robot Navigation</td>
<td>557</td>
</tr>
<tr>
<td>José-Luis Pozo-Luján, Juan-Luis Posadas-Yagüe, José-Enrique Simó-Ten</td>
<td></td>
</tr>
<tr>
<td>Fusing Facial Features for Face Recognition</td>
<td>565</td>
</tr>
<tr>
<td>Jamal Ahmad Dargham, Ali Chekima, Ervin Gubin Moung</td>
<td></td>
</tr>
<tr>
<td>Hybrid Component-Based Face Recognition System</td>
<td>573</td>
</tr>
<tr>
<td>Jamal Ahmad Dargham, Ali Chekima, Munira Hamdan</td>
<td></td>
</tr>
<tr>
<td>A Mixed Pixels Estimation Method for Landsat-7/ETM+ Images</td>
<td>581</td>
</tr>
<tr>
<td>Seiji Ito, Yoshinari Oguro</td>
<td></td>
</tr>
<tr>
<td>Phoneme Recognition Using Support Vector Machine and Different Features Representations</td>
<td>587</td>
</tr>
<tr>
<td>Rimah Amami, Dorra Ben Ayed, Noureddine Ellouze</td>
<td></td>
</tr>
<tr>
<td>Mobile Systems, Locating Systems</td>
<td></td>
</tr>
<tr>
<td>Localization Systems for Older People in Rural Areas: A Global Vision</td>
<td>597</td>
</tr>
<tr>
<td>L. Martín, I. Plaza, M. Rubio, R. Igual</td>
<td></td>
</tr>
<tr>
<td>A Maritime Piracy Scenario for the n-Core Polaris Real-Time Locating System</td>
<td>601</td>
</tr>
<tr>
<td>Óscar García, Ricardo S. Alonso, Dante I. Tapia, Fabio Guevara, Fernando de la Prieta, Raul A. Bravo</td>
<td></td>
</tr>
<tr>
<td>A Serious Game for Android Devices to Help Educate Individuals with Autism on Basic First Aid</td>
<td>609</td>
</tr>
<tr>
<td>Zelai Sánchez de Urturi, Amaia Méndez Zorrilla, Begoña García Zapirain</td>
<td></td>
</tr>
<tr>
<td>User-Independent Human Activity Recognition Using a Mobile Phone: Offline Recognition vs. Real-Time on Device Recognition</td>
<td>617</td>
</tr>
<tr>
<td>Pekka Siirtola, Juha Röning</td>
<td></td>
</tr>
</tbody>
</table>
Implementing a Spatial Agenda in Android Devices .......................... 629
C.N. Ojeda-Guerra

M-Learning for Elderlies: A Case Study ................................. 637
Fernando de la Prieta, Antonia Macarro, Amparo Jiménez,
Amparo Casado, Kasper Hallenborg, Juan F. De Paz, Sara Rodríguez,
Javier Bajo

Mobile Device to Measure Ubiquitous Danger in a Great City Based on Cultural Algorithms ........................................ 647
Alberto Ochoa, Erick Trejo, Daniel Azpeitia, Néstor Esquinca,
Rubén Jaramillo, Jóns Sánchez, Saúl González, Arturo Hernández

New Algorithms

Simulated Annealing for Constructing Mixed Covering Arrays .......... 657
Himer Avila-George, Jose Torres-Jimenez, Vicente Hernández,
Loreto Gonzalez-Hernandez

Improve the Adaptive Capability of TMA-OR .......................... 665
Jungan Chen, Qiaowen Zhang, Zhaoxi Fang

A New Hybrid Firefly Algorithm for Complex and Nonlinear Problem ............................................................. 673
Afnizanfaizal Abdullah, Safaai Deris, Mohd Saberi Mohamad,
Siti Zaiton Mohd Hashim

A General Framework for Naming Qualitative Models Based on Intervals ................................................................. 681
Ester Martínez-Martín, M. Teresa Escrig, Angel P. del Pobil

Approach of Genetic Algorithms with Grouping into Species Optimized with Predator-Prey Method for Solving Multimodal Problems .................................................................................. 689
Pablo Seoane, Marcos Gestal, Julián Dorado, J. Ramón Rabuñal,
Daniel Rivero

BTW: A New Distance Metric for Classification .......................... 701
Julio Revilla Ocejo, Evaristo Kahoraho Bukubiye

Using an Improved Differential Evolution Algorithm for Parameter Estimation to Simulate Glycolysis Pathway .................... 709
Chuii Khim Chong, Mohd Saberi Mohamad, Safaai Deris, Shahir Shamsir,
Afnizanfaizal Abdullah, Yee Wen Choon, Lian En Chai, Sigeru Omatu

Structural Graph Extraction from Images .................................. 717
Antonio-Javier Gallego-Sánchez, Jorge Calera-Rubio, Damián López

Antonio-Javier Gallego-Sánchez, Jorge Calera-Rubio, Damián López
Mutagenesis as a Diversity Enhancer and Preserver in Evolution Strategies .................................................... 725
José L. Guerrero, Alfonso Gómez-Jordana, Antonio Berlanga, José M. Molina

Nonlinear Approaches to Automatic Elicitation of Distributed Oscillatory Clusters in Adaptive Self-organized System ............ 733
Elena N. Benderskaya, Sofya V. Zhukova

Classifier Ensemble Framework Based on Clustering ................ 743
Hamid Parvin, Sajad Parvin, Zahra Rezaei, Moslem Mohamadi

Resource Allocation Strategies to Maximize Network Survivability Considering of Average DOD .................................... 751
Frank Yeong-Sung Lin, Pei-Yu Chen, Quen-Ting Chen

Comparative Analysis of Two Distribution Building Optimization Algorithms .................................................... 759
Pavel Galushin, Olga Semenkina, Andrey Shabalov

Development of a Computational Recommender Algorithm for Digital Resources for Education Using Case-Based Reasoning and Collaborative Filtering ........................................ 767
Guadalupe Gutiérrez, Lourdes Margain, Alberto Ochoa, Jesús Rojas

Author Index ..................................................... 775