Conference program
<table>
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<tbody>
<tr>
<td>1:30pm - 5pm</td>
<td>Workshop 1: WASPIQ Workshop on ASP technologies for Querying large scale multisource heterogeneous web information</td>
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<td></td>
<td>Workshop 2: CAimAI Computer Animation and Artificial Intelligence Program:</td>
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### Wednesday, June 28th

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<tr>
<th>Time</th>
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<tr>
<td>8:30am - 8:45am</td>
<td><strong>IEA/AIE’17 Welcome</strong></td>
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<tr>
<td>8:45am - 9:45am</td>
<td><strong>Invited talk 1</strong> Creative for Research - an Analogy Model (Jian J. ZHANG, Bournemouth University, UK)<strong>&lt;br&gt;Chairs: Moonis Ali</strong></td>
</tr>
<tr>
<td>9:45am - 10:15am</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>10:15am - 12pm</td>
<td><strong>Parallel sessions 1</strong></td>
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<td></td>
<td><strong>Session 1.A</strong> Constraints, planning and optimization Session Chair: Luca Pulina**</td>
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<tr>
<td>84</td>
<td>34 Seda Polat Erdeniz, Alexander Felfernig, Muesluem Atas, Trang Tran, Michael Jeran and Martin Stettinger Cluster-Specific Heuristics for Constraint Solving</td>
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<tr>
<td>85</td>
<td>117 Fu-Shiung Hsieh, Fu-Min Zhan and Yi-Hong Guo Car Pooling Based On A Meta-heuristic Approach</td>
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<tr>
<td>86</td>
<td>153 Domen Soberl and Ivan Bratko Reactive motion planning with qualitative constraints</td>
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<tr>
<td>87</td>
<td>55 Behrouz Afshar Nadjafi, Mehdi Yazdani and Mahyar Majlesi A Hybrid of Tabu Search and Simulated Annealing Algorithms for Preemptive Project Scheduling Problem (short paper)</td>
</tr>
<tr>
<td>88</td>
<td>102 Imen Chaouch, Olfa Belkahla Driss and Khaled Ghedira Elitist Ant System for the Distributed Job shop Scheduling Problem (short paper)</td>
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<td><strong>Session 1.B</strong> Data mining &amp; Machine learning (1) Session Chair: Paul Darwen**</td>
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<tr>
<td>89</td>
<td>134 Armando Collado, Maria D. R-Moreno, David F. Barrero and Daniel Rodriguez Machine learning approach to detect falls on elderly people using sound</td>
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<tr>
<td>90</td>
<td>74 Asma Trabelsi, Zied Elouedi and Eric Lefevr A novel k-NN approach for data with uncertain attribute values</td>
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<tr>
<td>91</td>
<td>109 Nassima Ben Hariz, Hela Khoufi and Ezzeddine Zagrouba On Combining Imputation Methods for Handling Missing Data</td>
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<tr>
<td>92</td>
<td>29 Wissam Siblini, Reda Alami, Frank Meyer and Pascale Kuntz Supervised Feature Space Reduction for Multi-Label Nearest Neighbors</td>
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<td>93</td>
<td>3 Nanglaik Ma Forecasting airport’ departure passenger movements using data analytics (short paper)</td>
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<td></td>
<td><strong>Session 1.C (Special Track)</strong> Applications of Argumentation Session Chair: Ofer Orieli**</td>
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<tr>
<td>94</td>
<td>8 Kawsar Noor, Anthony Hunter and Astrid Mayer Analysis of Medical Arguments from Patient Experiences Expressed on the Social Web</td>
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<td>95</td>
<td>68 Sylvie Doutre, Faustine Maffre and Peter McBurney A Dynamic Logic Framework for Argumentation: Adding and Removing Arguments</td>
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<tr>
<td>96</td>
<td>72 Teeradaj Racharak, Satoshi Tojo, Nguyen Duy Hung and Prachya Boonkwan Combining Answer Set Programming with Description Logics for Analogical Reasoning under an Agent’s Preferences</td>
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<tr>
<td>97</td>
<td>75 Nikolaos I. Spanoudakis, Elena Constantinou and Antonis C. Kakas Modeling Data Access Legislation with Gorgias</td>
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<tr>
<td>98</td>
<td>92 Adam Wyner and Hannes Strass dARE – Using Argumentation to Explain Conclusions from a Controlled Natural Language Knowledge Base</td>
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<tr>
<td>12pm - 1:30pm</td>
<td><strong>Lunch</strong></td>
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<tr>
<td><strong>Session 2.A</strong></td>
<td>Data mining &amp; Machine Learning (2)</td>
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<tr>
<td><strong>Session Chair:</strong> Ilyes Jenhani</td>
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<tr>
<td>▪ 121 Hugo Lewi Hammer and Anis Yazidi</td>
