

INFORMAZIONI PERSONALI **Fabrizio Riguzzi**

ESPERIENZA LAVORATIVA

nov 2014 - oggi **Professore associato di Informatica (settore INF/01) presso il Dipartimento di Matematica e Informatica dell'Università degli Studi di Ferrara**

Docente dei corsi di

- Linguaggi di Programmazione e Laboratorio
- Data Mining & Analytics
- Tecnologie per le basi di dati
- Laboratorio di Intelligenza Artificiale

nov 1999 - ott 2014 **Ricercatore di Ingegneria Informatica (settore ING-INF/01) presso il Dipartimento di Ingegneria dell'Università degli Studi di Ferrara**

Docente dei corsi di

- Applicazioni di Intelligenza Artificiale
- Sistemi Informativi
- Fondamenti di Informatica
- Ingegneria del software II

ISTRUZIONE E FORMAZIONE

ott 1995 - ott 1998 **Dottorato di Ricerca in Ingegneria Elettronica e Informatica, Università di Bologna**

ott 1989 - lug 1995 **Laurea a in Ingegneria Informatica, Università di Bologna**

set 1984 - lug 1989 **Maturità scientifica presso il Liceo Scientifico Statale "A. Righi" di Bologna**

CAPACITÀ E COMPETENZE
PERSONALI

Lingua madre Italiano

Altre lingue	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	C2	C2	C2	C2	C2
Francese	A2	A2	A2	A2	A2
Spagnolo	A1	A1	A1	A1	A1

Livelli: A1 e A2: Utente base – B1 e B2: Utente autonomo – C1 e C2: Utente avanzato
[Quadro Comune Europeo di Riferimento delle Lingue](#)

**CAPACITÀ E COMPETENZE
 RELAZIONALI**

Tutor di quattro dottorandi nel campo dell'informatica

Tutor di numerose tesi di laurea nel campo dell'informatica

**CAPACITÀ E COMPETENZE
 ORGANIZZATIVE**

nov 2015 - oggi **Coordinatore del Corso di Laurea Triennale in Informatica, Classe L 31, dell'Università di Ferrara**

ott 2015 - oggi **Direttore dell'unità di Ferrara del CINI, il Consorzio Interuniversitario Nazionale per l'Informatica**

feb 2014 - oggi **Direttore dell'unità di Ferrara del laboratorio CINI su Big Data**

**CAPACITÀ E COMPETENZE
 TECNICHE**

Ricerca **Attività di ricerca nel campo del Machine Learning e Artificial Intelligence**

Autore di più di 100 pubblicazioni, si veda l'allegato 1

Competenze digitali
AUTOVALUTAZIONE

Elaborazione delle informazioni	Comunicazione	Creazione di contenuti	Sicurezza	Risoluzione di problemi
Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato

[Competenze digitali - Scheda per l'autovalutazione](#)

Sistemi Operativi **Windows, Windows Server, Unix/Linux, MacOS**

Database **MySql, Access ,Oracle, Sql Server, DB2**

Linguaggi di Programmazione **C, C++, Shell, Java, Javascript, Sql, Html, lex, Prolog, Matlab**

Ambienti di sviluppo **NetBeans, Eclipse, Visual Studio**

PATENTE O PATENTI

Patente A e B

ALLEGATI

Allegato 1 **Elenco delle pubblicazioni**

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 - Codice in materia di protezione dei dati personali

Data 20/01/2019

Allegato 1: Elenco delle pubblicazioni

Fabrizio Riguzzi

20 gennaio 2020

Nel seguito sono riportate le pubblicazioni divise in

- Libri
- Riviste internazionali
- Capitoli di libri
- Riviste internazionali su invito
- Tesi di dottorato
- Atti di congressi internazionali
- Recensioni
- Pubblicazioni come editore
- Riviste Nazionali
- Atti di congressi nazionali
- Atti di workshop internazionali con revisione
- Atti di workshop nazionali con revisione
- Rapporti tecnici

Libri

- [LI2] Fabrizio Riguzzi. *Foundations of Probabilistic Logic Programming*. River Publishers, Gistrup, Denmark, 2018.
- [LI1] Fabrizio Riguzzi, Arianna Fabbri, Elena Zuffi. *Sistemi informativi*. Collana Progetto Leonardo. Esculapio, Bologna, Italy, November 2011.

