Curriculum Vitae

Marco Cerami

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Personal Information

Surname: Cerami Name: Marco

Date of Birth: February 4^{th} , 1977 **Place of Birth:** Sassari, Italy

Nationality: Italian

Address: Skolní ulice 2, 77900, Olomouc, Czech Republic Work address: Palacký University in Olomouc, Department

of Computer Science, 17.listopadu 12, 77146,

Olomouc, Czech Republic

 $\textbf{E-mail:} \hspace{1cm} marco.cerami@upol.cz, marco.cerami@gmail.com$

Webpage: http://phoenix.inf.upol.cz/~ceramim/marco.html

Education

PhD

Subject: Pure and Applied Logic

University: Universitat de Barcelona, Barcelona, Spain

Advisors: F. Esteva, F. Bou, L. Godo

Dissertation Fuzzy Description Logics from a Mathematical Fuzzy Logic

point of view

Date: October 16^{th} , 2012

Master of Science

Subject: Pure and Applied Logic

University: Universitat de Barcelona, Barcelona, Spain

Date: September 30^{th} , 2008

Degree

Faculty: Philosophy

University: Universitá degli Studi di Palermo, Palermo, Italy

Date: March 2^{nd} , 2004

Employment

Current employment

starting date: March 20^{th} , 2013

place: Univerzita Palacký (UP) of Olomouc, Faculty of Science,

Department of Computer Science

position: post-doctoral researcher

Past employment

starting date: October 1^{st} , 2008 ending date: September 30^{th} , 2012

place: Artificial Intelligence Research Institute (IIIA), Spanish

National Research Council (CSIC)

position: doctoral student

Academic Activity

Scientific talks

- Many-valued Horn Logic is Hard, Univerzita Palacký, Faculty of Sciences,
 Department of Computer Science, December 18th, 2015.
- Structural subsumption algorithm for Fuzzy Description Logics, Univerzita Palacký, Faculty of Sciences, Department of Computer Science, December 11th, 2015.
- Fuzzy Description Logics, Univerzita Palacký, Faculty of Sciences, Department of Computer Science, November 28^{th} , 2013.
- Description Logics: An Introduction, Universita Palacký, Faculty of Science, Department of Computer Science, November 21st, 2013.
- Una introducción a la Lógica Borrosa Matemática, SIMBA seminar, Universitat de Barcelona, Faculty of Mathematics, February 14^{th} , 2012.
- Decidability of a Description Logic over Infinite-Valued Łukasiewicz and Product Logic, Non-classical logic seminar, Universitat de Barcelona, Faculty of Mathematics, May 21st, 2010.
- Decidability of a Description Logic over Infinite-Valued Product Logic, scientific seminar at IIIA-CSIC, Bellaterra, March 17th, 2010.

Lectures

- Introduction to Modal Logic

place: Univerzita Palacký of Olomouc, Faculty of Sciences,

Department of Computer Science

period: 10.10.2013–5.12.2013

hours: 12

target group: academic personal and doctoral students

- Computer Science

place: Univerzita Palacký of Olomouc, Faculty of Sciences,

Department of Computer Science

period: 19.2.2014–9.4.2014

hours: 16

target group: master students

- Formal Concepts Analysis

place: Univerzita Palacký of Olomouc, Faculty of Sciences,

Department of Computer Science

period: 20.2.2014–27.3.2014

hours: 24

target group: master students

Conference talks

- Undecidability of Fuzzy Description Logics with GCIs under Łukasiewicz semantics, WL4AI workshop em ECAI 2012, Montpellier, August 28th, 2012.
- On Finitely Valued Fuzzy Description Logics: The Lukasiewicz Case, IPMU 2012, Catania, July 11th, 2012.
- From Classical Description Logic to n-graded Fuzzy Description Logic, Fuzz-IEEE 2010, Barcelona, July 22^{nd} , 2010.
- Decidability of a Description Logic over Infinite-Valued Product Logic, KR 2010, Toronto, May 10th, 2010.
- Vague Counterfactuals, ProbNet 2010, Salzburg, February 27th, 2010.
- On Quantitative Similarity-based Semantics for Counterfactuals, WUPES 2009, Liblice, September 23rd, 2009.

Poster presentations

 Complexity Sources in Fuzzy Description Logic. DL 2014, July, 18th, 2014, Vienna.

- Finite-valued Łukasiewicz Modal Logic is PSPACE-complete. IJCAI 2011,
 July 18th, 2011, Barcelona.
- Theoretical foundation of fuzzy description logics and their applications as languages for ontology representation, Doctoral Consortium at KR 2010, May 11th, 2010, Toronto.

Reviews

Journals

- Soft Computing.
- Reports on Mathematical Logic.
- Mathematical Logic Quarterly.
- International Journal of Semantic Web and Information Systems (IJSWIS).

Conferences

- PRUV 2014, Vienna, July, 23-24, 2014.
- DL 2014, Vienna, July 17-20, 2014.
- Fuzz-IEEE 2014, Beijing, July 6-11, 2014.
- EUSFLAT 2013, Milano, September 11–13, 2013.
- IJCAR 2012, Manchester, June 26-July 1, 2012.
- Fuzz-IEEE 2012, Brisbane, June, 10–15, 2012.
- ICISTM 2012, Grenoble, March, 28–30, 2012.
- IJCAI 2011, Barcelona, July, 16-22, 2011.
- Fuzz-IEEE 2011, Taipei, June, 27-30, 2011.

Program Committee membership

- $\ \, PRUV \ 2014, \ \, Vienna, \ \, July, \ 23–24, \ 2014.$
- IJCAI 2011, Barcelona, July, 16-22, 2011.