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<tr>
<td>Incremental Quantiles Estimators for Tracking Multiple Quantiles</td>
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<tr>
<td>▪ 19 Giovanni Rottoli, Hernan Merlino and Ramon Garcia-Martinez</td>
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<tr>
<td>Co-Location Rules Discovery Process Focused on Reference Spatial Features Using Decision Tree Learning (short paper)</td>
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<tr>
<td>▪ 23 Tracey John and Dwaine Clarke</td>
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<tr>
<td>Virtual Career Advisor System with an Artificial Neural Network (short paper)</td>
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<tr>
<td>▪ 57 Ikram Chraibi Kaadoud, Nicolas Rougier and Frederic Alexandre</td>
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<tr>
<td>Implicit knowledge extraction and structuration from electrical diagrams (short paper)</td>
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<tr>
<td>▪ 159 Jerzy Martyna</td>
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<tr>
<td>Fuzzy Reinforcement Learning for Routing in Multi-Hop Cognitive Radio Networks (short paper)</td>
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</tr>
<tr>
<td><strong>Session 2.B</strong></td>
<td>Sensors, signal processing and data fusion</td>
</tr>
<tr>
<td><strong>Session Chair:</strong> Nicholas Nechval</td>
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<tr>
<td>▪ 42 Md Hossain and Khandaker Rahman</td>
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<tr>
<td>An Empirical Study on Verifier Order Selection in Serial Fusion Based Multi-biometric Verification System</td>
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<tr>
<td>▪ 166 Hamido Fujita, Vidya K. Sudareshan, Muhammad Adam, Shu Lih Oh, Jen Hong Tan, Yuki Hagiwara, Kuang Chua Chua, Kok Poo Chua, and U. Rajendra Acharya</td>
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<tr>
<td>Characterization of Cardiovascular Diseases Using Wavelet Packet Decomposition and Nonlinear Measures of Electrocardiogram Signal</td>
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<tr>
<td>▪ 175 Ondrej Krejcar and Orcan Alpar</td>
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</tr>
<tr>
<td>Biometric Keystroke Signal Preprocessing Part I: Signalization, Digitization and Alteration</td>
<td></td>
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<tr>
<td>▪ 7 Shiang-Tai Liu</td>
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<tr>
<td>An application of fuzzy signal-to-noise ratio to the assessment of manufacturing processes (short paper)</td>
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<tr>
<td>▪ 125 Bing Zhou, Hyuk Cho and Adam Mansfield</td>
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<tr>
<td>Robust Sensor Data Fusion through Adaptive Threshold Learning (short paper)</td>
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<tr>
<td>▪ 176 Ondrej Krejcar and Orcan Alpar</td>
<td></td>
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<tr>
<td>Biometric Keystroke Signal Preprocessing Part II: Manipulation (short paper)</td>
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</tr>
<tr>
<td><strong>Session 2.C (Special Track)</strong></td>
<td>Agronomy and Artificial Intelligence</td>
</tr>
<tr>
<td><strong>Session Chair:</strong> Pierre Bisquet</td>
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<tr>
<td>▪ 15 Paul Darwen</td>
<td></td>
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<tr>
<td>Bayesian Model Averaging for Streamflow Prediction of Intermittent Rivers</td>
<td></td>
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<tr>
<td>▪ 111 Sara Maqrot, Simon De Givry, Gauthier Quesnel and Marc Tchamitchian</td>
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<tr>
<td>A Mixed Integer Programming Reformulation of the Mixed Fruit-Vegetable Crop Allocation Problem</td>
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<tr>
<td>▪ 149 Sara Meftah, Antoine Cornuéjols, Juliette Dibie and Mariette Sicard</td>
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<tr>
<td>Data collection and analysis of usages from connected objects: some lessons</td>
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<tr>
<td>▪ 160 Jaen Alberto Arroyo, Cecilia Gomez-Castaneda, Elias Ruiz, Enrique Munoz de Cote, Francisco Gavi and Luis Enrique Sucar</td>
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<tr>
<td>Assessing Nitrogen Nutrition in Corn Crops with Airborne Multispectral Sensors</td>
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<tr>
<td>▪ 94 Rallou Thomopoulos and Dominique Paturel</td>
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</tr>
<tr>
<td>Multidimensional analysis through argumentation? Contributions from a short food supply chain experience (short paper)</td>
<td></td>
</tr>
<tr>
<td>▪ 101 Rallou Thomopoulos, Bernard Moulin and Laurent Bedoussac Combined Argumentation and Simulation to Support Decision. (short paper)</td>
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**3pm - 3:30pm**