Riviste internazionali

- [RI43] Damiano Azzolini, Fabrizio Riguzzi, Evelina Lamma. Studying transaction fees in the bitcoin blockchain with probabilistic logic programming. *Information*, 10(11):335, MDPI, Basel, Switzerland, 2019. doi:10.3390/info10110335.
- [RI42] Arnaud Nguembang Fadja Fabrizio Riguzzi. Lifted discriminative learning of probabilistic logic programs. *Machine Learning*, 108(7):1111–1135, Springer, Berlin, Germany, 2019. doi:10.1007/s10994-018-5750-0.
- [RI41] Jan Wielemaker, Fabrizio Riguzzi, Bob Kowalski, Torbjörn Lager, Fariba Sadri, Miguel Calejo. Using SWISH to realise interactive web based tutorials for logic based languages. *Theory and Practice of Logic Programming*, 19(2):229–261, Cambridge University Press, Cambridge, UK, 2019. doi:10.1017/S1471068418000522.
- [RI40] Riccardo Zese, Giuseppe Cota, Evelina Lamma, Elena Bellodi, Fabrizio Riguzzi. Probabilistic DL reasoning with pinpointing formulas: A prolog-based approach. *Theory and Practice of Logic Programming*, 19(3):449–476, Cambridge University Press, Cambridge, UK, 2019. doi:10.1017/S1471068418000480.
- [RI39] Riccardo Zese, Elena Bellodi, Fabrizio Riguzzi, Giuseppe Cota, Evelina Lamma. Tableau reasoning for description logics and its extension to probabilities. *Annals of Mathematics and Artificial Intelligence*, 82(1):101–130, Springer, Berlin, Germany, March 2018. doi:10.1007/s10472-016-9529-3.
- [RI38] Marco Gavanelli, Evelina Lamma, Fabrizio Riguzzi, Elena Bellodi, Riccardo Zese, Giuseppe Cota. Reasoning on datalog+- ontologies with abductive logic programming. *Fundamenta Informaticae*, 159:65–93, IOS Press, Amsterdam, Netherlands, 2018. doi:10.3233/FI-2018-1658.
- [RI37] Fabrizio Riguzzi, Giuseppe Cota, Elena Bellodi, Riccardo Zese. Causal inference in cplint. *International Journal of Approximate Reasoning*, 91(Supplement C):216–232, Elsevier, Amsterdam, Netherlands, December 2017. doi:10.1016/j.ijar.2017.09.007.
- [RI36] Marco Alberti, Elena Bellodi, Giuseppe Cota, Fabrizio Riguzzi, Riccardo Zese. cplint on SWISH: Probabilistic logical inference with a web browser. *Intelligenza Artificiale*, 11(1):47–64, IOS Press, Amsterdam, Netherlands, 2017. doi:10.3233/IA-170106.
- [RI35] Fabrizio Riguzzi, Elena Bellodi, Riccardo Zese, Giuseppe Cota, Evelina Lamma. A survey of lifted inference approaches for probabilistic logic programming under the distribution semantics. *International Journal of Approximate Reasoning*, 80(Supplement C):313–333, Elsevier, Amsterdam, Netherlands, January 2017. doi:10.1016/j.ijar.2016.10.002.
- [RI34] Elena Bellodi, Evelina Lamma, Fabrizio Riguzzi, Riccardo Zese, Giuseppe Cota. A web system for reasoning with probabilistic OWL. *Software: Practice and Experience*, 47(1):125–142, Wiley, Hoboken, New Jersey, USA, January 2017. doi:10.1002/spe.2410.

