

Curriculum vitae

Carles Noguera

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Born in 1978

Research interests: reasoning with graded notions, mathematical fuzzy logic, (abstract) algebraic logic, model theory, decision theory

Education and qualification:

2020 **Habilitation as full professor**, Catalan Agency for University Quality
2011 **Habilitation as associate professor**, Catalan Agency for University Quality
2007 **Degree in Philosophy**, University of Barcelona
2006 **Ph.D. in Logic and Foundations of Mathematics**, University of Barcelona
2001 **Degree in Mathematics**, University of Barcelona

Employment history:

2013–present Scientist (**senior scientist** since 2018) at the Institute of Information Theory and Automation, Czech Academy of Sciences, Prague
2009–2012 Junior researcher “Juan de la Cierva” at IIIA-CSIC, Barcelona
2007–2009 Postdoctoral researcher “Beatriu de Pinós” at the Department of Mathematics and Computer Science, University of Siena
Supervisor: Dr. Franco Montagna
2006–2007 Lecturer at the Department of Computer Science and Industrial Engineering, University of Lleida
2002–2006 Ph.D. student at the Artificial Intelligence Research Institute (IIIA-CSIC), Barcelona
Advisors: Dr. Francesc Esteva and Dr. Joan Gispert

Basic scientometric data:

- 38 papers published in peer-reviewed journals, 18 papers in peer-reviewed conference proceedings, 3 monographs, and 5 chapters in books.
- Citations: 533 (Web of Science), 627 (Scopus), 1605 (Google Scholar).
- H-index: 15 (Web of Science), 16 (Scopus), 22 (Google Scholar).
- 10 invited talks at international conferences, 50 contributed talks (plus 46 additional presented by co-authors) at international conferences, 64 talks at research seminars.

Language skills:¹

- C2 level: Catalan, English, Italian, Spanish.
- B1 level: French.
- A2 level: Czech.

¹According to the Common European Framework of Reference for Languages CEFR.

Awards:

Featured paper at TACL09 conference (July 2009); Distinguished paper at 5th EUSFLAT conference (September 2007); Special prize for the Philosophy degree (June 2007); Prize Évariste Galois of the Catalan Mathematical Society (April 2005).

FUNDING ID:**Current projects:**

1. Local coordinator of *Modalities in Substructural Logics: Theory, Methods and Applications MOSAIC*, European project H2020-MSCA-RISE-2020, 2021–2024. Budget for my team: 36.800 EUR.
2. Principal investigator of *Reasoning with graded properties*, Czech Science Foundation 18-00113S, 2018–2020. Total budget: 5.871.000 CZK (approx. 230.000 EUR).

Completed projects as (co-)principal investigator:

3. Principal investigator of *Predicate graded logics and their applications to computer science*, Czech Science Foundation 17-04630S, 2017–2019. Total budget: 5.769.000 CZK (approx. 225.000 EUR).
4. Local coordinator of *Syntax Meets Semantics: Methods, Interactions, and Connections in Substructural logics SYSMICS*, European project H2020-MSCA-RISE-2015, 2016–2019. Budget for my team: 31.500 EUR.
5. Principal investigator of *First-order many-valued logics*, Czech Academy of Sciences - CONICET Argentina, Bilateral Mobility Research Project, 2017–2018.
6. Co-principal investigator of *Modeling vague quantifiers in mathematical fuzzy logic*, joint project of Austrian Science Fund I1897-N25 and Czech Science Foundation GF15-34650L, 2015–2017. Budget for my team: 1.461.000 CZK (approx. 55.000 EUR).
7. Principal investigator of *An order-based approach to non-classical propositional and predicate logics*, Czech Science Foundation 13-14654S, 2013–2016. Total budget: 4.570.000 CZK (approx. 175.000 EUR).
8. Personal grant *Mathematical fuzzy logic as a tool for reasoning with imperfect information* (2009–2012) “Juan de la Cierva” grant of the Spanish government (JCI-2009-05453). Total budget: 72.000 EUR.
9. Personal grant *Algebraic and proof-theoretic methods for the formalization of reasoning with vagueness* (2007–2009) “Beatriu de Pinós” grant of the Catalan government (2006-BPA-10043). Total budget: 58.000 EUR.