****** Coffee break ******
### Wednesday, June 28th

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<tr>
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<th>Parallel sessions 3</th>
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<tr>
<td>Session 3.A</td>
<td>Session 3.B</td>
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<tr>
<td><strong>Recommender systems</strong></td>
<td><strong>Decision support systems</strong></td>
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<tr>
<td>Session Chair: Sylvie Doutre</td>
<td>Session Chair: Pradorn Sureephong</td>
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<tr>
<td>▪ 80 Raouia Abdelkhalek, Imen Boukhris and Zied Elouedi: A New User-Based Collaborative Filtering Under the Belief Function Theory</td>
<td>▪ 77 Amira Dhoub, Abdelwaheeb Trabelsi, Christophe Kolski and Mahmoud Neji: A Multi-Criteria Decision Support Framework for Interactive Adaptive Systems Evaluation</td>
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| 6pm -&gt; 8pm | Arras historical visit (Belfry and subterranean galleries of the Boves) |

| 8pm -&gt; 9pm | Welcome ceremony |
### Thursday, June 29th

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:45am - 9:45am</td>
<td>Invited talk 2: <strong>Rational Enterprise Architecture</strong> (Leendert van der Torre, University of Luxembourg) Chair: Gabriele Kern-Isberner</td>
</tr>
<tr>
<td>9:45am - 10:15am</td>
<td>Coffee break - Posters</td>
</tr>
<tr>
<td>10:15am - 12pm</td>
<td><strong>Parallel sessions 4</strong></td>
</tr>
<tr>
<td>12pm - 1:30pm</td>
<td>Lunch</td>
</tr>
</tbody>
</table>

**Session 4.A: Knowledge representation and reasoning**

*Chairs: G. Kern-Isberner and C. Eichhorn*

- **35** Ofer Arieli, Annemarie Borg and Christian Straßer: *Argumentative Approaches to Reasoning with Consistent Subsets of Premises*
- **114** Kennedy Kambona, Thierry Renaux and Wolfgang De Meuter: *Efficient Matching in Heterogeneous Rule Engines*
- **118** Gloria Bordogna and Simone Sterlacchini: *Volunteered Geographic Information management supported by Fuzzy Ontologies and level-based approximate reasoning*
- **156** Christoph Beierle and Steven Kutsch: *Regular and Sufficient Bounds of Finite Domain Constraints for Skeptical C-Inference*
- **132** Laura Pandolfo and Luca Pulina: *ADNOTO: A Self-Adaptive System for Automatic Ontology-Based Annotation of Unstructured Documents* (short paper)
- **145** Christoph Beierle, Christian Eichhorn and Gabriele Kern-Isberner: *On Transformations and Normal Forms of Conditional Knowledge Bases* (short paper)

