



Syntax Meets Semantics: Methods, Interactions, and Connections in Substructural logics.

Results

Project Information

SYSMICS

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[Project website](#)

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CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from [OpenAIRE](#).

Deliverables

Documents, reports (13)

[Third workshop report](#) 

Report on the third workshop.

[Technical report 1](#) 

Technical report on WP4

[Technical report 2](#) 

Technical report on WP 5

[Progress Report](#) 

[Technical report 5](#) 

Technical report on WP8

[Technical report 6](#) 

Technical report on WP9

[Fourth workshop report](#) 

Report on the fourth workshop.

[Report on the first workshop.](#) 

[Final conference report](#) 

Final conference report.

[Technical report 3](#) 

Technical report on WP6

[Conference proceedings](#) 

Initial conference proceedings

[Second workshop report](#) 

Report on the second workshop

[Technical report 4](#) 

Technical report on WP7

Publications

[On Kalman's functor for bounded hemi-implicative semilattices and hemi-implicative lattices](#)

Author(s): Ramon Jansana, Hernán Javier San Martín

Published in: Logic Journal of the IGPL, Issue 26/1, 2017, Page(s) 47-82, ISSN 1367-0751

Publisher: Oxford University Press

DOI: 10.1093/jigpal/jzx052

A Real-Valued Modal Logic

Author(s): Diaconescu Denisa, Metcalfe George, Schnüriger Laura

Published in: Logical Methods in Computer Science, Issue 14(1), 2018, ISSN 1860-5974

Publisher: Technischen Universität Braunschweig

[Towards a probability theory for product logic: States, integral representation and reasoning](#)

Author(s): Tommaso Flaminio, Lluís Godo, Sara Ugolini

Published in: International Journal of Approximate Reasoning, Issue 93, 2018, Page(s) 199-218, ISSN 0888-613X

Publisher: Elsevier BV

DOI: 10.1016/j.ijar.2017.11.003

[Cut Elimination, Identity Elimination, and Interpolation in Super-Belnap Logics](#)

Author(s): Adam Přenosil

Published in: Studia Logica, Issue 105/6, 2017, Page(s) 1255-1289, ISSN 0039-3215

Publisher: Kluwer Academic Publishers

DOI: 10.1007/s11225-017-9746-8

[Back-and-forth systems for fuzzy first-order models](#)

Author(s): Pilar Dellunde, Àngel García-Cerdaña, Carles Noguera

Published in: Fuzzy Sets and Systems, 2018, ISSN 0165-0114

Publisher: Elsevier BV

DOI: 10.1016/j.fss.2018.01.016

[A New Hierarchy of Infinitary Logics in Abstract Algebraic Logic](#)

Author(s): Tomáš Lávička, Carles Noguera

Published in: Studia Logica, Issue 105/3, 2017, Page(s) 521-551, ISSN 0039-3215

Publisher: Kluwer Academic Publishers

DOI: 10.1007/s11225-016-9699-3

[Neighborhood semantics for modal many-valued logics](#)

Author(s): Petr Cintula, Carles Noguera
Published in: Fuzzy Sets and Systems, 2017, ISSN 0165-0114
Publisher: Elsevier BV
DOI: 10.1016/j.fss.2017.10.009

[Implicational \(semilinear\) logics III: completeness properties](#)

Author(s): Petr Cintula, Carles Noguera
Published in: Archive for Mathematical Logic, 2017, ISSN 0933-5846
Publisher: Springer Verlag
DOI: 10.1007/s00153-017-0577-0

[On the structure theory of Łukasiewicz near semirings](#)

Author(s): Ivan Chajda, Davide Fazio, Antonio Ledda
Published in: Logic Journal of the IGPL, Issue 26/1, 2017, Page(s) 14-28, ISSN 1367-0751
Publisher: Oxford University Press
DOI: 10.1093/jigpal/jzx044

[Stone-Type Representations and Dualities for Varieties of Bisemilattices](#)

Author(s): Antonio Ledda
Published in: Studia Logica, Issue 106/2, 2018, Page(s) 417-448, ISSN 0039-3215
Publisher: Kluwer Academic Publishers
DOI: 10.1007/s11225-017-9745-9

[On Some Properties of PBZ*-Lattices](#)