- [RI33] Fabrizio Riguzzi. The distribution semantics for normal programs with function symbols. *International Journal of Approximate Reasoning*, 77(Supplement C):1 – 19, Elsevier, Amsterdam, Netherlands, October 2016. doi:10.1016/j.ijar.2016.05.005.
- [RI32] Elena Bellodi, Fabrizio Riguzzi, Evelina Lamma. Statistical relational learning for workflow mining. *Intelligent Data Analysis*, 20(3):515–541, IOS Press, Amsterdam, Netherlands, April 2016. doi:10.3233/IDA-160818.
- [RI31] Fabrizio Riguzzi, Elena Bellodi, Evelina Lamma, Riccardo Zese, Giuseppe Co-ta. Probabilistic logic programming on the web. *Software: Practice and Experience*, 46(10):1381–1396, Wiley, Hoboken, New Jersey, USA, October 2016. doi:10.1002/spe.2386.
- [RI30] Nicola Di Mauro, Elena Bellodi, Fabrizio Riguzzi. Bandit-based Monte-Carlo structure learning of probabilistic logic programs. *Machine Learning*, 100(1):127–156, Springer International Publishing, Berlin, Germany, July 2015. doi:10.1007/s10994-015-5510-3.
- [RI29] Fabrizio Riguzzi, Elena Bellodi, Evelina Lamma, Riccardo Zese. Probabilistic description logics under the distribution semantics. *Semantic Web - Interoperability, Usability, Applicability*, 6(5):447–501, Amsterdam, Netherlands, 2015. doi:10.3233/SW-140154.
- [RI28] Elena Bellodi Fabrizio Riguzzi. Structure learning of probabilistic logic programs by searching the clause space. *Theory and Practice of Logic Programming*, 15(2):169–212, Cambridge University Press, Cambridge, UK, 2015. doi:10.1017/S1471068413000689.
- [RI27] Fabrizio Riguzzi Terrance Swift. Terminating evaluation of logic programs with finite three-valued models. *ACM Transactions on Computational Logic*, 15(4):32:1–32:38, ACM, New York, NY, USA, September 2014. doi:10.1145/2629337.
- [RI26] Elena Bellodi, Evelina Lamma, Fabrizio Riguzzi, Vitor Santos Costa, Riccardo Zese. Lifted variable elimination for probabilistic logic programming. *Theory and Practice of Logic Programming*, 14(Special issue 4-5 - ICLP 2014):681–695, Cambridge University Press, Cambridge, UK, 2014. doi:10.1017/S1471068414000283.
- [RI25] Fabrizio Riguzzi, Elena Bellodi, Riccardo Zese. A history of probabilistic inductive logic programming. *Frontiers in Robotics and AI*, 1(6):1–5, Frontiers Media SA, Lausanne, Switzerland, 2014. doi:10.3389/frobt.2014.00006.
- [RI24] Fabrizio Riguzzi. Speeding up inference for probabilistic logic programs. *The Computer Journal*, 57(3):347–363, Oxford University Press, Oxford, UK, 2014. doi:10.1093/comjnl/bxt096.
- [RI23] Fabrizio Riguzzi. MCINTYRE: A Monte Carlo system for probabilistic logic programming. *Fundamenta Informaticae*, 124(4):521–541, IOS Press, Amsterdam, Netherlands, 2013. doi:10.3233/FI-2013-847.

