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# Logics in Artificial Intelligence

17th European Conference, JELIA 2021  
Virtual Event, May 17–20, 2021  
Proceedings

*Editors*

Wolfgang Faber   
University of Klagenfurt  
Klagenfurt, Austria

Martin Gebser   
University of Klagenfurt  
Klagenfurt, Austria

Gerhard Friedrich   
University of Klagenfurt  
Klagenfurt, Austria

Michael Morak   
University of Klagenfurt  
Klagenfurt, Austria

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# Preface

This volume contains the proceedings of the 17th European Conference on Logics in Artificial Intelligence, which was to take place at the University of Klagenfurt, Austria, but due to the COVID-19 pandemic was held as an online event during May 17–20, 2021.

The European Conference on Logics in Artificial Intelligence (or Journées Européennes sur la Logique en Intelligence Artificielle—JELIA) began back in 1988, as a workshop, in response to the need for a European forum for the discussion of emerging work in this field. Since then, JELIA has been organized biennially, with proceedings published in the Springer series *Lecture Notes in Artificial Intelligence*. Previous meetings took place in Roscoff, France (1988), Amsterdam, The Netherlands (1990), Berlin, Germany (1992), York, UK (1994), Évora, Portugal (1996), Dagstuhl, Germany (1998), Málaga, Spain (2000), Cosenza, Italy (2002), Lisbon, Portugal (2004), Liverpool, UK (2006), Dresden, Germany (2008), Helsinki, Finland (2010), Toulouse, France (2012), Madeira, Portugal (2014), Larnaca, Cyprus (2016), and Rende, Italy (2019).

The aim of JELIA is to bring together active researchers interested in all aspects concerning the use of logics in artificial intelligence to discuss current research, results, problems, and applications of both theoretical and practical nature. JELIA strives to foster links and facilitate cross-fertilization of ideas among researchers from various disciplines, among researchers from academia and industry, and between theoreticians and practitioners. The scientific community has been increasingly showing interest in JELIA, which during the years featured the growing participation of researchers from outside Europe and a very high overall technical quality of contributions; hence, the conference turned into a major biennial forum and a reference for the discussion of approaches, especially logic-based, to artificial intelligence.

JELIA 2021 received 68 submissions in two different formats (long and short papers). Throughout the reviewing process, at least three Program Committee members took care of each work. Out of the 68 submissions, 27 long and 3 short papers were accepted, amounting to an acceptance rate of 44%, which is comparable to previous JELIA conferences. Of the accepted papers, 13 were declared to be student papers (21 submitted), 5 to be system papers (6 submitted), and 1 to be an application paper (4 submitted) by the authors upon submission.

We would like to thank the members of the Program Committee and the additional reviewers for their efforts to produce fair and thorough evaluations of the submitted papers, the local organization committee, and of course the authors of the scientific papers, including those not accepted for publication. The quality of the contributions was very high, which is the essential ingredient for a successful scientific conference.

The conference program included invited talks by Thomas Eiter, Esra Erdem, and Alessandra Russo, and had prizes for the Best Paper and Best Student Paper, each received a prize money of EUR 500, kindly offered by Springer. We are grateful to all

sponsors for their generous support: Förderverein Technische Fakultät, Springer, and of course the University of Klagenfurt. Last, but not least, we thank the people of EasyChair for providing resources and a marvellous conference management system.

March 2021

Wolfgang Faber  
Gerhard Friedrich  
Martin Gebser  
Michael Morak

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# Contents

## Argumentation

Graph-Classes of Argumentation Frameworks with Collective Attacks . . . . .	3
<i>Wolfgang Dvořák, Matthias König, and Stefan Woltran</i>	
Introducing a Tool for Concurrent Argumentation . . . . .	18
<i>Stefano Bistarelli and Carlo Taticchi</i>	
Probabilistic Argumentation: An Approach Based on Conditional Probability –A Preliminary Report–. . . . .	25
<i>Pilar Dellunde, Lluís Godo, and Amanda Vidal</i>	

## Belief Revision

Conditional Descriptor Revision and Its Modelling by a CSP . . . . .	35
<i>Jonas Haldimann, Kai Sauerwald, Martin von Berg, Gabriele Kern-Isberner, and Christoph Beierle</i>	
Trust Is All You Need: From Belief Revision to Information Revision . . . . .	50
<i>Ammar Yasser and Haythem O. Ismail</i>	