Other past projects as a member:

- Member of 2 European projects:
 1. MaToMUVI (2011–2013) *Mathematical Tools for the Management of Uncertain and Vague Information* (PIRSES-GA-2009- 247584).

2. LoMoReVI (2009–2011) *Logical Models of Reasoning with Vague Information* (EU-ROCORES Programme, FFI2008-03126-E/FILO).

- Member of 4 Spanish projects (2002 – 2012).

TEACHING EXPERIENCE:

- Two master courses at the Czech Technical University in Prague:
Logic for Computer Science (2018, 2020)
- Two master courses at the Faculty of Mathematics and Physics of the Charles University in Prague:
 1. *Introduction to Algebraic Logic* (2019)
 2. *General Theories of Logical Systems* (2020)
- Seven master/bachelor courses at the Department of Logic of the Charles University in Prague:
 1. *Introduction to Algebraic Logic* (2015, 2017, 2019)
 2. *General Theories of Logical Systems* (2014, 2016)
 3. *Mathematical Fuzzy Logic* (2013, 2016)
- One master course at the Faculty of Mathematics of the National University of Central Buenos Aires:
Introduction to Algebraic Logic (2015)
- Two graduate courses at the Faculty of Mathematics of the University of Siena:
Mathematical Fuzzy Logic (2008, 2009)
- Three undergraduate courses at the University of Lleida:
 1. *Computational logic* (2006)
 2. *Artificial intelligence* (2006)
 3. *Intelligent systems* (2007)
- One course at the International Tbilisi Summer School on Logic and Language (Tbilisi, Georgia): *Reasoning with graded predicates in Mathematical Fuzzy Logic* (2017).
- One tutorial at the Israeli Workshop on Non-Classical Logics and Their Applications: *Mathematical Fuzzy Logic* (2014).
- One tutorial at the School of Universal Logic: *Logic, Algebra and Implication* (2013).
- Part of a master course in the Autonomous University of Barcelona: *Advanced Artificial Intelligence* (2013).
- Two courses at European Summer School in Logic, Language and Information (ESS-LLI): *Abstract Algebraic Logic: theory and applications* (2012), *A gentle introduction to Mathematical Fuzzy Logic* (2014).

ACADEMIC SUPERVISION:

- **Postdocs:**
 1. Berta Grimau (since October 2018), postdoc at Czech Science Foundation project.
 2. Tomáš Lávička (since October 2018), postdoc at Czech Science Foundation project and Mareš stipendium.
- **Ph.D. students:**

1. Tomáš Lávička, *An abstract study of completeness in infinitary logics*, Charles University in Prague (thesis defended on October 2018).
- Member of the evaluation committee of 7 other Ph.D. theses.
- **Master students:**
 1. Tomáš Lávička, *Classification of (in)finitary logics*, Charles University in Prague, 2015.

Invited lectures in international conferences:²

1. *TBA* (plenary invited lecture at Logic, Algebra and Truth Degrees 2021, Tbilisi, Georgia, September 2021).
2. *Logic and Implication: An introduction to the general algebraic study of non-classical logics* (plenary invited tutorial at 18th Latin American Symposium on Mathematical Logic, Concepción, Chile, December 2019).
3. *Graded Model Theory: a logical study of weighted structures* (plenary invited lecture at 11th Conference of the European Society for Fuzzy Logic and Technology, Prague, Czech Republic, September 2019).
4. *Logic, Algebra and Implication* (plenary invited tutorial at 56th Summer School on Algebra and Ordered Sets, Špindlerův Mlýn, Czech Republic, September 2018).
5. *Logics of graded predicates* (plenary invited tutorial at 32nd International Symposium Logica, Hejnice, Czech Republic, June 2018).
6. *A graded model theory* (plenary invited lecture at Beauty of Logic, Prague, Czech Republic, January 2018).
7. *Logic and implication* (plenary invited lecture at XIV at Monteiro Congress, Bahía Blanca, Argentina, June 2017).
8. *Non-associative substructural logics: alternative axiomatization, algebraic and logical properties* (session invited lecture at 15th Latin American Symposium on Mathematical Logic, Bogotá, Colombia, June 2012).
9. *An abstract study of disjunction connectives in non-classical logics* (plenary invited lecture at Argentinian Mathematical Society meeting 2011, San Miguel de Tucumán, Argentina, September 2011).
10. *From fuzzy sets to mathematical fuzzy logic* (plenary invited lecture at Tenth International Conference on Fuzzy Set Theory and Applications FSTA 2010, Liptovský Jan, Slovakia, February 2010).