**Session 4.B: Navigation, control and autonomous agents**

*Session Chair: Zied Bouraoui*

- **26** Aymeric Rateau, Wim Van der Borght, Marcello Mastroelo, Alessandro Pietro Bardelli, Alessandro Bacchini and Federico Sassi: *Development of a novel driver model offering human like longitudinal vehicle control in order to simulate emission in real driving conditions*
- **61** Ana Paula Genari Martin, Paulo E. Santos and Marjan Safi-Samghabadi: *Consistency Check in a Multiple Viewpoint System Reasoning about Occlusion*
- **151** Bingbin Yu, José de Gea Fernández, Yohannes Kassahun and Vinzenz Bargsten: *Learning the Elasticity of a Series-Elastic Actuator for Accurate Torque Control*
- **105** Olivier Mason, Jean Baratgin and Frank Jamet: *NAO robot, transmitter of social cues: what impacts? The example with "endowment effect"* (short paper)

**Session 4.C (Special Track): Anomaly detection**

*Session Chair: Ryan McConville*

- **39** Fabian Braun, Olivier Caelen, Evgueni N. Smirnov, Steven Kelk and Bertrand Lebichot: *Improving Card Fraud Detection through Suspicious Pattern Discovery*
- **49** Wan-Jui Lee: *Contextual Air Leakage Detection in Train Braking Pipes*
- **71** Cherif Dani, Mohamed Cherif Dani, Henri Doreau and Samantha Alt: *K-Means Application for Anomaly Detection and Log Classification in HPC*
- **146** Fernando Ropero, Daniel Vaquerizo, Pablo Muñoz and María Dolores Rodríguez: *An advanced teleassistance system to improve life quality in the Elderly*
## Thursday, June 29th

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<th>1:30pm -&gt; 3:30pm</th>
<th>Parallel sessions 5</th>
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<tr>
<td><strong>Session 5.A</strong></td>
<td><strong>Session 5.B</strong></td>
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<tr>
<td>Constraints, planning and optimization 2</td>
<td>Sentiment analysis and social media</td>
</tr>
<tr>
<td>Session Chair : Malek Mouhoub</td>
<td>Session Chair : Fujita Hamido</td>
</tr>
<tr>
<td>▪ 12 Eisa Alanazi, Malek Mouhoub and Mahmoud Halfawy <em>A New System for the Dynamic Shortest Route Problem</em></td>
<td>▪ 21 Yifan Liu, Zengchang Qin, Pengyu Li and Tao Wan <em>Stock Volatility Prediction Using Recurrent Neural Networks with Sentiment Analysis</em></td>
</tr>
<tr>
<td>▪ 51 Jeng-Shyang Pan, Zhenyu Meng, Huarong Xu and Xiaoning Li <em>A matrix-based implementation of DE algorithm: the compensation and deficiency</em></td>
<td>▪ 45 Sabrine Mallek, Imen Boukhris, Zied Elouedi and Eric Lefèvre <em>Evidential Link Prediction in Uncertain Social Networks Based on Node Attributes</em> (short paper)</td>
</tr>
<tr>
<td>▪ 137 Hanqing Zhao, Zengchang Qin, Weijia Liu and Tao Wan <em>A Bayesian Model of Game Decomposition</em></td>
<td>▪ 76 Khaled Alomari, Hatem Elsherif and Khaled Shaalan <em>Arabic Tweets Sentimental Analysis using Machine Learning</em> (short paper)</td>
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| 3:30pm -> 4pm | Coffee break - Posters |
| 6 pm -> 7:30pm | Social event (Louvre-Lens Museum visit) |
| 8pm -> 10pm | Banquet (at L’Atelier de Marc Meurin) |

