Conference Program

AI*IA 2015 CONFERENCE
14th Conference of the Italian Association for Artificial Intelligence
Ferrara 23-25 September 2015
aixia2015.unife.it

Invited speakers: Laurent Perron, Kristian Kersting, Oren Etzioni, Kevin Warwick.
Program chairs: Marco Savarelli, Evelina Lamma, Fabrizio Riguzzi.
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1. Notation for Conference Rooms

G  The room is in Giordani Palace

T  The room is in Trotti Mosti Palace

GF The room is on the ground floor

1F The room is on the first floor

Examples:

- Main Room (T-1F) means that the room is in Trotti Mosti Palace on the first floor
- Acquario Room (G-GF) means that the room is in Giordani Palace on the ground floor
2. Main Conference Program

2.1. Wednesday 23rd, September 2015

08.30 – 14.30 Registration.................................................................Main Room Entrance (T-1F)

08.50 – 09.00 Opening AI*IA Doctoral Consortium.........................Main Room (Plenary) (T-1F)

Chair: Elena Bellodi, Alessio Bonfietti

09.00 – 10.40 Doctoral Consortium Presentations.........................Main Room (Plenary) (T-1F)

Chairs: Elena Bellodi, Alessio Bonfietti

- Logic Programming Techniques for Reasoning with Probabilistic Ontologies
  Riccardo Zese, Elena Bellodi, Evelina Lamma and Fabrizio Riguzzi

- Structure Learning with Distributed Parameter Learning for Probabilistic Ontologies
  Giuseppe Cota, Riccardo Zese, Elena Bellodi, Evelina Lamma and Fabrizio Riguzzi

- STOLE: A Reference Ontology for Historical Research Documents
  Laura Pandolfo

- Ontology Based Semantic Image Interpretation
  Ivan Donadello

10.40 – 11.10 Coffee Break...............................................................Acquario Room (G-GF)

11.10 – 12.25 Doctoral Consortium Presentations.........................Main Room (Plenary) (T-1F)

Chairs: Elena Bellodi, Alessio Bonfietti

- Labelled Variables in Logic Programming: A First Prototype in tuProlog
  Roberta Calegari, Enrico Denti and Andrea Omicini

- Learning Static Constraints for Domain Modeling from Training Plans
  Rabia Jilani

- A CP Scheduler for High-Performance Computers
  Thomas Bridi, Michele Lombardi, Andrea Bartolini, Luca Benini, and Michela Milano

12.25 – 14.20 Lunch .................................................................Acquario Room (G-GF)

14.20 – 14.30 Opening AI*IA XIV Conference.................................Main Room (Plenary) (T-1F)

Chair: Fabrizio Riguzzi

14.30 – 15.30 Invited Talk by

Laurent Perron (Google).................................................................Main Room (Plenary) (T-1F)

Chair: Marco Gavanelli

15.30 – 16.00 Paper Short Presentations

6 Papers – Session 1A.................................................................Main Room (Plenary) (T-1F)

Chair: Marco Maratea

- Collective Self-Awareness and Self-Expression for Efficient Network Exploration
  Michele Amoretti and Stefano Cagnoni
Dynamical Properties of Artificially Evolved Boolean Network Robots
Andrea Roli, Marco Villani, Roberto Serra, Stefano Benedettini, Carlo Pinciroli and Mauro Birattari

Empowering Agent Coordination with Social Engagement
Matteo Baldoni, Cristina Baroglio, Federico Capuzzimati and Roberto Micalizio

Cooperating with Trusted Parties Should Make Life Easier
Stefania Costantini, Pasquale Ciaianello, Giovanni De Gasperis and Subhasis Thakur

Learning Accurate Cutset Networks by Exploiting Decomposability
Nicola Di Mauro, Antonio Vergari and Floriana Esposito

An Approach to Predicate Invention Based on Statistical Relational Model
Stefano Ferilli and Giuseppe Fatiguso

16.00 – 16.30 Coffee Break .......................................................... Acquario Room (G-GF)

16.30 – 17.00 Paper Short Presentations
6 Papers – Session 1B .................................................................. Main Room (Plenary) (T-1F)
Chair: Toni Mancini

GENOMA: a GENeric Ontology Matching Architecture
Maria Teresa Pazienza, Roberto Enea and Andrea Turbati

Advances in Multi-Engine ASP Solving
Marco Maratea, Luca Pulina and Francesco Ricca

Bootstrapping Large Scale Polarity Lexicons through Advanced Distributional Methods
Giuseppe Castellucci, Danilo Croce and Roberto Basili

A Logic-Based Approach to Named-Entity Disambiguation in the Web of Data
Silvia Giannini, Simona Colucci, Francesco M. Donini and Eugenio Di Sciascio

Enriching a Timeline-Based Planner with Resource and Hierarchical Reasoning
Alessandro Umbrico, Marta Cialdea Mayer and Andrea Orlandini

