

Monday 21	Salón de Actos	Room 1	Room 2	Room 3	Room 4	Room 5
9:00 – 9:45	Registration					
9:45 – 10:00	Opening Session by the General Chairs					
10:00 – 11:00	John Oommen <i>Text Classification Using Novel “Anti-Bayesian” Techniques</i>					
11:00 – 11:30	Coffee Break					
11:30 – 13:00	Main Track Multi-agent Systems I	Special Session WebSys I	Special Session ANST I	Special Session CSI I	Main Track Sentiment Analysis I	Special Session EL I
13:00 – 14:30	Lunch					
14:30 – 16:00	Main Track Multi-agent Systems II	Special Session WebSys II	Special Session ANST II	Main Track Social Networks & NLP I	Main Track Sentiment Analysis II	Special Session EL II
16:00 – 16:30	Coffee Break					
16:30 – 18:00	Main Track Multi-agent Systems III	Special Session WebSys III	Special Session ANST III	Main Track Social Networks & NLP II	Special Session CIFM	Special Session SIDATA I
20:00 – 21:30	Welcome reception (please, bring your badge). Casa de la Panadería inside Plaza Mayor ¹ (Metro: Vodafone Sol, lines 1, 2 and 3). Food and drinks will be served.					

¹ The venue can be easily reached by metro. It is just four stops from the Argüelles station (take line 3), close to all the recommended hotels, and then a short walk to Plaza Mayor.

Tuesday 22	Salón de Actos	Room 1	Room 2	Room 3	Room 4	Room 5
9:00 – 10:00	Registration					
10:00 – 11:00	Francisco Herrera <i>Big Data: Technologies and algorithms to deal with challenges</i>					
11:00 – 11:30	Coffee Break					
11:30 – 13:00	Main Track Computational Intelligence & Games I	Special Session ItiB I	Special Session ANST IV	Special Session CSDMO I	Special Session BigDMS I	Special Session SIDATA II
13:00 – 14:30	Lunch					
14:30 – 16:00	Main Track Computational Intelligence & Games II	Special Session ItiB II	Special Session ANST V	Main Track Ontologies and Information Extraction I	Special Session BigDMS II	Special Session CSI II
16:00 – 16:30	Coffee Break					
16:30 – 18:00	Main Track Computational Intelligence & Games III	Main Track Neural Networks, SMT & MIS I	Main Track Formal Models & Simulation I	Main Track Ontologies and Information Extraction II	Special Session CoEdu I	Special Session CSI III
19:15 – 21:00	Walking tour in the historic center of Madrid (starting point to be announced). The tour will end before the beginning of the conference dinner.					
21:00	Conference Dinner (please, bring your badge). Restaurante Colonial Norte ² (Metro: Principe Pío, lines 6 and 10).					

² The restaurant can be easily reached by metro. It is just one stop from the Argüelles station (take line 6), close to all the recommended hotels.

Wednesday 23	Salón de Actos	Room 1	Room 2	Room 3	Room 4	Room 5
10:00 – 11:00	Guy Theraulaz <i>Collective information processing in fish schools: from data to computational models</i>					
11:00 – 11:30	Coffee Break					
11:30 – 13:00	Main Track Computational Intelligence & Games IV	Main Track Neural Networks, SMT & MIS II	Main Track Formal Models & Simulation II	Main Track Ontologies and Information Extraction III	Special Session CoEdu II	Special Session CSDMO II
13:00 – 14:30	Lunch					
14:30 – 15:30	Jorge Ufano <i>Trading and Poker: Using computers to take intelligent decisions</i>					
15:30 – 15:40	Closing – ICCCI 2015					
15:45 – 20:00	Excursion: Monasterio de San Lorenzo de El Escorial³					

³ The bus will depart from the Conference venue and will return to the Argüelles metro station.