²This list contains only international events that also included contributed talks; thus lectures at workshops where all participants were invited are not counted here.

Research stays abroad:³

1. Department of Philosophy, The University of Sydney (Sydney, Australia, 6 October – 12 November 2018).
2. Department of Mathematics and Statistics, University of La Trobe (Melbourne, Australia, 31 January – 31 March 2017).
3. School of Computer Science and Applied Mathematics, University of Witwatersrand (Johannesburg, South Africa, 11 July – 9 August 2016).
4. National University of Central Buenos Aires (Tandil, Argentina, 15 January – 14 March 2015).
5. Centre for Logic, Epistemology and the History of Science, University of Campinas (Campinas, Brazil, 10 May – 9 June 2012).
6. Department of Computer Science, University of Buenos Aires (Buenos Aires, Argentina, 26 July 2011 – 27 September 2011).
7. Department of Mathematics and Computer Science, University of Siena (Siena, Italy, 17 May – 15 July 2005).
8. Department of Computer Science and Mathematics, University of Salerno (Salerno, Italy, February – April 2004).

Additional professional activities:

- Area editor for Logic in the journal *Fuzzy Sets and Systems* (since 2019).
- Member of the editorial board of *Mathematics* (since 2020).
- Member of the editorial board of *Journal of Multiple-Valued Logic and Soft Computing* (2014 – 2020).
- Frequent referee for peer-reviewed journals and conferences (see verified record at <http://publons.com/researcher/2662710/carles-noguera/>).
- Member (and cofounder) of the steering committee of the series of conferences *Logic, Algebra and Truth Degrees* (since 2008).
- Member of the programme committee of 38 international conferences.
- Member of the organizing committee of 13 conferences and workshops.
- Coordinator of the ERCIM working group on Many-valued logic (ManyVal) (2014 – 2018).
- Coordinator of the EUSFLAT working group of Mathematical Fuzzy Logic (MathFuz-zLog) (2007 – 2017).
- Evaluator of research project proposals for the state funding agencies of Argentina, Austria, Hungary, Israel, and Switzerland.

³We list only stays over one month.

LIST OF PUBLICATIONS

Books:

1. *Logic and Implication: An Introduction to the General Algebraic Study of Non-Classical Logics*, to appear in Trends in Logic, Springer, 2020. (with P. Cintula)
2. *Slabě implikativní logiky: Úvod do abstraktního studia výrokových logik*, Univerzita Karlova v Praze, Filozofická fakulta, Prague, 2015. (ISBN: 978-80-7308-576-6) (with P. Cintula)
3. *Algebraic study of axiomatic extensions of triangular norm based fuzzy logics*, Monographs of the Artificial Intelligence Research Institute vol. 27, Barcelona, 2007. (ISBN: 978-84-00-08538-4)

Chapters in books:

1. Lluís Godo on Mathematical Fuzzy logic. In *Festschrift for Lluís Godo*, Francesc Esteva (ed), Institut de Mathematiques de Toulouse, 2017, pp. 24–31. (with P. Dellunde)
2. The quest for the basic fuzzy logic, *Petr Hájek on Mathematical Fuzzy Logic*, chapter 12, F. Montagna (ed), Outstanding Contributions to Logic, vol. 6, Springer, 2014, pp. 245–290. (ISBN: 978-3-319-06232-7) (with P. Cintula and R. Horčík)
3. Arithmetical complexity of first-order fuzzy logics, *Handbook of Mathematical Fuzzy Logic – volume 2*, chapter XI, P. Cintula, P. Hájek, C. Noguera (eds), Studies in Logic, Mathematical Logic and Foundations, vol. 38, College Publications, London, 2011, pp. 853–908. (ISBN: 978-1-84890-054-7) (with P. Hájek and F. Montagna)
4. A general framework for Mathematical Fuzzy Logic, *Handbook of Mathematical Fuzzy Logic – volume 1*, chapter II, P. Cintula, P. Hájek, C. Noguera (eds), Studies in Logic, Mathematical Logic and Foundations, vol. 37, College Publications, London, 2011, pp. 103–207. (ISBN: 978-1-84890-039-4) (with P. Cintula)
5. On n-contractive fuzzy logics: first results, *Uncertainty and Intelligent Information Systems*, B. Bouchon-Meunier, R.R. Yager, C. Marsala, and M. Rifqi (eds), World Scientific, 2008, pp. 433–446. (ISBN: 978-981-279-234-1) (with F. Esteva and J. Gispert)