- [RI22] Nicola Di Mauro, Paolo Frasconi, Fabrizio Angiulli, Davide Bacciu, Marco de Gemmis, Floriana Esposito, Nicola Fanizzi, Stefano Ferilli, Marco Gori, Francesca A. Lisi, Pasquale Lops, Donato Malerba, Alessio Micheli, Marcello Pelillo, Francesco Ricci, Fabrizio Riguzzi, Lorenza Saitta, Giovanni Semeraro. Italian machine learning and data mining research: The last years. *Intelligenza Artificiale*, 7(2):77–89, IOS Press, Amsterdam, Netherlands, 2013. doi:10.3233/IA-130050.
- [RI21] Fabrizio Riguzzi Terrance Swift. Well-definedness and efficient inference for probabilistic logic programming under the distribution semantics. *Theory and Practice of Logic Programming*, 13(Special Issue 02 - 25th Annual GULP Conference):279–302, Cambridge University Press, Cambridge, UK, March 2013. doi:10.1017/S1471068411000664.
- [RI20] Elena Bellodi Fabrizio Riguzzi. Expectation Maximization over binary decision diagrams for probabilistic logic programs. *Intelligent Data Analysis*, 17(2):343–363, IOS Press, Amsterdam, Netherlands, 2013. doi:10.3233/IDA-130582.
- [RI19] Elena Bellodi Fabrizio Riguzzi. Experimentation of an expectation maximization algorithm for probabilistic logic programs. *Intelligenza Artificiale*, 8(1):3–18, IOS Press, Amsterdam, Netherlands, 2012. doi:10.3233/IA-2012-0027.
- [RI18] Fabrizio Riguzzi Nicola Di Mauro. Applying the information bottleneck to statistical relational learning. *Machine Learning*, 86(1):89–114, Springer, Heidelberg, Germany, 2012. doi:10.1007/s10994-011-5247-6.
- [RI17] Marco Alberti, Marco Gavanelli, Evelina Lamma, Fabrizio Riguzzi, Sergio Storari. Learning specifications of interaction protocols and business processes and proving their properties. *Intelligenza artificiale*, 5(1):71–75, IOS Press, Amsterdam, Netherlands, February 2011. doi:10.3233/IA-2011-0006.
- [RI16] Fabrizio Riguzzi Terrance Swift. The PITA system: Tabling and answer subsumption for reasoning under uncertainty. *Theory and Practice of Logic Programming, 27th International Conference on Logic Programming (ICLP'11) Special Issue, Lexington, Kentucky 6-10 July 2011*, 11(4–5):433–449, Cambridge University Press, Cambridge, UK, 2011. doi:10.1017/S147106841100010X.
- [RI15] Fabrizio Riguzzi. SLGAD resolution for inference on Logic Programs with Annotated Disjunctions. *Fundamenta Informaticae*, 102(3-4):429–466, IOS Press, Amsterdam, Netherlands, October 2010. doi:10.3233/FI-2010-392.
- [RI14] Marco Gavanelli, Fabrizio Riguzzi, Michela Milano, Paolo Cagnoli. Logic-Based Decision Support for Strategic Environmental Assessment. *Theory and Practice of Logic Programming, 26th Int'l. Conference on Logic Programming (ICLP'10) Special Issue*, 10(4-6):643–658, Cambridge University Press, Cambridge, UK, July 2010. doi:10.1017/S1471068410000335.
- [RI13] Fabrizio Riguzzi. Extended semantics and inference for the Independent Choice Logic. *Logic Journal of the IGPL*, 17(6):589–629, Oxford University Press, Oxford, UK, 2009. doi:10.1093/jigpal/jzp025.

- [RI12] Sergio Storari, Fabrizio Riguzzi, Evelina Lamma. Exploiting association and correlation rules parameters for learning bayesian networks. *Intelligent Data Analysis*, 13:689–701, IOS Press, Amsterdam, Netherlands, 2009. doi:10.3233/IDA-2009-0388.
- [RI11] Federico Chesani, Evelina Lamma, Paola Mello, Marco Montali, Fabrizio Riguzzi, Sergio Storari. Exploiting inductive logic programming techniques for declarative process mining. *LNCS Transactions on Petri Nets and Other Models of Concurrency, ToPNoC II*, 5460:278–295, Springer, Heidelberg, Germany, 2009. doi:10.1007/978-3-642-00899-3_16.
- [RI10] Fabrizio Riguzzi. ALLPAD: Approximate learning of logic programs with annotated disjunctions. *Machine Learning*, 70(2-3):207–223, Springer, Heidelberg, Germany, March 2008. doi:10.1007/s10994-007-5032-8.
- [RI9] Evelina Lamma, Paola Mello, Annamaria Nanetti, Fabrizio Riguzzi, Sergio Storari, Gianfranco Valastro. Artificial intelligence techniques for monitoring dangerous infections. *IEEE Transaction on Information Technology in Biomedicine*, 10(1):143–155, IEEE Computer Society Press, Washington, DC, USA, January 2006. doi:10.1109/TITB.2005.855537.
- [RI8] Evelina Lamma, Paola Mello, Fabrizio Riguzzi. A system for measuring function points from an ER-DFD specification. *The Computer Journal*, 47(3):358–372, Oxford University Press, Oxford, UK, May 2004. doi:10.1093/comjnl/47.3.358.
- [RI7] Evelina Lamma, Fabrizio Riguzzi, Luís Moniz Pereira. Belief revision via Lamarckian evolution. *New Generation Computing*, 21(3):247–275, Ohmsha, Ltd. and Springer, Tokyo, Japan, August 2003. doi:10.1007/BF03037475.
- [RI6] Evelina Lamma, Fabrizio Riguzzi, Sergio Storari, Paola Mello, Annamaria Nanetti. Discovering validation rules from micro-biological data. *New Generation Computing*, 21(2):123–134, Ohmsha, Ltd. and Springer, Tokyo, Japan, February 2003. doi:10.1007/BF03037630.
- [RI5] Evelina Lamma, Leonardo Maestrami, Paola Mello, Fabrizio Riguzzi, Sergio Storari. Rule-based programming for building expert systems: a comparison in the microbiological data validation and surveillance domain. *Electronic Notes in Theoretical Computer Science*, 59, Elsevier Science Publishers, Amsterdam, Netherlands, September 2001. doi:10.1016/S1571-0661(04)00299-3.
- [RI4] Rita Cucchiara, Paola Mello, Massimo Piccardi, Fabrizio Riguzzi. An application of machine learning and statistics to defect detection. *Intelligent Data Analysis*, 5(2):151–164, IOS Press, Amsterdam, Netherlands, March/April 2001.
- [RI3] Antonis C. Kakas Fabrizio Riguzzi. Abductive concept learning. *New Generation Computing*, 18(3):243–294, Ohmsha, Ltd. and Springer, Tokyo, Japan, May 2000. doi:10.1007/BF03037531.