Funding

Grants

- Doctoral grant "JAE Predoc" n. 074, issued by the Spanish National Research Council (CSIC). Since October 1^{st} , 2008, until September 30^{th} , 2012.
- Postdoctoral grant in the framework of the European Social Fund (ESF) project "POST-UP II" No. CZ.1.07/2.3.00/30.0041 and co-financed by the state budget of Czech Republic. Since March 20th, 2013.

Research projects

 Participation in the project "ARINF" MICINN TIN2009-14704-C03-03, of the spanish Ministry for Science and Innovation (MICINN). Since January 1st, 2010, until September 30th, 2012.

Awards

- EUSFLAT 2012 Best PhD Thesis Award.

Languages

	spoken	written
Italian	native	native
${f Spanish}$	good	good
Catalan	good	medium
${f English}$	medium	medium
\mathbf{Czech}	low	low
German	low	low

Publications

Journal papers

- M. Cerami, A. García-Cerdaña, F. Esteva. On Finitely-valued Fuzzy Description Logics. International Journal of Approximate Reasoning (impact factor: 1,977). Vol. 55(9), pp. 1890–1916, 2014.
- 2. M. Cerami, U. Straccia. On the (Un)Decidability of Fuzzy Description Logics under Lukasiewicz t-norm. Information Sciences (impact factor: 3,893). Vol. 227, pp. 1–21, 2013.
- 3. M. Cerami, F. Esteva. Strict core fuzzy logics and quasi-witnessed models. Archive for Mathematical Logic (impact factor: 0,324). Vol. 50(5-6), pp. 625–641, 2011.

Book chapters

 M. Cerami, P. Pardo. Many-valued semantics for vague counterfactuals. In "Understanding Vagueness - Logical, Philosophical and Linguistic Perspectives", P. Cintula, C. G. Fermüller, L. Godo, P. Hájek editors, Studies in Logic, no. 36, pp. 341–362. College Publications, 2011.

Top international conference papers

- 1. F. Bou, M. Cerami, F. Esteva. Finite-valued Lukasiewicz modal logic is PSPACE-complete. In Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011, conference CORE rank: A*), pp. 774–779. Barcelona, 2011.
- M. Cerami, A. García-Cerdaña, F. Esteva. From classical description logic to n-graded fuzzy description logics. In Proceedings of the Fuzz-IEEE 2010 Conference (conference CORE rank: A), pp. 1506–1513. Barcelona, 2010.
- 3. M. Cerami, F. Esteva, F. Bou. Decidability of a description logic over infinite-valued product logic. In Proceedings of the 12th International Conference on Principles of Knowledge Representation and Reasoning (KR 2010, conference CORE rank: A*), pp. 203–213. Toronto, 2010.

Other international conference papers

- S. Borgwardt, M. Cerami, R. Peñaloza. Many-valued Horn Logic is Hard. In Proceedings of the 1st International Workshop on Logics for Reasoning about Preferences, Uncertainty and Vagueness (PRUV 2014), CEUR Workshop Proceedings, Vol. 1205, pp. 52–58. Vienna, 2014.
- M. Cerami, U. Straccia. Complexity Sources in Fuzzy Description Logic. In Proceedings of the 27th International Workshop on Description Logics (DL 2014), CEUR Workshop Proceedings, Vol. 1193, pp. 421–433. Vienna, 2014.
- T. Alsinet, D. Barroso, R. Bejar, F. Bou, M. Cerami, F. Esteva. On the implementation of a Fuzzy DL Solver over Infinite-Valued Product Logic with SMT Solvers. In Proceedings of the 7th Scalable Uncertainty Management International Conference (SUM 2013), pp. 325-330. Washington DC, 2013.
- F. Bou, M. Cerami, F. Esteva. Concept satisfiability in finite-valued fuzzy description logics is PSPACE-complete (extended abstract). In Proceedings of the Conference on Logic, Algebras and Truth Degrees 2012 (LATD 2012), pp. 44–48. Kanazawa, 2012.
- 5. M. Cerami, U. Straccia. Undecidability of Fuzzy Description Logics with GCIs under Lukasiewicz Semantics. In Proceedings of the 1^{st} Workshop

- on Weighted Logics for Artificial Intelligence (WL4AI 2012), pp. 51-58. Montpellier, 2012.
- M. Cerami, F. Esteva, A. Garcìa-Cerdaña. On finitely valued fuzzy description logics: The Lukasiewicz case. In Proceedings of the 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2012), pp. 235–244. Catania, 2012.
- 7. M. Cerami, F. Esteva, F. Bou; Decidability of a Description Logic over infinite-valued Product Logic (extended abstract). In Proceedings of the 3rd Linz Seminar: Lattice-valued Logic and its Applications, pp. 21–25. Linz, 2010.

National conference papers

- M. Cerami, F. Esteva. Completeness of a PSPACE algorithm for concept satisfiability in finite-valued Fuzzy Description Logics. In Proceedings of the XVII Congreso Español de Tecnología y Lógica Fuzzy (ESTYLF 2014), pp. 429–434. Zaragoza, 2014.
- M. Cerami, F. Esteva. First order SMTL logic and quasi-witnessed models. In Proceedings of the XV Congreso Español de Tecnología y Lógica Fuzzy (ESTYLF 2010), pp. 145–150. Huelva, 2010.

Technical reports

1. M. Cerami, U. Straccia. On the undecidability of fuzzy description logics with GCIs with Lukasiewicz t-norm. Technical report, Computing Research Repository. Available at http://arxiv.org/abs/1107.4212.