

Ilaria Tiddi

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Research Fields

Knowledge Management, Knowledge Representation, Semantic Web, Machine Learning, Robotics, Smart Cities, Artificial Intelligence

Employment

May 2016 – ongoing

Role: Research Associate, **Knowledge Media Institute**, The Open University, Milton Keynes, United Kingdom.

Topic: Allowing the interaction between robots and complex dynamic environments such as smart cities.

Projects: **MK:Smart** (data infrastructures for smart cities); **SciRoc** (2017-2020) EU-funded project on robotic competitions in smart cities).

Research areas: Robotics, Smart cities, Knowledge Representation, Internet of Things, Semantic Technologies, Data Analytics.

Minor tasks: Development of Web and mobile applications to support the small and medium enterprises.

Oct 2012 – Jun 2016

Role: Ph.D. candidate, **Knowledge Media Institute**, The Open University, United Kingdom.

Thesis title: Explaining Data Patterns using Knowledge from the Web of Data.

Research areas: Knowledge Representation, Semantic Web technologies, Machine Learning.

Supervisors: Dr Mathieu d'Aquin (lead), Prof Enrico Motta (senior).

Awards: Ph.D. thesis was recipient of the 2017 SWSA Distinguished Dissertation Award.

Feb 2009 – Jul 2009

Role: M.Sc. research internship, **MAS laboratory**, École Centrale Paris, France.

Topic: Discovery of dependency patterns for ontology population from the Web.

Research areas: Natural Language Processing, Information Retrieval, Ontology Population.

Supervisors: Prof Marie-Aude Aufaure

Education

(2012–2016) Ph.D. Web Data Mining, The Open University, Milton Keynes, United Kingdom

(2010–2012) MSc Natural Language Processing, La Sorbonne Nouvelle, Paris, France

(2006–2009) BA, German and Russian Linguistics and Translation, Sapienza University of Rome, Italy

Major Publications

Tiddi, I., Bastianelli, E., Bardaro, G., d'Aquin, M. , and Motta, E. (2017) **An ontology-based approach to improve the accessibility of ROS-based robotic systems**, The 9th International Conference on Knowledge Capture (K-CAP2017), Austin, Texas, United States

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Tididi, I., Bastianelli, E., Daga, E., and d'Aquin, M. (2016) **DKA-robo: dynamically updating time-invalid knowledge bases using robots**, Demo at 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW2016), Bologna, Italy

Tididi, I., Daga, E., Bastianelli, E. and d'Aquin, M. (2016) **Update of time-invalid information in Knowledge Bases through Mobile Agents**, Workshop on Integrating Multiple Knowledge Representation and Reasoning Techniques in Robotics (MIRROR-16), 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2016), Daejeon, South Korea

Tididi, I., d'Aquin, M. and Motta, E. (2016) **Learning to assess Linked Data relationships using Genetic Programming**, The 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan

Tididi, I., d'Aquin, M. and Motta, E. (2015) **An Ontology Design Pattern to Define Explanations**, The 8th International Conference on Knowledge Capture (K-CAP 2015), Palisades, New York, USA

Tididi, I., d'Aquin, M. and Motta, E. (2014) **Using Neural Networks to aggregate Linked Data rules**, 19th International Conference on Knowledge Engineering and Knowledge Management (EKAW2014), Linköping, Sweden

Tididi, I., d'Aquin, M. and Motta, E. (2014) **Quantifying the bias in data links**, 19th International Conference on Knowledge Engineering and Knowledge Management (EKAW2014), Linköping, Sweden

Tididi, I., d'Aquin, M. and Motta, E. (2014) **Dedalo: looking for Clusters' Explanations in a Labyrinth of Linked Data**, 11th Extended Semantic Web Conference (ESWC 2014), Crete, Greece

Other Research Activities

Publicity chair of the 9th International Conference on Knowledge Capture (K-CAP2017), Austin Texas, USA

Organisation support of the Semantic Web Summer School (SSSW2015, SSSW2016), Bertinoro, Italy

Co-organiser of the workshops **Re-coding Black Mirror** at ISWC2017; **Linked Data for Knowledge Discovery** (LD4KD2014, LD4KD2015) at ECML/PKDD 2014-2015

PC member of the major Web conferences since 2015 (ISWC, ESWC, EKAW, KCAP, WWW)

Student at the Robotics&AI Winter School (2016) and the Semantic Web Summer School (2013) (SSSW2013)

Skills

Proficient with Java, Python, Javascript, Unix programming

Proficient with Semantic Web technologies, graph analysis tools and SPARQL language

Proficient in R and Data Mining programs (e.g. Weka, Rapidminer)

Knowledge of robotics middlewares (such as ROS)

Experience with Mac, Unix and Windows operating systems

Native Italian speaker, fluency in English and French, conversational German and basic Russian