Main Track

Computational Intelligence & Games I Tuesday, Salón de Actos, 11:30 – 13:00

Chair Kang-Hyun Jo

- Enhancing History-based Move Ordering in Game Playing Using Adaptive Data Structures
Spencer Polk and John Oommen
- Text-Based Semantic Video Annotation for Interactive Cooking Videos
Kyeong-Jin Oh, Myung-Duk Hong, Ui-Nyoung Yoon and Geun-Sik Jo
- Objects Detection and Tracking on the Level Crossing
Zdenek Silar and Martin Dobrovlny

Computational Intelligence & Games II Tuesday, Salón de Actos, 14:30 – 16:00

Chair Piotr Porwik

- Spatial-based Joint Component Analysis Using Hybrid Boosting Machine for Detecting Human Carrying Baggage
Wahyono and Kanghyun Jo
- Multi-population cooperative bat algorithm for association rule mining
Kamel Eddine Heraguemi, Nadjet Kamel and Habiba Drias
- Supervised Greedy Layer-Wise Training for Deep Convolutional Networks with Small Datasets
Raúl Ramos-Pollán, Diego Alexander Rueda Plata and Fabio-Augusto González-Osorio

Computational Intelligence & Games III Tuesday, Salón de Actos, 16:30 – 18:00

Chair Hoai An Le Thi

- An Equilibrium in a Sequence of Decisions with Veto of First Degree
David Ramsey and Jacek Mercik
- DC Programming and DCA for Dictionary Learning
Xuan Thanh Vo, Hoai An Le Thi, Thi Bich Thuy Nguyen and Tao Pham Dinh
- Evolutionary Algorithm for Large Margin nearest Neighbour Regression
Florin Leon and Silvia Curteanu

Computational Intelligence & Games IV Wednesday, Salón de Actos, 11:30 – 13:00

Chair David Camacho

- Artificial immune system: An effective way to reduce model overfitting
Waseem Ahmad and Ajit Narayanan
- Malfunction Immune Wi-Fi Localisation Method
Marcin Luckner and Rafał Górak
- User Profile Analysis for UAV operators in a Simulation Environment
Víctor Rodríguez-Fernández, Héctor Menéndez and David Camacho



Main Track

Formal Models & Simulation I

Tuesday , Aula 2, 16:30 – 17:30

Chair Kazimierz Choros

- Formal and computational model for A. Smith's Invisible Hand paradigm
Tadeusz Szuba, Stanisław Szydło and Paweł Skrzynski
- Comparison of Edge Operators for Detection of Vanishing Points
Dongwook Seo, Danilo Caceres Hernandez and Kang-Hyun Jo

Formal Models & Simulation II

Wednesday, Aula 2, 11:30 – 12:30

Chair Kazimierz Choros

- A Tolerance-Based Semantics of Temporal Relations: First Steps
Aymen Gammoudi, Allel Hadjali and Boutheina Ben Yaghlane
- Integer Programming Based Stable and Efficiency Algorithm for Two-Sided Matching with Indifferences
Naoki Ohta

Multi agent Systems I

Monday, Salón de Actos, 11:30 – 13:00

Chair Irek Czarnowski

- ADELFE 3.0 Design, building Adaptive Multi Agent Systems based on Simulation. A Case Study
Wafa Mefteh, Frédéric Migeon, Marie-Pierre Gleizes and Faiez Gargouri
- Multi Agent model based on Chemical Reaction Optimization for Flexible Job Shop Problem
Bilel Marzouki and Olfa Belkahla Driss
- MATS–JSTL: a Multi-Agent model based on Tabu Search for Job Shop problem with Time Lags
Madiha Harrabi and Olfa Belkahla

Multi agent Systems II

Monday, Salón de Actos, 14:30 – 16:00

Chair Irek Czarnowski

- A model of a multiagent early warning system for crisis situations in economy
Marcin Hernes, Marcin Maleszka, Ngoc Thanh Nguyen and Andrzej Bytniewski
- Combining Machine Learning and Multi-Agent Approach for Controlling Traffic at Intersections
Mateusz Krzysztoń and Bartłomiej Śnieżyński
- A scalable distributed architecture for web-based software agents
Dejan Mitrovic, Mirjana Ivanovic, Milan Vidakovic and Zoran Budimac