- [RI2] Evelina Lamma, Fabrizio Riguzzi, Luís Moniz Pereira. Strategies in combined learning via logic programs. *Machine Learning*, 38(1/2):63–87, Springer Netherlands, Dordrecht, Netherlands, January/February 2000. doi:10.1023/A:1007681906490.
- [RI1] Evelina Lamma, Paola Mello, Michela Milano, Fabrizio Riguzzi. Integrating induction and abduction in logic programming. *Information Sciences*, 116(1):25–54, Elsevier Science, Amsterdam, Netherlands, May 1999. doi:10.1016/S0020-0255(98)10092-0.

Capitoli di libri

- [CL8] Fabrizio Riguzzi Theresa Swift. A survey of probabilistic logic programming. In Michael Kifer Yanhong A. Liu, editors, *Declarative Logic Programming: Theory, Systems, and Applications*, pages 185–228. Association for Computing Machinery and Morgan & Claypool, New York, NY, USA, 2018. doi:10.1145/3191315.3191319.
- [CL7] Arnaud Nguembang Fadja Fabrizio Riguzzi. Probabilistic logic programming in action. In Andreas Holzinger, Randy Goebel, Massimo Ferri, Vasile Palade, editors, *Towards Integrative Machine Learning and Knowledge Extraction: BIRS Workshop, Banff, AB, Canada, July 24-26, 2015, Revised Selected Papers*, volume 10344 of *Lecture Notes in Computer Science*, pages 89–116. Springer, Heidelberg, Germany, 2017. doi:10.1007/978-3-319-69775-8_5.
- [CL6] Fabrizio Riguzzi, Elena Bellodi, Evelina Lamma, Riccardo Zese, Giuseppe Cota. Learning probabilistic description logics. In Fernando Bobillo, Rommel N. Carvalho, Paulo C.G. Costa, Claudia d’Amato, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Matthias Nickles, Michael Pool, editors, *Uncertainty Reasoning for the Semantic Web III*, volume 8816 of *Lecture Notes in Computer Science*, pages 63–78. Springer International Publishing, 2014. doi:10.1007/978-3-319-13413-0_4.
- [CL5] Riccardo Zese, Elena Bellodi, Evelina Lamma, Fabrizio Riguzzi, Fabiano Aguiari. Semantics and inference for probabilistic description logics. In Fernando Bobillo, Rommel N. Carvalho, Paulo C.G. Costa, Claudia d’Amato, Nicola Fanizzi, Kathryn B. Laskey, Kenneth J. Laskey, Thomas Lukasiewicz, Matthias Nickles, Michael Pool, editors, *Uncertainty Reasoning for the Semantic Web III*, volume 8816 of *Lecture Notes in Computer Science*, pages 79–99. Springer International Publishing, 2014. doi:10.1007/978-3-319-13413-0_5.
- [CL4] Marco Gavanelli, Fabrizio Riguzzi, Michela Milano, Paolo Cagnoli. Constraint and optimization techniques for supporting policy making. In Ting Yu, Nitesh Chawla, Simeon Simoff, editors, *Computational Intelligent Data Analysis for Sustainable Development*, Data Mining and Knowledge Discovery Series, chapter 12, pages 361–382. Chapman & Hall/CRC, Abingdon, UK, 2013. doi:10.1201/b14799-18.
- [CL3] Massimiliano Cattafi, Evelina Lamma, Fabrizio Riguzzi, Sergio Storari. Incremental declarative process mining. In Ngoc Thanh Nguyen Edward Szczerbicki, editors,

Smart Information and Knowledge Management: Advances, Challenges, and Critical Issues, volume 260 of *Studies in Computational Intelligence*, pages 103–127. Springer, Heidelberg, Germany, 2010. doi:10.1007/978-3-642-04584-4_5.

