

Conference program

Tuesday, June 27 th		
1:30pm -> 5pm		
	Workshop 1	Workshop 2
IEA/AIE'17 Registration	WASPIQ Workshop on ASP technologIes for Querying large scale multisource heterogeneous web information Program: http://waspiq2017.lsis.org/waspiq2017/?q=node/9	CAnimAI Computer Animation and Artificial Intelligence Program: http://www.cril.univ-artois.fr/ieaaie2017/main/canimai/

Wednesday,	June 28 th
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Wednesday) June 20		
1:30pm -> 3pm	Parallel sessions 2	
Session 2.A Data mining & Machine learning (2) Session Chair: Ilyes Jenhani	Session 2.B Sensors, signal processing and data fusion Session Chair: Nicholas Nechval	Session 2.C (Special Track) Agronomy and Artificial Intelligence Session Chair: Pierre Bisquet
 121 Hugo Lewi Hammer and Anis Yazidi 	 42 Md Hossain and Khandaker Rahman 	■ 15 Paul Darwen
 Incremental Quantiles Estimators for Tracking Multiple Quantiles 19 Giovanni Rottoli, Hernan Merlino and Ramon Garcia-Martinez Co-Location Rules Discovery Process Focused on Reference Spatial Features Using Decision Tree Learning (short paper) 23 Tracey John and Dwaine Clarke Virtual Career Advisor System with an Artificial Neural Network (short paper) 57 Ikram Chraibi Kaadoud, Nicolas Rougier and Frederic Alexandre Implicit knowledge extraction and structuration from electrical diagrams (short paper) 159 Jerzy Martyna Fuzzy Reinforcement Learning for Routing in Multi-Hop Cognitive Radio Networks (short paper) 	An Empirical Study on Verifier Order Selection in Serial Fusion Based Multi-biometric Verification System 166 Hamido Fujita, Vidya K. Sudarshan, Muhammad Adam, Shu Lih Oh, Jen Hong Tan, Yuki Hagiwara, Kuang Chua Chua, Kok Poo Chua, and U. Rajendra Acharya Characterization of Cardiovascular Diseases Using Wavelet Packet Decomposition and Nonlinear Measures of Electrocardiogram Signal 175 Ondrej Krejcar and Orcan Alpar Biometric Keystroke Signal Preprocessing Part I: Signalization, Digitization and Alteration 7 Shiang-Tai Liu An application of fuzzy signal-tonoise ratio to the assessment of manufacturing processes (short paper) 125 Bing Zhou, Hyuk Cho and Adam Mansfield Robust Sensor Data Fusion through Adaptive Threshold Learning (short paper) 176 Ondrej Krejcar and Orcan Alpar Biometric Keystroke Signal Preprocessing Part II:	 Bayesian Model Averaging for Streamflow Prediction of Intermittent Rivers 111 Sara Maqrot, Simon De Givry, Gauthier Quesnel and Marc Tchamitchian A Mixed Integer Programming Reformulation of the Mixed Fruit-Vegetable Crop Allocation Problem 149 Sara Meftah, Antoine Cornuéjols, Juliette Dibie and Mariette Sicard Data collection and analysis of usages from connected objects: some lessons 160 Jaen Alberto Arroyo, Cecilia Gomez-Castaneda, Elias Ruiz, Enrique Munoz de Cote, Francisco Gavi and Luis Enrique Sucar Assessing Nitrogen Nutrition in Corn Crops with Airborne Multispectral Sensors 94 Rallou Thomopoulos and Dominique Paturel Multidimensional analysis through argumentation? Contributions from a short food supply chain experience (short paper) 101 Rallou Thomopoulos, Bernard Moulin and Laurent
	Manipulation (short paper)	Bedoussac Combined Argumentation and Simulation to Support Decision. (short paper)
3pm -> 3:30pm ******* Coffee break ******		