Multi agent Systems III

Salón de Actos, 16:30 – 18:00

Chair Jacek Mercik

- BPMN Processes to Organization Centered Multi-Agent Systems Mapping to Help Assess Crisis Situations
Le Nguyen Tuan Thanh, Hanachi Chihab, Stinckwich Serge and Ho Tuong Vinh
- Agent Based Quality Management in Lean Manufacturing
Rafał Cupek, Huseyin Erdogan, Lukasz Huczala, Udo Wozar and Adam Ziebinski
- Towards a framework for hierarchical multi-agent plans diagnosis and recovery
Said Brahimi, Ramdane Maamri and Zaidi Sahnoun



Main Track

Neural Networks, SMT & MIS I

Tuesday, Aula 1, 16:30 – 17:30

Chair Lazaros Iliadis

- Design Analysis of Intelligent Dynamically Phased Array Smart Antenna using Dipole Leg and Radial Basis Function Neural Network
Abhishek Rawat, Vidhi Rawat and R. N. Yadav
- On the Accuracy of Copula-based Bayesian Classifiers: An Experimental Comparison with Neural Networks
Lukáš Slechan and Jan Górecki

Neural Networks, SMT & MIS II

Wednesday, Aula 1, 11:30 – 12:30

Chair Marcin Hernes

- Automating Event Recognition for Statistical Machine Translation systems
Emna Hkiri, Mallat Souheyl, Mohsen Maraoui and Mounir Zrigui
- Deriving Consensus for Term Frequency Matrix in a Cognitive Integrated Management Information System
Marcin Hernes

Ontologies and Information Extraction I

Tuesday, Aula 3, 14:30 – 16:00

Chair Dosam Hwang

- A Method for Profile Clustering Using Ontology Alignment in Personalized Document Retrieval Systems
Bernadetta Maleszka
- Knowledge-based Approach to Question Answering System Selection
Agnieszka Konys
- Text Relevance Analysis Method over Large-scale High-dimensional Text Data Processing
Ling Wang, Wei Ding, Tie Hua Zhou and Keun Ho Ryu

Ontologies and Information Extraction II

Tuesday, Aula 3, 16:30 – 18:00

Chair Dosam Hwang

- Linguistic summaries of graph datasets using ontologies: an application to Semantic Web
Łukasz Strobin and Adam Niewiadomski
- Movie Summarization using Characters Network Analysis
Quang Dieu Tran, Dosam Hwang and Jason J. Jung
- A Mobile Context-Aware Proactive Recommendation Approach
Imen Akermi and Rim Faiz

Ontologies and Information Extraction III

Wednesday, Aula 3, 11:30 – 12:30

Chair Michal Wozniak

- Ontology-based Information Extraction from Spanish Forum
Willy Peña and Andrés Melgar
- User Personalisation for the Web Information Retrieval using Lexico-Semantic Relations
Agnieszka Indyka-Piasecka, Piotr Jacewicz and Elżbieta Kukla



Main Track

Sentiment Analysis I

Monday, Aula 4, 11:30 – 13:00

Chair Ali Selamat

- How impressionable are you? - Grey Knowledge, Groups and Strategies in OSN
Camelia Delcea, Ioana Bradea, Ramona Paun and Emil Scarlet
- Semi-Supervised Multi-View Sentiment Analysis
Gergana Lazarova and Ivan Koychev
- Modelling and Simulating Collaborative Scenarios for Designing an Assistant Ambient System that Supports Daily Activities
Triki Sameh, Hanachi Chihab, Gleizes Marie-Pierre, Glize Pierre and Rouyer Alice

Sentiment Analysis II

Monday, Aula 4, 14:30 – 15:30

Chair Ali Selamat

- Regression Methods in the Authority Identification within Web Discussions
Kristína Machová and Jaroslav Štefaník
- Sem-SPARQL Editor: An editor for the semantic interrogation of Web pages
Sahar Maâlej Dammak, Anis Jedidi and Rafik Bouaziz

Social Networks & NLP I

Monday, Aula 3, 14:30 – 16:00

Chair Jacek Mercik

- Supervised learning to measure the semantic similarity between Arabic sentences
Wafa Wali, Bilel Gargouri and Abdelmajid Ben Hamadou
- Mining Interesting Topics in Twitter Communities
Eleni Vathi, Georgios Siolas and Andreas Stafylopatis
- Community Division of Bipartite Network Based on Information Transfer Probability
Chunlong Fan, Hengchao Wu, Chi Zhang and Chang Liu