Author(s): Roberto Giuntini, Antonio Ledda, Francesco Paoli
Published in: International Journal of Theoretical Physics, Issue 56/12, 2017, Page(s) 3895-3911, ISSN 0020-7748
Publisher: Kluwer Academic/Plenum Publishers
DOI: 10.1007/s10773-017-3374-y

[On Principal Congruences in Distributive Lattices with a Commutative Monoidal Operation and an Implication](#)

Author(s): Ramon Jansana, Hernán Javier San Martín
Published in: Studia Logica, 2018, ISSN 0039-3215
Publisher: Kluwer Academic Publishers
DOI: 10.1007/s11225-018-9796-6

[MacNeille transferability and stable classes of Heyting algebras](#)

Author(s): Guram Bezhanishvili, John Harding, Julia Ilin, Frederik Möllerström Lauridsen
Published in: Algebra universalis, Issue 79/3, 2018, ISSN 0002-5240

Publisher: Birkhauser Verlag
DOI: 10.1007/s00012-018-0534-8

[Hypersequents and Systems of Rules](#) 

Author(s): Agata Ciabattoni, Francesco A. Genco
Published in: ACM Transactions on Computational Logic, Issue 19/2, 2018, Page(s) 1-27, ISSN 1529-3785
Publisher: Association for Computing Machinery, Inc.
DOI: 10.1145/3180075

[Varieties of De Morgan monoids: Minimality and irreducible algebras](#) 

Author(s): T. Moraschini, J.G. Raftery, J.J. Wannenburg
Published in: Journal of Pure and Applied Algebra, 2018, ISSN 0022-4049
Publisher: Elsevier BV
DOI: 10.1016/j.jpaa.2018.09.015

[Expanding \$\text{FL}_{ew}\$ with a Boolean connective](#) 


Author(s): Rodolfo C. Ertola-Biraben, Francesc Esteva, Lluís Godo
Published in: Soft Computing, 2016, ISSN 1432-7643
Publisher: Springer Verlag
DOI: 10.1007/s00500-016-2275-y

[Is multiset consequence trivial?](#) 

Author(s): Petr Cintula, Francesco Paoli
Published in: Synthese, 2016, ISSN 0039-7857
Publisher: D. Reidel Pub. Co.
DOI: 10.1007/s11229-016-1209-7

[Maximality in finite-valued Łukasiewicz logics defined by order filters](#) 

Author(s): Marcelo E Coniglio, Francesc Esteva, Joan Gispert, Lluís Godo
Published in: Journal of Logic and Computation, Issue 29/1, 2018, Page(s) 125-156, ISSN 0955-792X
Publisher: Oxford University Press
DOI: 10.1093/logcom/exy032

[Corrigendum to “Towards a probability theory for product logic: States, integral representation and reasoning” \[Int. J. Approx. Reason. 93 \(2018\) 199–218\]](#) 

Author(s): Tommaso Flaminio, Lluís Godo, Sara Ugolini
Published in: International Journal of Approximate Reasoning, Issue 103, 2018, Page(s) 267-269, ISSN 0888-613X
Publisher: Elsevier BV
DOI: 10.1016/j.ijar.2018.09.010

[VARIETIES OF DE MORGAN MONOIDS: COVERS OF ATOMS](#) 

Author(s): T. MORASCHINI, J. G. RAFTERY, J. J. WANNENBURG

Published in: The Review of Symbolic Logic, 2019, Page(s) 1-37, ISSN 1755-0203

Publisher: Cambridge University Press

DOI: 10.1017/s1755020318000448

[Subframization and stabilization for superintuitionistic logics](#)

Author(s): Guram Bezhanishvili, Nick Bezhanishvili, Julia Ilin

Published in: Journal of Logic and Computation, Issue 29/1, 2019, Page(s) 1-35, ISSN 0955-792X

Publisher: Oxford University Press

DOI: 10.1093/logcom/exy035

[Epimorphisms, Definability and Cardinalities](#)

Author(s): T. Moraschini, J. G. Raftery, J. J. Wannenburg

Published in: Studia Logica, 2019, ISSN 0039-3215

Publisher: Kluwer Academic Publishers

DOI: 10.1007/s11225-019-09846-5

[STABLE MODAL LOGICS](#)

Author(s): GURAM BEZHANISHVILI, NICK BEZHANISHVILI, JULIA ILIN

Published in: The Review of Symbolic Logic, Issue 11/03, 2018, Page(s) 436-469, ISSN 1755-0203