Approaching Qualitative Spatial Reasoning About Distances and Directions in Robotics
Guglielmo Gemignani, Roberto Capobianco and Daniele Nardi

17.00 – 18.40 Social Session 1A (6 Papers) ................................. Council Room (G-1F)
17.00 – 18.40 Social Session 1B (6 Papers) ............................... Acquario Room (G-GF)
17.00 – 18.15 Doctoral Consortium Presentations .................... Main Room (T-1F)
Chairs: Elena Bellodi, Alessio Bonfietti

Profiling the Linked Open Data
Blerina Spahiu

Recommender Systems supporting Decision Making through Analysis of User Emotions and Personality
Marco Polignano and Marco de Gemmis

Interaction with a personalised smart space for enhancing everyday life
Assunta Matassa
2.2. Thursday 24th, September 2015

08.30 – 9.00 Registration.................................................................Main Room Entrance (T-1F)

09.00 – 10.00 Invited Talk by
Kristian Kersting (Technical University of Dortmund) ........Main Room (Plenary) (T-1F)
Chair: Fabrizio Riguzzi

09.00 – 10.00 Doctoral Consortium Posters .........................Ballerine Room (T-1F)

10.00 – 10.30 Paper Short Presentations
6 Papers – Session 2A.................................................................Main Room (Plenary) (T-1F)
Chair: Nicola Di Mauro

- Swarm-Based Controller for Traffic Lights Management
  Federico Caselli, Alessio Bonfietti and Michela Milano

- Adaptive Hybrid Agents for Tactical Decisions in Pedestrian Simulation
  Luca Crociani, Andrea Piazzoni, Giuseppe Vizzari and Stefania Bandini

- Anticipatory Coordination in Socio-Technical Knowledge-Intensive Environments:
  Behavioural Implicit Communication in MoK
  Stefano Mariani and Andrea Omicini

- A Kinetic Study of Opinion Dynamics in Multi-Agent Systems
  Stefania Monica and Federico Bergenti

- Verification-Enhanced Learning for Safe Human-Robot Interaction
  Shashank Pathak, Luca Pulina and Armando Tacchella

- An AI Application to Integrated Tourism Planning
  Francesca Alessandra Lisi and Floriana Esposito

10.00 – 10.30 Doctoral Consortium Posters .........................Ballerine Room (T-1F)

10.30 – 11.00 Coffee Break............................................................Acquario Room (G-GF)

11.00 – 11.30 Paper Short Presentations
6 Papers – Session 2B .................................................................Main Room (Plenary) (T-1F)
Chair: Matteo Baldoni

- Open Data Integration Using SPARQL and SPIN: A Case Study for the Tourism Domain
  Antonino Lo Bue and Alberto Machi

- Defeasible Logic Programming in Satisfiability Modulo CHR
  Francesco Santini

- Using Semantic Models for Robust Natural Language Human Robot Interaction
  Emanuele Bastianelli, Danilo Croce, Roberto Basili and Daniele Nardi

- Using Semantic Models for Robust Natural Language Human Robot Interaction
  Emanuele Bastianelli, Danilo Croce, Roberto Basili and Daniele Nardi

- ASCoL: a Tool for Improving Automatic Planning Domain Model Acquisition
  Rabia Jilani, Andrew Crampton, Diane Kitchin and Mauro Vallati
11.00 – 11.30 Doctoral Consortium Posters ..................Ballerine Room (T-1F)
11.30 – 13.00 Social Session 2A (6 Papers) .......................Council Room (G-1F)
11.30 – 13.00 Social Session 2B (6 Papers) .......................Acquario Room (G-GF)
11.30 – 13.00 Doctoral Consortium Posters ......................Ballerine Room (T-1F)
13.00 – 14.30 Lunch ..................................................Acquario Room (G-GF)
14.30 – 16.00 Panel #AI4Society .................................Main Room (Plenary) (T-1F)

   Chair: Piero Poccianti

   • Introduction
     Piero Poccianti
   • Ethical Intelligent Systems
     Francesca Rossi
   • Economical Impact of AI
     Moshe Vardi
   • AI Won’t Exterminate Us, It Will Empower Us
     Oren Etzioni
   • Open Discussion
   • Closing
     Amedeo Cesta

16.00 – 16.30 Coffee Break .............................................Acquario Room (G-GF)
16.30 – 17.15 AI*IA Awards: AI*IA Somalvico Award 2015......Main Room (Plenary) (T-1F)
   Chairs: Amedeo Cesta, Francesca Lisi
16.30 – 17.15 Doctoral Consortium Posters ......................Ballerine Room (T-1F)
17.15 – 18.45 AI*IA Assembly
   AI*IA Steering Committee Election ..............................Main Room (Plenary) (T-1F)
17.15 – 18.45 Doctoral Consortium Posters ......................Ballerine Room (T-1F)
20.00 – 23.00 Conference Dinner ....................................Agriturismo Principessa Pio
2.3.  **Friday 25th, September 2015**