### Special Tracks
**Session 5.C** (Special Track)

- **Graphical Models: From Theory to Applications**
  - Session Chair : Simon de Givry
  - ▪ 9 Romain Rincé, Romain Kervarc, Philippe Leray
    *On the Use of WalkSAT Based Algorithms for MLN Inference in Some Realistic Applications* (short paper)
  - ▪ 27 Anders Madsen, Nicolaj Søndergaard-Jeppesen, Mohamed Sayed, Michael Peschl and Niels Lohse
    *Applying Object-Oriented Bayesian Networks for Smart Diagnosis and Health Monitoring at both Component and Factory Level* (short paper)
  - ▪ 144 Nahla Ben Amor, Didier Dubois, Hélène Gouider and Henri Prade
    *Graphical representations of multiple agent preferences* (short paper)
  - ▪ 70 Thierno Kante and Philippe Leray
    *A Probabilistic Relational Model approach for Fault Trees modeling* (short paper)
  - ▪ 107 Narjes Ben Hariz and Boutheina Ben Yaghlane
    *Incremental Method for Learning Parameters in Evidential Networks* (short paper)
  - ▪ 130 Lionel Torti, Christophe Gonzales and Wuillemin Pierre-Henri
    *aGrUM: a Graphical Universal Model framework* (short paper)
## Friday, June 30th

**8:45am -> 9:45am**
**Invited talk 3**
**Fuzzy Semantic Web Languages and Beyond** (Umberto Straccia, STI-CNR – Pisa, Italy)
Chair: Henri Prade

**9:45am -> 10:15am**
Coffee break

**10:15am -> 12:15pm**

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<tr>
<th>Session 6.A</th>
<th>Games, computer vision and animation</th>
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<tr>
<td><strong>Games</strong></td>
<td>50 Ma Thi Chau, Tabia Karim, Lagrue Sylvain, Le Thanh Ha, Bui The Duy and Nguyen Thanh Thy Annotating movement phrases in Vietnamese folk dance videos</td>
</tr>
<tr>
<td><strong>Computer vision</strong></td>
<td>113 Quentin Labernia, Victor Codocedo, Céline Robardet, and Mehdi Kaytoue Mining the Lattice of Binary Classifiers for Identifying Duplicate Labels in Behavioral Data</td>
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<tr>
<td><strong>Animation</strong></td>
<td>127 Kuniko Yamada, Hiroshi Ueda, Harumi Murakami, and Ikuko Oka Presenting Mathematical Expression Images on Web to Support Mathematics Understanding (short paper)</td>
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<tr>
<td><strong>3D Animation</strong></td>
<td>131 Yootthapong Tongpaeng, Mongkol Ratanakham, Pradorn Sureephonh and Santichai Wicha Implementing A Tool for Translating Dance Notation to Display in 3D Animation: A Case Study of Thai Traditional Dance (short paper)</td>
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<tr>
<td><strong>Dancing</strong></td>
<td>136 Ob-Oern Muangmoon, Pradorn Sureephonh and Karim Tabia Dance Training Tool using Kinect-based Skeleton Tracking and Evaluating Dancer’s Performance (short paper)</td>
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<tr>
<td><strong>Game Design</strong></td>
<td>155 Ismael Sagredo-Olivenza, Pedro Pablo Gómez-Martín, Marco Antonio Gómez-Martín and Pedro A. González-Calero Using Program by Demonstration and Visual Scripting to supporting Game Design (short paper)</td>
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<tr>
<th>Session 6.B</th>
<th>Uncertainty management</th>
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<tr>
<td><strong>Conjunction</strong></td>
<td>82 Angelo Gilio and Giuseppe Sanfilippo Conjunction and disjunction among conditional events</td>
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<tr>
<td><strong>Disjunction</strong></td>
<td>53 Andrea Capotorti and Marco Baiocetti An efficient probabilistic merging applied to statistical matching</td>
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<tr>
<td><strong>Interval-based possibility</strong></td>
<td>73 Giulianella Coletti, Davide Petturiti and Barbara Vantaggi Interval-based possibilistic logic in a coherent setting</td>
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<tr>
<td><strong>Experimental evaluation</strong></td>
<td>78 Jean Baratgin, Giulianella Coletti, Frank Jamet and Davide Petturiti Experimental evaluation of the understanding of qualitative probability and probabilistic reasoning in young children (short paper)</td>
</tr>
<tr>
<td><strong>Gold standards</strong></td>
<td>138 Linda Assabi and Imen Boukhris A gold standards-based crowd label aggregation within the belief function theory</td>
</tr>
<tr>
<td><strong>Robust</strong></td>
<td>37 Amanda Whitbrook, Qianggang Meng and Paul Chung A Robust, Distributed Task Allocation Algorithm for Time-Critical, Multi Agent Systems Operating in Uncertain Environments</td>
</tr>
<tr>
<td><strong>Set-valued approach</strong></td>
<td>157 Didier Dubois and Henri Prade A set-valued approach to multiple source evidence (short paper)</td>
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<thead>
<tr>
<th>Session 6.C (Special Track)</th>
<th>Innovative Applications of Textual Analysis based on AI</th>
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<td><strong>Active Learning</strong></td>
<td>163 Hao Shao Active Learning for Text Mining from Crowds</td>
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<tr>
<td><strong>Chinese Lyrics Generation</strong></td>
<td>168 Xing Wu, Zhikang Du, Shuji Dai, Yanzhou Liu and Mingyu Zhong Chinese Lyrics Generation using Long Short-Term Memory Neural Network</td>
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<tr>
<td><strong>CN-DBpedia</strong></td>
<td>169 Bo Xu, Yong Xu, Jiaqiang Liang, Chenhao Xie, Bin Liang, Wanyun Cui and Yanghua Xiao CN-DBpedia: A Never-Ending Chinese Knowledge Extraction System</td>
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<tr>
<td><strong>Aspect-Based Rating Prediction</strong></td>
<td>170 Yinglin Wang, Yi Huang and Ming Wang Aspect-Based Rating Prediction on Reviews Using Sentiment Strength Analysis</td>
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<tr>
<td><strong>Using Topic Labels</strong></td>
<td>171 Wanqiu Kou, Fang Li and Zhe Ye Using Topic Labels for Text Summarization</td>
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<tr>
<td><strong>Pair-Aware Neural Sentence Modeling</strong></td>
<td>172 Deng Cai and Hai Zhao Pair-Aware Neural Sentence Modeling for Implicit Discourse Relation Classification</td>
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**12:15pm -> 12:30pm**