Wednesday, June 28 th		
3:30pm -> 5:30pm	Parallel sessions 3	
Session 3.A	Session 3.B	Session 3.C (Special Track)
Recommender systems	Decision support systems	Intelligent Systems in Healthcare and
Session Chair : Sylvie Doutre	Session Chair : Pradorn Sureephong	mHealth for Health Outcomes
		Session Chairs: Jiang Bian & François
		Modave
 63 Ludovik Çoba and Markus Zanker 	28 Nicholas Nechval, Gundars Berzins, Vadims Danovics	■ 106 Julia Mollee, Eric Fernandes de Mello
Replication and reproduction in	A New Dynamic Model for Anticipatory Adaptive	Araujo and Michel Klein Exploring Parameter
recommender systems research - evidence	Control of Airline Seat Reservation via Order Statistics	Tuning for Analysis and Optimization of a
from a case-study with the Rrecsys library	of Cumulative Customer Demand	Computational Model
 80 Raoua Abdelkhalek, Imen Boukhris and Zied 	 77 Amira Dhouib, Abdelwaheb Trabelsi, Christophe Kolski 	 148 Omar Eltayeby, Todd Eaglin, Malak
Elouedi	and Mahmoud Neji A Multi-Criteria Decision Support	Abdullah, David Burlinson, Wenwen Dou and
A New User-Based Collaborative Filtering	Framework for Interactive Adaptive Systems Evaluation	Lixia Yao Detecting Drinking-Related
Under the Belief Function Theory	 93 Fadwa Oukhay, Hajer Ben Mahmoud and Taieb Ben 	Contents on Social Media by Classifying
 108 Sabrine Ben Abdrabbah, Manel Ayadi, 	Romdhane Application of Multi-Criteria Decision	Heterogeneous Data Types
Raouia Ayachi and Nahla Ben Amor	Making Method for Developing a Control Plan	167 Riyi Qiu, Mirsad Hadzikadic and Lixia Yao
Aggregating Top-K Lists in Group	142 Mariam Ben Hassen, Mohamed Turki and Faïez	Estimating Disease Burden Using Google
Recommendation using Borda Rule	Gargouri Towards Extending Business Process Modeling	Trends and Wikipedia Data 173 Muhammad Amith Yaoyun Zhang Hua Xu
115 Muesluem Atas, Alexander Felfernig, Thi Naca Trans Martin Statistics and Sada	Formalisms with Information and Knowledge Dimensions	 173 Muhammad Amith, Yaoyun Zhang, Hua Xu and Cui Tao Knowledge-based Approach for
Ngoc Trang Tran, Martin Stettinger and Seda Polat Erdeniz	36 Nicholas Nechval, Gundars Berzins, Vadims Danovics	Named Entity Recognition in Biomedical
An Analysis of Group Recommendation	Adaptive Planning In-Service Inspections of Fatigued	Literature, a Use Case in Biomedical
Heuristics for High- and Low-Involvement	Structures in Damage Tolerance Situations via	Software Identification
Items	Observations of Crack Growth Process (short paper)	■ 174 Olivia Zhang, Yaoyun Zhang, Jun Xu, Kirk
 147 Montassar Ben Messaoud, Ilyes Jenhani, Eya 	 56 Roxane Koitz, Johannes Lüftenegger, and Franz Wotawa 	Roberts, Xiang Y. Zhang and Hua Xu I
Garci and Toon De Pessemier SemCoTrip: A	Model-Based Diagnosis in Practice: Interaction Design	Interweaving Domain Knowledge and
variety-seeking model for recommending	of an Integrated Diagnosis Application for Industrial	Unsupervised Learning for Psychiatric
travel activities in a composite trip	Wind Turbines (short paper)	Stressor Extraction from Clinical Notes
 97 Mounira Souli, Ahmed Badreddine and 	• 100 Karim El Mernissi, Pierre Feillet, Nicolas Maudet and	• 110 Julia Mollee and Michel Klein Empirical
Taieb Ben Romdhane A New model to	Wassila Ouerdane Introducing causality in business	validation of a computational model of
implement a SWOT Fuzzy ANP (short paper)	rule-based decisions (short paper)	influences on physical activity behavior
6pm -> 8pm	6pm -> 8pm Arras historical visit (Belfry and subterranean galleries of the Boves)	
8pm -> 9pm	Welcome ceremony	