Publisher: Cambridge University Press

DOI: 10.1017/s1755020317000375

[Skolemization and Herbrand theorems for lattice-valued logics](#)

Author(s): Petr Cintula, Denisa Diaconescu, George Metcalfe

Published in: Theoretical Computer Science, 2019, ISSN 0304-3975

Publisher: Elsevier BV

DOI: 10.1016/j.tcs.2019.02.007

[An Abstract Approach to Consequence Relations](#)

Author(s): PETR CINTULA, JOSÉ GIL-FÉREZ, TOMMASO MORASCHINI, FRANCESCO PAOLI

Published in: The Review of Symbolic Logic, 2019, Page(s) 1-40, ISSN 1755-0203

Publisher: Cambridge University Press

DOI: 10.1017/s175502031900008x

[On the existence of free models in fuzzy universal Horn classes](#)

Author(s): Vicent Costa, Pilar Dellunde

Published in: Journal of Applied Logic, 2016, ISSN 1570-8683

Publisher: Elsevier BV

DOI: 10.1016/j.jal.2016.11.002

[Canonical formulas for k-potent commutative, integral, residuated lattices](#) 

Author(s): Nick Bezhanishvili, Nick Galatos, Luca Spada

Published in: Algebra universalis, 2017, ISSN 0002-5240

Publisher: Birkhauser Verlag

DOI: 10.1007/s00012-017-0430-7

Conference proceedings (5)

[Term Models of Horn Clauses over Rational Pavelka Predicate Logic](#) 

Author(s): Vicent Costa, Pilar Dellunde

Published in: 2017 IEEE 47th International Symposium on Multiple-Valued Logic (ISMVL), 2017, Page(s) 112-117, ISBN 978-1-5090-5496-1

Publisher: IEEE

DOI: 10.1109/ismvl.2017.26

[A Logical Framework for Graded Predicates](#) 

Author(s): Petr Cintula, Carles Noguera, Nicholas J. J. Smith

Published in: Lecture Notes in Computer Science, 2017, Page(s) 3-16

Publisher: Springer Berlin Heidelberg

DOI: 10.1007/978-3-662-55665-8_1

[On the relation between modal and multi-modal logics over Łukasiewicz logic](#) 

Author(s): Francesc Esteve, Lluís Godo, Ricardo Oscar Rodríguez

Published in: 2017 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), 2017, Page(s) 1-6, ISBN 978-1-5090-6034-4

Publisher: IEEE

DOI: 10.1109/fuzz-ieee.2017.8015703

[Coherence in Modal Logic](#) 

Author(s): Kowalski, Tomasz; Metcalfe, George

Published in: Advances in Modal Logic, Issue 12, 2018, Page(s) 451-464, ISBN 978-1-84890-255-8

Publisher: College Publications

DOI: 10.7892/boris.119774

[Proof Theory and Ordered Groups](#) 

Author(s): Almudena Colacito, George Metcalfe

Published in: Lecture Notes in Computer Science, Issue 10388, 2017, Page(s) 80-91, ISBN 978-3-662-55385-5

Publisher: Springer Berlin Heidelberg

DOI: 10.1007/978-3-662-55386-2_6

Book chapters (2)

[Possibilistic Semantics for a Modal KD45 Extension of Gödel Fuzzy Logic](#) 

Author(s): Félix Bou, Francesc Esteva, Lluís Godo, Ricardo Oscar Rodriguez

Published in: Information Processing and Management of Uncertainty in Knowledge-Based Systems, 2016, Page(s) 123-135, ISBN 978-3-319-40581-0

Publisher: Springer International Publishing

DOI: 10.1007/978-3-319-40581-0_11

[Fuzzy Positive Primitive Formulas](#) 

Author(s): Pilar Dellunde

Published in: Modeling Decisions for Artificial Intelligence - 15th International Conference, MDAI 2018, Mallorca, Spain, October 15–18, 2018, Proceedings, Issue 11144, 2018, Page(s) 156-168, ISBN 978-3-030-00201-5

Publisher: Springer International Publishing

DOI: 10.1007/978-3-030-00202-2_13

Other Research Products

Other Research Products via OpenAire (1) 



[BOOLEAN-LIKE ALGEBRAS OF FINITE DIMENSION](#) 

Author(s): Salibra A.; Ledda A.; Paoli F.

Published in: arXiv:1806.06537

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