****** Closing session ******

**12:30am-2pm**

****** Lunch ******
List of posters:

- **22** Petr Sosnin and Michail Galochkin  
  *Way of Coordination of Visual Modeling and Mental Imagery in Conceptual Solution of Project Task*

- **43** Dennis Romero, Angely Oyola and Boris Vintimilla  
  *A Dijkstra-based algorithm for selecting the Shortest-Safe Evacuation Routes in dynamic environments (SSER)*

- **46** Marco Menapace and Armando Tacchella  
  *Ontologies in System Engineering: a Field Report*

- **60** Annemarie Borg, Daniel Frey, Dunja Seselja and Christian Strasser  
  *An argumentative agent-based model of scientific inquiry*

- **83** Fadoua Chakchouk, Julien Vion, Sylvain Piechowiak, René Mandiau, Makram Soui and Khaled Ghedira  
  *Replication in fault-tolerant distributed CSP*

- **87** Ismat Chaib Draa, Emmanuelle Grislin and Smail Niar  
  *An energy-aware learning agent for power management in mobile devices*

- **133** Suepphong Chernbumroong, Pradorn Sureephong and Yootthapong Tongpaeng  
  *Chiang Mai Digital Craft: A Case Study of Craftsmanship’s Knowledge Representation Using Digital Content Technology*

- **140** Evangelos Karampotsis, Konstantinos Boulas, Alexandros Tzanetos, Vasilios P. Androvitsaneas, Ioannis F. Gonos, Georgios Dounias and Ioannis A. Stathopulos  
  *Computational Intelligence Techniques for Modelling the Critical Flashover Voltage of Insulators: From Accuracy to Comprehensibility*

- **178** Ondrej Krejcar and Ali Selamat  
  *Optimal Route Prediction as a Smart Mobile Application of Gift Ideas*

The poster sessions are scheduled on Thursday, June 29th from 9:45am to 4pm. Poster authors are requested to be present at their poster at least during the coffee breaks. For the posters’ size, the authors are encouraged to use the standard A0 using the portrait orientation.