Thursday, June 29 th			
8:45am -> 9:45am Invited talk 2 Rational Enterprise Architecture (Leendert van der Torre, University of Luxembourg) Chair: Gabriele Kern-Isberner			
9:45am -> 10:15am	Coffee break - Posters		
10:15am -> 12pm	10:15am -> 12pm Parallel sessions 4		
Session 4.A Knowledge representation and reasoning Chairs:G. Kern Isberner and C. Eichhorn	Session 4.B Navigation, control and autonomous agents Session Chair : Zied Bouraoui	Session 4.C (Special Track) Anomaly detection Session Chair: Ryan McConville	
 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) 	 26 Aymeric Rateau, Wim Van der Borght, Marcello Mastroleo, 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 10 Giulia Mastrodonato, Domenico Camarda, Caterina De Lucia and Dino Borri The effect of rotation in the navigation of multi-level buildings: A pilot study (short paper) 105 Olivier Mason, Jean Baratgin and Frank Jamet NAO robot, transmitter of social cues: what impacts? The example with "endowment effect" (short paper) 177 Jiri Bradle, Jakub Mesicek, Ondrej Krejcar, Ali Selamat and Kamil Kuca Arduino as a Control Unit for the System of Laser Diodes (short paper) 	 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 154 Mahdi Washha, Aziz Qaroush, Florence Sedes and Manel Mezghani Information Quality in Social Networks: A Collaborative Method for Detecting Spam Tweets in Trending Topics 146 Fernando Ropero, Daniel Vaquerizo, Pablo Muñoz and María Dolores Rodríguez An advanced teleassistance system to improve life quality in the Elderly 	
12pm -> 1:30pm ****** Lunch ******			

Thursday, June 29 th		
1:30pm -> 3:30pm	Parallel sessions 5	
Session 5.A Constraints, planning and optimization 2 Session Chair : Malek Mouhoub	Session 5.B Sentiment analysis and social media Session Chair: Fujita Hamido	Session 5.C (Special Track) Graphical Models: From Theory to Applications Session Chair: Simon de Givry
 12 Eisa Alanazi, Malek Mouhoub and Mahmoud Halfawy A New System for the Dynamic Shortest Route Problem 33 Yuyan Sun, Yuxuan Liang, Zizhen Zhang and Jiahai Wang M-NSGA-II: A Memetic Algorithm for Vehicle Routing Problem with Route Balancing 51 Jeng-Shyang Pan, Zhenyu Meng, Huarong Xu and Xiaoqing Li A matrix-based implementation of DE algorithm: the compensation and deficiency 137 Hanqing Zhao, Zengchang Qin, Weijia Liu and Tao Wan A Bayesian Model of Game Decomposition 158 Anis Yazidi, Hugo Lewi Hammer and Tore Jonassen Two-Timescale Learning Automata for Solving Stochastic Nonlinear Resource Allocation Problems 164 Zarrouk Rim, Imed Bennour, Abderrazek Jemai and Abdelghani Bekrar FJS Problem under Machine Breakdown (short paper) 	 21 Yifan Liu, Zengchang Qin, Pengyu Li and Tao Wan Stock Volatility Prediction Using Recurrent Neural Networks with Sentiment Analysis 30 Han Wang and Jia-Ling Koh Timeline Summarization for Event-related Discussions on a Chinese Social Media Platform 45 Sabrine Mallek, Imen Boukhris, Zied Elouedi and Eric Lefevre Evidential Link Prediction in Uncertain Social Networks Based on Node Attributes (short paper) 76 Khaled Alomari, Hatem Elsherif and Khaled Shaalan Arabic Tweets Sentimental Analysis using Machine Learning (short paper) 86 C. Natalie van der Wal, Maik Couwenberg and Tibor Bosse Getting Frustrated: Modelling Emotion Contagion in Stranded Passengers (short paper) 123 Orestes Appel, Francisco Chiclana, Jenny Carter and Hamido Fujita A consensus approach to sentiment analysis (short paper) 89 C. Natalie van der Wal, Daniel Formolo and Tibor Bosse An Agent-Based Evacuation Model with Social Contagion Mechanisms and Cultural Factors (short paper) 	 9 Romain Rincé, Romain Kervarc, Philippe Leray On the Use of WalkSAT Based Algorithms for MLN Inference in Some Realistic Applications 27 Anders Madsen, Nicolaj Søndberg-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 144 Nahla Ben Amor, Didier Dubois, Héla Gouider and Henri Prade Graphical representations of multiple agent preferences 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)
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)		