Social Networks & NLP II

Monday, Aula 3, 16:30 – 17:30

Chair David Camacho

- User-Tweet Interaction Model and Social Users Interactions for Tweet Contextualization
Rami Belkaroui, Rim Faiz and Pascale Kuntz
- A survey of Twitter Rumor Spreading Simulations
Emilio Serrano



Special Sessions

ANST 2015 Advanced Networking and Security Technologies

ANST I Monday, Aula 2, 11:30 – 13:00 *Chair Peter Brida and Josef Horalek*

- SAME: An Intelligent Anti-Malware Extension for Android ART Virtual Machine
Kostantinos Demertzis and Lazaros Iliadis
- Endpoint Firewall for Local Security Hardening in Academic Research Environment
Ladislav Balik, Ondrej Hornig, Josef Horalek and Vladimir Sobeslav
- Fuzzy Granular Classifier Approach for Spam Detection
Ali Selamat

ANST II Monday, Aula 2, 14:30 – 16:00 *Chair Peter Brida and Josef Horalek*

- An Implementation of Rough Set Theory in the Multiple Criteria Decision Analysis Problems: A Preliminary Study
Ali Selamat
- Network Visualization Survey
Ales Komarek, Vladimir Sobeslav and Jakub Pavlik
- A Proposal of a Big Web Data Application and Archive for the Distributed Data Processing with Apache Hadoop
Martin Lnenička, Jan Hovad and Jitka Komarkova

ANST III Monday, Aula 2, 16:30 – 17:30 *Chair Peter Brida and Josef Horalek*

- Centralized Data Flow Management System
Agáta Bodnárová and Michal Kökörčený
- Decision Support Smartphone Application Based on Interval AHP Method
Richard Cimler, Karel Mls and Martin Gavalec

ANST IV Tuesday, Aula 2, 11:30 – 13:00 *Chair Peter Brida and Josef Horalek*

- Impact of Weather Conditions on Fingerprinting Localization based on IEEE 802.11a
Peter Brida and Juraj Machaj
- Enterprise ICT Transformation to Agile Environment
Ales Komarek, Vladimir Sobeslav and Jakub Pavlik
- Analysis of the use of cloud services and their effects on the efficient functioning of a Company
Josef Horalek, Simeon Karamazov, Filip Holik and Tomas Svoboda

ANST V Tuesday, Aula 2, 14:30 – 16:00 *Chair Peter Brida and Josef Horalek*

- Proposal to centralize operational data outputs of airport facilities
Josef Horalek, Sona Neradova, Simeon Karamazov, Filip Holik, Ondrej Marik and Stanislav Zitta
- IED remote data acquisition and processing in power distribution
Ladislav Balik, Ondrej Hornig, Josef Horalek and Vladimir Sobeslav
- Social Networks and their Potential for Education
Petra Poulova and Blanka Klimova



Special Sessions

BigDMS 2015 Big Data Mining and Searching

BigDMS I Tuesday, Aula 4, 11:30 – 12:30 *Chair Rim Faiz*

- What if mixing technologies for Big Data mining and queries optimization
Dhouha Jemal and Rim Faiz
- Parallel K-prototypes for Clustering Big Data
Mohamed Aymen Ben Hajkacem, Chiheb-Eddine Ben N'Cir and Nadia Essoussi

BigDMS II Tuesday, Aula 4, 14:30 – 15:30 *Chair Aymen Elkhilfi*

- Big Data: Concepts, challenges and Applications
Imen Chebbi, Wadii Boulila and Imed Riadh Farah
- Improving information-carrying data capacity in text mining
Marcin Gibert

CIFM 2015 Computational Intelligence in Financial Markets

CIFM Monday, Aula 4, 16:30 – 17:30 *Chair Fulufhelo Nelwamondo*

- Measuring the impact of imputation in financial fraud
Stephen Moepya, Sharat Akhoury, Fulufhelo Nelwamondo and Bhekisipho Twala
- An Improved Grey Forecasting Models Case in China's Coal Consumption Demand
Chia-Nan Wang and Van-Thanh Phan

