

# **Computer Science & Technology Series**

XVII Argentine Congress of Computer Science  
Selected Papers

Armando De Giusti / Javier Diaz (Eds)

## Table of Contents

### **XII Intelligent Agents and Systems Workshop**

Using Possibilistic Defeasible Logic Programming for Reasoning with Inconsistent Ontologies

*Sergio A. Gómez, Carlos I. Chesñevar, Guillermo R. Simari*

An Argumentation Framework with Backing and Undercutting

*Andrea Cohen, Alejandro J. García, Guillermo R. Simari*

Face Recognition using SIFT descriptors and Binary PSO with velocity control

*Juan A. Maulini, Laura Lanzarini*

### **XI Distributed and Parallel Processing Workshop**

Performance Analysis of a Symmetric Cryptographic Algorithm on Multicore Architectures

*Adrián Pousa, Victoria Sanz, Armando E. De Giusti*

Efficiency Evaluation of the Input/Output System on Computer Clusters

*Sandra Mendez, Dolores I. Rexachs del Rosario, Emilio Luque Fadón*

Implementing Sub Steps in a Parallel Automata Cellular Model

*Pablo C. Tissera, Marcela Printista, Emilio Luque Fadón*

### **X Information Technology Applied to Education Workshop**

A Conversational Agent for the Improvement of Problem-Solving Skills

*Eliane Vigneron, Liane Tarouco, Eliseo Reategui, Michelle Leonhardt, Alan Gularte, Andrea Capra*

ECALEAD – Quality Assessment in Distance Education. Analysis of the proposed model

*Gladys Gorga, Cecilia Sanz, Maria C. Madoz*

Interactive multi-sensory environment to control stereotypy behaviours

*Cristina Manresa-Yee, Ramón Mas, Gabriel Moyá, María J. Abásolo, Javier Giacomantone*

## **IX Graphic Computation, Imagery and Visualization Workshop**

Unrestricted multivariate medians for adaptive filtering of color images

*Ezequiel López-Rubio, María N. Florentín-Núñez*

Error-Bounded Terrain Rendering Approach based on Geometry Clipmaps

*Lucas E. Guaycochea, Horacio A. Abbate*

## **VIII Software Engineering Workshop**

Exploring Software Engineering Techniques for Developing Robotic Systems

*Claudia F. Pons, Roxana S. Giandini, Gabriela Arévalo, Dimitris Karagiannis*

ReqGIS Classifier: A Tool for Geographic Requirements Normalization

*Viviana E. Saldaño*

Assessment Scheme-based Service Selection for SOC-based Applications

*Martín Garriga, Andrés P. Flores, Alejandra Cechich, Alejandro Zunino*

Adaptation of ISO/IEC 15504 Standard to SMBs Needs. Analysis of Required Roles to Meet Work Product Requirements

*Ariel Pasini, José R. Zubizarreta Aizpuru, Patricia Pesado*

## **VIII Database and Data Mining Workshop**

Combining Methods for Searches in Nested Metric Spaces

*Hugo Guercek, Nora Reyes, Claudia Deco, Cristina Bender, Mariano Salvetti*

Center Selection Techniques Based on Distance Histograms  
*Ariel Lucero, Carina M. Ruano, Norma E. Herrera*

## **VI Architecture, Nets and Operating Systems Workshop**

Modifying the Behaviour of Minix System Calls through the Redirection of Messages  
*Pablo Pessolani*

On the Road to a Global Wireless Sensor Network  
*Eduardo O. Sosa, Stefan Fischer, F. Javier Díaz*

## **III Innovation in Software Systems Workshop**

Cohesion among Ontologies: a Technique for Measuring Semantic Integration  
*Mercedes Vitturini, Pablo R. Fillottrani*

An Audio File Tagging Mobile Game, mTagATune  
*F. Javier Díaz, Claudia Queiruga, Alejandro Ferraresso, José I. Larghi*

## **II Computer Science Theoretical Aspects Workshop**

DeLP marking procedure for dialectical trees is PSPACE-complete  
*Laura A. Cecchi, Guillermo R. Simari*

## **II Signal Processing and Real-Time Systems Workshop**

Abstract Data Type for Real-Time Database Systems  
*Carlos Buckle, José M. Urriza, Damián P. Barry, Francisco Paez*

## **I ETHICOMP Latinoamérica**

Advantages and Trade-Offs of Introducing Ethical Issues in Computing through a Dedicated Course or through Modules in Relevant Content Courses in the Curriculum

*William Fleischman, Daniel T. Joyce*

Some Ethical Reflections on Relations between Human Beings and Social Robots

*Anne Gerdes*