08.30 – 09.00 Registration .................................................................Main Room Entrance (T-1F)

09.00 – 10.00 Invited Talk by
Oren Etzioni (Allen Institute for AI) ..................................................Main Room (Plenary) (T-1F)

   Chair: Bernardo Magnini

10.00 – 10.30 Paper Short Presentations
6 Papers – Session 3A .................................................................Main Room (Plenary) (T-1F)

   Chair: Salvatore Ruggieri

   •  *Path Relinking for a Constrained Simulation-Optimization Team Scheduling Problem Arising in Hydroinformatics*
      Maddalena Nonato and Andrea Peano

   •  *Using Stochastic Optimization to Improve the Detection of Small Checkerboards*
      Hamid Hassannejad, Guido Matrella, Monica Mordonini and Stefano Cagnoni

   •  *Agent Based Simulation of Incentive Schemes on Photovoltaic Adoption*
      Andrea Borghesi, Valerio Iachini and Michela Milano

   •  *Feature-Based Modeling in Industry*
      Emilio Sanfilippo and Stefano Borgo

   •  *Common-Sense Knowledge for Natural Language Understanding: Experiments in Unsupervised and Supervised Settings*
      Luigi Di Caro, Alice Ruggeri, Loredana Cupi and Guido Boella

   •  *Empowered Negative Specialization in Inductive Logic Programming*
      Stefano Ferilli, Andrea Pazienza and Floriana Esposito

10.30 – 11.00 Coffee Break .........................................................Acquario Room (G-GF)

11.00 – 11.30 Paper Short Presentations
5 Papers – Session 3B .................................................................Main Room (Plenary) (T-1F)

   Chair: Michela Milano

   •  *A Multi-Engine Theorem Prover for a Description Logic of Typicality*
      Laura Giordano, Valentina Gliozzi, Nicola Olivetti, Gian Luca Pozzato and Luca Violanti

   •  *Abstract Solvers for Quantified Boolean Formulas and Their Applications*
      Remi Brochenin and Marco Maratea

   •  *Automatic Identification and Disambiguation of Concepts and Named Entities in the Multilingual Wikipedia*
      Federico Scozzafava, Alessandro Raganato, Andrea Moro and Roberto Navigli

   •  *Graph-Based Task Libraries for Robots: Generalization and Autocompletion*
      Steven Klee, Guglielmo Gemignani, Daniele Nardi and Manuela Veloso

   •  *Integrating Logic and Constraint Reasoning in a Timeline-based Planner*
      Riccardo De Benedictis and Amedeo Cesta
11.30 – 13.00 Social Session 3A (6 Papers) ..............................Council Room (G-1F)

11.30 – 13.00 Social Session 3B (5 Papers) ..............................Acquario Room (G-GF)

13.00 – 14.30 Lunch ...........................................................................................................Acquario Room (G-GF)

14.30 – 15.00 AI*IA Awards:
In Memory of Marco Cadoli Award for Best PhD Thesis ........Main Room (Plenary) (T-1F)

Chairs: Amedeo Cesta, Francesca Lisi

15.00 – 15.15 AI*IA Awards:
In Memory of Leo Lesmo Award for Best Thesis ..................Main Room (Plenary) (T-1F)

Chairs: Amedeo Cesta, Francesca Lisi

15.15 – 15.30 AI*IA2015 Awards:
In Memory of Giovanni Soda Award for AI*IA 2015 Best Paper, Best Application Paper, Best DC Paper ........................................................................Main Room (Plenary) (T-1F)

Chairs: Evelina Lamma, Alessio Bonfietti

15.30 – 16.30 Invited Talk by Kevin Warwick (Coventry University, England)
Jointly with UniFestival ..........................................................Main Room (Plenary) (T-1F)

Chair: Fabrizio Riguzzi

16.30 – 17.00 Closing........................................................................................................Main Room (Plenary) (T-1F)
Presenza di un parcheggio per disabili su via Arianuova, di fianco al palazzo. Car park for disabled people in via Arianuova, next to the building.
3.2. Map of Trottì Mosti Palace – First Floor
3.3. Map of Giordani Palace – Ground Floor

Parte non accessibile dell'edificio
Not accessible part of the building

Ascensore - Lift
Chiedere le chiavi in portineria.
Ask for the key at the janitor’s lodge.

Presenza di un parcheggio per disabili
su via Guarini, di fianco al palazzo.
Car park for disabled people in
via Guarini, next to the building.

Palazzo Giordani (Giordani Palace)
Piano Terra - Ground Floor
Corso Ercole l'Este, 44
3.4. Map of Giordani Palace – First Floor

Palazzo Giordani (Giordani Palace)
Primo Piano - First Floor
Corso Ercole I D'Este, 44