- [CL2] Evelina Lamma, Fabrizio Riguzzi, Sergio Storari. Improving the k2 algorithm using association rule parameters. In Bernadette Bouchon-Meunier, Giulianella Coletti, Ronald Yager, editors, *Modern Information Processing: From Theory to Applications*, pages 207–217. Elsevier, Amsterdam, Netherlands, 2006. doi:10.1016/B978-044452075-3/50018-2.
- [CL1] Floriana Esposito, Stefano Ferilli, Evelina Lamma, Paola Mello, Michela Milano, Fabrizio Riguzzi, Giovanni Semeraro. Cooperation of abduction and induction in logic programming. In Peter A. Flach Antonis C. Kakas, editors, *Abductive and Inductive Reasoning: Essays on their Relation and Integration*, Applied Logic Series, pages 233–252. Kluwer Academic Publishers, Dordrecht, Netherlands, April 2000. doi:10.1007/978-94-017-0606-3.

Riviste internazionali su invito

- [RIN2] Fabrizio Riguzzi Giuseppe Cota. Probabilistic logic programming tutorial. *The Association for Logic Programming Newsletter*, 29(1), The Association for Logic Programming, London, UK, March/April 2016.
- [RIN1] José Júlio Alferes, Pierangelo Dell’Acqua, Evelina Lamma, João Alexandre Leite, Luís Moniz Pereira, Fabrizio Riguzzi. A logic based approach to multi-agent systems. *The Association for Logic Programming Newsletter*, 14(3), The Association for Logic Programming, London, UK, August 2001.

Tesi di dottorato

- [TD1] Fabrizio Riguzzi. *Extensions of Logic Programming as a Representation Language for Machine Learning*. PhD thesis, DEIS, Università of Bologna, Bologna, Italy, November 1998. Technical Report DEIS-LIA-98-005, LIA Series n.33.

Atti di congressi internazionali

- [CI48] Fabrizio Riguzzi. Quantum weighted model counting. In Giuseppe De Giacomo, editor, *ECAI 2020*, 2020.
- [CI47] Damiano Azzolini, Fabrizio Riguzzi, Evelina Lamma, Franco Masotti. A comparison of MCMC sampling for probabilistic logic programming. In Mario Alviano, Gianluigi Greco, Francesco Scarcello, editors, *Proceedings of the 18th Conference of the Italian Association for Artificial Intelligence (AI*IA2019), Rende, Italy 19-22 November 2019*, volume 11946 of *Lecture Notes in Computer Science*, pages 18–29, Springer, Heidelberg, Germany, 2019. doi:10.1007/978-3-030-35166-3_2.