ColEdu 2015 Collective Computational Intelligence in Educational Context

ColEdu I Tuesday, Aula 4, 16:30 – 17:30 *Chair Marta Zorrilla*

- Meta-learning based framework for helping non-expert miners to choose a suitable classification algorithm: an application for the educational field
Marta Zorrilla and Diego García-Saiz
- Fuzzy Logic Based Modeling for Building Contextual Student Group Recommendations
Krzysztof Myszkowski and Danuta Zakrzewska

ColEdu II Wednesday, Aula 4, 11:30 – 13:00 *Chair Danuta Zakrzewska*

- Mining Social Behavior in the Classroom
Roberto Araya, Ragnar Behncke, Amitai Linker and Johan van der Molen
- Using Concept Maps in Education of Immunological Computation and Computational Immunology
Martina Husáková
- Framework of Design Requirements for E-learning Applied on Blackboard Learning System
Aneta Bartuskova, Ondrej Krejcar and Ivan Soukal



Special Sessions

CSDMO 2015 Cooperative Strategies for Decision Making and Optimization

CSDMO I Tuesday, Aula 3, 11:30 – 13:00 *Chair Irek Czarnowski*

- Performance Evaluation of Multi-UAV Cooperative Mission Planning Models
Cristian Ramírez-Atencia, Gema Bello Orgaz, María D. R-Moreno and David Camacho
- A Hybrid Distance-Based and Naive Bayes Online Classifier
Joanna Jedrzejowicz and Piotr Jedrzejowicz
- Cluster-dependent Feature Selection for the RBF Networks
Ireneusz Czarnowski and Piotr Jedrzejowicz

CSDMO II Wednesday, Aula 5, 11:30 – 13:00 *Chair Piotr Jedrzejowicz*

- InterCriteria Analysis of Parameters Relations in Fermentation Processes Models
Olympia Roeva, Peter Vassilev, Maria Angelova and Tania Pencheva
- Optimization procedure of the multi-parameter assessment and bidding of decision-making variants in the computerized decision support system
Jarosław Becker and Ryszard Budziński
- Supporting Cooperative Decisions with a Multicriteria Generalization of the Nash Solution
Lech Kruś

CSI 2015 Computational Swarm Intelligence

CSI I Monday, Aula 3, 11:30 – 13:00 *Chair Urszula Boryczka*

- A new algorithm to categorize e-mail messages to folders with Social Networks Analysis
Urszula Boryczka, Barbara Probiez and Jan Kozak
- Population-Based Ant Colony Optimization for Sequential Ordering Problem
Rafał Skinderowicz
- Designing a Universal Suboptimal Tree Integration Algorithm
Marcin Maleszka

CSI II Tuesday, Aula 5, 14:30 – 16:00 *Chair Urszula Boryczka*

- Heterogeneous DPSO algorithm for DTSP
Urszula Boryczka and Łukasz Strąk
- Decomposition based Multiobjective Hyper Heuristic with Differential Evolution
Richard Goncalves, Josiel Kuk, Carolina Almeida and Sandra Venske
- Multi-start Differential Evolution Approach in the Process of Finding Equilibrium Points in the Covariant Games
Przemysław Juszczak

CSI III Tuesday, Aula 5, 16:30 – 17:30 *Chair Urszula Boryczka*

- Genetic Algorithm in stream cipher cryptanalysis
Iwona Polak and Mariusz Boryczka
- Cryptanalysis of SDES using modified version of Binary Particle Swarm Optimization
Kamil Dworak and Urszula Boryczka



Special Sessions

EL 2015 Ensemble Learning

EL I Monday, Aula 5, 11:30 – 13:00 *Chair Piotr Porwik*

- Investigation of the impact of missing value imputation methods on the k-NN classification accuracy
Tomasz Orczyk and Piotr Porwik
- Blurred labeling segmentation algorithm for hyperspectral images
Pawel Ksieniewicz, Manuel Grana and Michal Wozniak
- Enhancing Intelligent Property Valuation Models by Merging Similar Cadastral Regions of a Municipality
Tadeusz Lasota, Edward Sawilow, Zbigniew Telec, Bogdan Trawiński, Marta Roman, Paulina Matczuk and Patryk Popowicz