## Reasoning about Actions, Causality, and Change

Computing Defeasible Meta-logic . . . . .	69
<i>Francesco Olivieri, Guido Governatori, Matteo Cristani, and Abdul Sattar</i>	
Syntax Splitting for Iterated Contractions, Ignorations, and Revisions on Ranking Functions Using Selection Strategies . . . . .	85
<i>Jonas Haldimann, Christoph Beierle, and Gabriele Kern-Isberner</i>	
An Epistemic Logic for Multi-agent Systems with Budget and Costs. . . . .	101
<i>Stefania Costantini, Andrea Formisano, and Valentina Pitoni</i>	
Epistemic Reasoning About Rationality and Bids in Auctions. . . . .	116
<i>MunIQUE Mittelman, Andreas Herzig, and Laurent Perrussel</i>	

## Constraint Satisfaction

Tractable Combinations of Theories via Sampling . . . . .	133
<i>Manuel Bodirsky and Johannes Greiner</i>	

Analyzing Unit Read-Once Refutations in Difference Constraint Systems. . . .	147
<i>K. Subramani and Piotr Wojciechowski</i>	
Residuation for Soft Constraints: Lexicographic Orders and Approximation Techniques. . . . .	162
<i>Fabio Gadducci and Francesco Santini</i>	
<b>Description Logics and Ontological Reasoning</b>	
Exploiting Forwardness: Satisfiability and Query-Entailment in Forward Guarded Fragment. . . . .	179
<i>Bartosz Bednarczyk</i>	
An Algebraic View on p-Admissible Concrete Domains for Lightweight Description Logics . . . . .	194
<i>Franz Baader and Jakub Rydval</i>	
ReAD: AD-Based Modular Ontology Classification. . . . .	210
<i>Haoruo Zhao, Bijan Parsia, and Uli Sattler</i>	
Weighted Defeasible Knowledge Bases and a Multipreference Semantics for a Deep Neural Network Model . . . . .	225
<i>Laura Giordano and Daniele Theseider Dupré</i>	
<b>Non-classical Logics</b>	
A Computationally Grounded Logic of Graded Belief . . . . .	245
<i>Emiliano Lorini and François Schwarzentruber</i>	
Tractability Frontiers in Probabilistic Team Semantics and Existential Second-Order Logic over the Reals . . . . .	262
<i>Miika Hannula and Jonni Virtema</i>	
An Epistemic Probabilistic Logic with Conditional Probabilities . . . . .	279
<i>Šejla Dautović, Dragan Doder, and Zoran Ognjanović</i>	
<b>Logic Programming and Answer Set Programming</b>	
On Syntactic Forgetting Under Uniform Equivalence. . . . .	297
<i>Ricardo Gonçalves, Tomi Janhunen, Matthias Knorr, and João Leite</i>	
Solving a Multi-resource Partial-Ordering Flexible Variant of the Job-Shop Scheduling Problem with Hybrid ASP. . . . .	313
<i>Giulia Francescutto, Konstantin Schekotihin, and Mohammed M. S. El-Kholany</i>	

Tractable Reasoning Using Logic Programs with Intensional Concepts . . . . .	329
<i>Jesse Heyninck, Ricardo Gonçalves, Matthias Knorr, and João Leite</i>	
Estimating Grounding Sizes of Logic Programs Under Answer Set Semantics . . . . .	346
<i>Nicholas Hippen and Yuliya Lierler</i>	
Testing in ASP: Revisited Language and Programming Environment. . . . .	362
<i>Giovanni Amendola, Tobias Berei, and Francesco Ricca</i>	
An Abstract View on Optimizations in SAT and ASP . . . . .	377
<i>Yuliya Lierler</i>	
Model Reconciliation in Logic Programs . . . . .	393
<i>Tran Cao Son, Van Nguyen, Stylianos Loukas Vasileiou, and William Yeoh</i>	
Lazy Stream Manipulation in Prolog via Backtracking: The Case of 2P-Kr . . . . .	407
<i>Giovanni Ciatto, Roberta Calegari, and Andrea Omicini</i>	
Transforming Gringo Rules into Formulas in a Natural Way . . . . .	421
<i>Vladimir Lifschitz</i>	
DualGrounder: Lazy Instantiation via Clingo Multi-shot Framework . . . . .	435
<i>Yuliya Lierler and Justin Robbins</i>	
A Multi-shot ASP Encoding for the Aircraft Routing and Maintenance Planning Problem . . . . .	442
<i>Pierre Tassel and Mohamed Rbaia</i>	
<b>Author Index</b> . . . . .	459