- [CI46] Arnaud Nguembang Fadja, Fabrizio Riguzzi, Evelina Lamma. Expectation maximization in deep probabilistic logic programming. In Chiara Ghidini, Bernardo Magnini, Andrea Passerini, editors, *Proceedings of the 17th Conference of the Italian Association for Artificial Intelligence (AI*IA2018), Trento, Italy, 20-23 November, 2018*, volume 11298 of *Lecture Notes in Computer Science*, pages 293–306, Springer, Heidelberg, Germany, 2018. doi:10.1007/978-3-030-03840-3_22.
- [CI45] Giuseppe Cota, Fabrizio Riguzzi, Riccardo Zese, Elena Bellodi, Evelina Lamma. A modular inference system for probabilistic description logics. In Davide Ciucci, Gabriella Pasi, Barbara Vantaggi, editors, *Scalable Uncertainty Management 12th International Conference, SUM 2018, Milan, Italy, October 3-5, 2018, Proceedings*, volume 11142 of *Lecture Notes in Computer Science*, pages 78–92, Springer, Heidelberg, Germany, 2018. doi:10.1007/978-3-030-00461-3_6.
- [CI44] Marco Alberti, Marco Gavanelli, Evelina Lamma, Fabrizio Riguzzi, Zese Riccardo. Dischargeable obligations in abductive logic programming. In Stefania Costantini, Enrico Franconi, William Van Woensel, Roman Kontchakov, Fariba Sadri, Dumitru Roman, editors, *Rules and Reasoning: International Joint Conference, RuleML+RR 2017, London, UK, July 12–15, 2017, Proceedings*, volume 10364 of *Lecture Notes in Computer Science*, pages 7–21, Springer International Publishing, Cham, 2017. doi:10.1007/978-3-319-61252-2_2.
- [CI43] Marco Gavanelli, Evelina Lamma, Fabrizio Riguzzi, Elena Bellodi, Zese Riccardo, Giuseppe Cota. Abductive logic programming for normative reasoning and ontologies. In Mihoko Otake, Setsuya Kurahashi, Yuiko Ota, Ken Satoh, Daisuke Bekki, editors, *New Frontiers in Artificial Intelligence: JSAI-isAI 2015 Workshops, LENLS, JURISIN, AAA, HAT-MASH, TSDAA, ASD-HR, and SKL, Kanagawa, Japan, November 16-18, 2015, Revised Selected Papers*, volume 10091 of *Lecture Notes in Computer Science*, pages 187–203, Springer International Publishing, Cham, 2017. doi:10.1007/978-3-319-50953-2_14.
- [CI42] Fabrizio Riguzzi, Riccardo Zese, Giuseppe Cota. Probabilistic inductive logic programming on the web. In *20th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2016; Bologna; Italy; 19 November 2016 through 23 November 2016*, volume 10180 of *Lecture Notes in Computer Science*, pages 172–175. Springer, Cham, 2017.
- [CI41] Marco Alberti, Giuseppe Cota, Fabrizio Riguzzi, Riccardo Zese. Probabilistic logical inference on the web. In Giovanni Adorni, Stefano Cagnoni, Marco Gori, Marco Maratea, editors, *Proceedings of the 15th Conference of the Italian Association for Artificial Intelligence (AI*IA2016), Genova, Italy, 28 November - 1 December 2016*, volume 10037 of *Lecture Notes in Computer Science*, pages 351–363, Springer International Publishing, Heidelberg, Germany, 2016. doi:10.1007/978-3-319-49130-1_26.
- [CI40] Marco Alberti, Evelina Lamma, Fabrizio Riguzzi, Riccardo Zese. Probabilistic hybrid knowledge bases under the distribution semantics. In Giovanni Adorni, Stefano Cagnoni, Marco Gori, Marco Maratea, editors, *Proceedings of the 15th Conference*

- of the Italian Association for Artificial Intelligence (AI*IA2016), Genova, Italy, 28 November - 1 December 2016, volume 10037 of *Lecture Notes in Computer Science*, pages 364–376, Springer International Publishing, Heidelberg, Germany, 2016. doi:10.1007/978-3-319-49130-1_27.
- [CI39] Fabrizio Riguzzi, Elena Bellodi, Riccardo Zese, Giuseppe Cota, Evelina Lamma. Scaling structure learning of probabilistic logic programs by mapreduce. In Maria Fox Gal Kaminka, editors, *22nd European Conference on Artificial Intelligence ECAI 2016*, volume 285 of *Frontiers in Artificial Intelligence and Applications*, pages 1602–1603, IOS Press, Amsterdam, Netherlands, 2016. doi:10.3233/978-1-61499-672-9-1602.
- [CI38] Giuseppe Cota, Riccardo Zese, Elena Bellodi, Fabrizio Riguzzi, Evelina Lamma. Distributed parameter learning for probabilistic ontologies. In Katsumi Inoue, Hayato Ohwada, Akihiro Yamamoto, editors, *Inductive Logic Programming: 25th International Conference, ILP 2015, Kyoto, Japan, August 20-22, 2015, Revised Selected Papers*, volume 9575 of *Lecture Notes in Computer Science*, pages 30–45, Springer International Publishing, Heidelberg, Germany, 2016. doi:10.1007/978-3-319-40566-7_3.
- [CI37] Marco Gavaneli, Evelina Lamma, Fabrizio Riguzzi, Elena Bellodi, Riccardo Zese, Giuseppe Cota. An abductive framework for Datalog+- ontologies. In Marina De Vos, Thomas Eiter, Yuliya Lierler, Francesca Toni, editors, *Technical Communications of the 31st Int'l. Conference on Logic Programming (ICLP 2015)*, number 1433 in CEUR Workshop Proceedings, Sun SITE Central Europe, Aachen, Germany, 2015.
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