EL II Monday, Aula 5, 14:30 – 16:00 *Chair Michał Wozniak*

- Keystroke Data Classification for Computer User Profiling and Verification
Tomasz Wesolowski and Piotr Porwik
- The new multilayer ensemble classifier for verifying users based on keystroke dynamics
Rafal Doroz, Piotr Porwik and Hossein Safaverdi
- Application of Evolving Fuzzy Systems to Construct Real Estate Prediction Models
Martin Grzeslowski, Zbigniew Telec, Bogdan Trawiński, Tadeusz Lasota and Krzysztof Trawiński

ItiB 2015 IT in Biomedicine

ItiB I Tuesday, Aula 1, 11:30 – 13:00 *Chair Ondrej Krejcar*

- Development of Information and Management System for Laboratory based on OpenSource Licensed Software
Pavel Blažek, Daniel Jun, Ondrej Krejcar and Kamil Kuca
- Determining of Blood Artefacts in Endoscopic Images using a Software Analysis
Ondrej Krejcar
- Combating Infectious Diseases with Computational Immunology
Martina Husáková

ItiB II Tuesday, Aula 1, 14:30 – 15:30 *Chair Ondrej Krejcar*

- Mobile Cloud Computing In Healthcare System
Hanen Jemal, Zied Kechaou, Mounir Ben Ayed and Adel M. Alimi
- Parallel Flexible Molecular Docking in Computational Chemistry on High Performance Computing Clusters
Rafael Dolezal, Teodorico Ramalho, Tanos Franca and Kamil Kuca



Special Sessions

SIDATA 2015 Science Intelligence and Data Analytics

SIDATA I Monday, Aula 5, 16:30 – 17:30 *Chair Thanh- Binh Nguyen*

- Expressing a temporal entity-relationship model as a traditional entity-relationship model
Quang Hoang and Thuong Pham
- A Probabilistic Ontology for the Prediction of Author's Interests
Emna Hlel, Salma Jamoussi and Abdelmajid Ben Hamadou

SIDATA II Tuesday, Aula 5, 11:30 – 13:00 *Chair Thanh- Binh Nguyen*

- A Framework of Faceted Search for Unstructured Documents Using Wiki Disambiguation
Binh Duc Dang, Hong Son Nguyen, Thanh Binh Nguyen and Trong Hai Duong
- Current Derivative Estimation of Non-Stationary Processes based on Metrical Information
Elena Kochegurova and Ekaterina S. Gorokhova
- An intelligent possibilistic approach to reduce the effect of the imperfection propagation on land cover change prediction
Ahlem Ferchichi, Wadii Boulila and Imed Riadh Farah

WebSys 2015 Collective Intelligence in Web Systems Web Systems Analysis

WebSys I Monday, Aula 1, 11:30 – 13:00 *Chair Jarosław Jankowski*

- Optimization of 3D Rendering by Simplification of Complicated Scene for Mobile Clients of Web Systems
Ondrej Krejcar
- Automatic Categorization of Shots in News Videos Based on the Temporal Relations
Kazimierz Choroś
- Saliency-guided Video Deinterlacing
Maria Trocan and Francois-Xavier Coudoux

WebSys II Monday, Aula 1, 14:30 – 16:00 *Chair Maria Trocan*

- Towards a System For Cloud Services Discovery and Composition based on Ontology
Rawand Guerfel, Zohra Sba'i and Rahma Ben Aed
- Modeling the Impact of Visual Components on Verbal Communication in Online Advertising
Jarosław Jankowski, Jarosław Wątrobski and Paweł Ziemba
- Countering Social Engineering through Social Media: An Enterprise Security Perspective
Heidi Wilcox and Maumita Bhattacharya

WebSys III Monday, Aula 1, 16:30 – 17:30 *Chair Kazimierz Choros*

- Loading Speed of Modern Websites and Reliability of Online Speed Test Services
Aneta Bartuskova and Ondrej Krejcar
- Knowledge Management in Website Quality Evaluation Domain
Jarosław Jankowski, Paweł Ziemba, Jarosław Wątrobski and Jarosław Becker