Friday, June 30 th			
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	10:15am -> 12:15pm Parallel sessions 6		
Session 6.A Games, computer vision and animation Session Chair : Ali Selamat	Session 6.B Uncertainty management Session Chair: Davide Petturiti	Session 6.C (Special Track) Innovative Applications of Textual Analysis based on AI Session Chair: Yinglin Wang	
 50 Ma Thi Chau, Tabia Karim, Lagrue Sylvain, Le Thanh Ha, Bui The Duy and Nguyen Thanh Thuy Annotating movement phrases in Vietnamese folk dance videos 113 Quentin Labernia, Victor Codocedo, Céline Robardet, and Mehdi Kaytoue Mining the Lattice of Binary Classifiers for Identifying Duplicate Labels in Behavioral Data 127 Kuniko Yamada, Hiroshi Ueda, Harumi Murakami, and Ikuo Oka Presenting Mathematical Expression Images on Web to Support Mathematics Understanding (short paper) 131 Yootthapong Tongpaeng, Mongkhol Rattanakhum, Pradorn Sureephong and Santichai Wicha Implementing A Tool for Translating Dance Notation to Display in 3D Animation: A Case Study of Thai Traditional Dance (short paper) 136 Ob-Orm Muangmoon, Pradorn Sureephong and Karim Tabia Dance Training Tool using Kinect-based Skeleton Tracking and Evaluating Dancer's Performance (short paper) 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) 	 82 Angelo Gilio and Giuseppe Sanfilippo Conjunction and disjunction among conditional events 53 Andrea Capotorti and Marco Baioletti	 163 Hao Shao Active Learning for Text Mining from Crowds 168 Xing Wu, Zhikang Du, Shuji Dai, Yazhou Liu and Mingyu Zhong Chinese Lyrics Generation using Long Short-Term Memory Neural Network 169 Bo Xu, Yong Xu, Jiaqing Liang, Chenhao Xie, Bin Liang, Wanyun Cui and Yanghua Xiao CN-DBpedia: A Never-Ending Chinese Knowledge Extraction System 170 Yinglin Wang, Yi Huang and Ming Wang Aspect-Based Rating Prediction on Reviews Using Sentiment Strength Analysis 171 Wanqiu Kou, Fang Li and Zhe Ye Using Topic Labels for Text Summarization 172 Deng Cai and Hai Zhao Pair-Aware Neural Sentence Modeling for Implicit Discourse Relation Classification 	
12:15pm -> 12:30pm ******* Closing session ******			
12:30am-> 2pm			

List of posters:

- 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 Routes in dynamic environments (SSER)
 A Dijkstra-based algorithm for selecting the Shortest-Safe Evacuation
- 46 Marco Menapace and Armando Tacchella Ontologies in System Engineering: a Field Report
- 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
- Suepphong Chernbumroong, Pradorn Sureephong and Yootthapong Tongpaeng Chiang Mai Digital Craft: A Case Study of Craftsmanship's Knowledge Representation Using Digital Content Technology
- 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.