Encyclopedia entry:

1. Fuzzy logic, in *Stanford Encyclopedia of Philosophy*, 2016. (with P. Cintula and C. Fermüller)
<http://plato.stanford.edu/entries/logic-fuzzy/>

Edited volumes and special issues:

1. Special Issue on Many-valued Logics for Reasoning – Essays in Honor of Lluís Godo, *Soft Computing*, Volume 23, Pages 2125–2481, 2019. (edited by D. Dubois, F. Esteva, T. Flaminio, C. Noguera, H. Prade, and R.O. Rodríguez)
2. Special issue on Mathematical Fuzzy Logic – in honor of Francesc Esteva, *Fuzzy Sets and Systems*, Volume 292, Pages 1-424, 2016. (edited by F. Bou, M. Cerami, À. García-Cerdaña, L. Godo, and C. Noguera)

3. *Handbook of Mathematical Fuzzy Logic – volume 3*, Studies in Logic, Mathematical Logic and Foundations, vol. 58, College Publications, London, 2015. (ISBN: 978-1-84890-193-3) (edited by P. Cintula, C. Fermüller, and C. Noguera)
4. *Handbook of Mathematical Fuzzy Logic – volume 2*, Studies in Logic, Mathematical Logic and Foundations, vol. 38, College Publications, London, 2011. (ISBN: 978-1-84890-054-7) (edited by P. Cintula, P. Hájek, and C. Noguera)
5. *Handbook of Mathematical Fuzzy Logic – volume 1*, Studies in Logic, Mathematical Logic and Foundations, vol. 37, College Publications, London, 2011. (ISBN: 978-1-84890-039-4) (edited by P. Cintula, P. Hájek, and C. Noguera)
6. Special issue on Mathematical Fuzzy Logic, *Journal of Logic and Computation*, Volume 21, Issue 5, 2011. (edited by P. Cintula, G. Metcalfe and C. Noguera)
7. *Logic, Algebra and Truth Degrees 2010 – volume of abstracts*, Institute for Theoretical Computer Science Series, vol. 502, Prague, Czech Republic, 2010. (edited by K. Chvalovský, P. Cintula, and C. Noguera)

Papers in peer-reviewed journals:

1. Lindström theorems in graded model theory, *Annals of Pure and Applied Logic*, 2020. (DOI: 10.1016/j.apal.2020.102916) (with G. Badia)
2. Saturated models of first-order many-valued logics, *Logic Journal of the IGPL*, 2020. (DOI: 10.1093/jigpal/jzaa027) (with G. Badia)
3. A general omitting types theorem in mathematical fuzzy logic, *IEEE Transactions on Fuzzy Systems*, 2020. (DOI: 10.1109/TFUZZ.2020.2975146) (with G. Badia)
4. Classical and fuzzy two-layered modal logics for uncertainty: translations and proof-theory, *International Journal of Computational Intelligence Systems* 13:988–1001, 2020. (with P. Baldi and P. Cintula)
5. Syntactic characterizations of classes of first-order structures in mathematical fuzzy logic, *Soft Computing* 23:2177–2186, 2019. (with G. Badia, V. Costa, and P. Dellunde)
6. Towards a general possible-world semantics for modal many-valued logics, *Soft Computing* 23:2233–2241, 2019. (with P. Cintula and P. Menchón)
7. Extension properties and subdirect representation in abstract algebraic logic, *Studia Logica* 106:1065–1095, 2018. (with T. Lávička)
8. Fraïssé classes of graded relational structures, *Theoretical Computer Science* 737:81–90, 2018. (with G. Badia)
9. Back-and-forth systems for first-order fuzzy logics, *Fuzzy Sets and Systems* 345:83–98, 2018. (with P. Dellunde and Á. García-Cerdaña)
10. Neighborhood semantics for modal many-valued logics, *Fuzzy Sets and Systems* 345:99–112, 2018. (with P. Cintula)

11. Implicational (semilinear) logics III: completeness properties, *Archive for Mathematical Logic* 57:391–420, 2018. (with P. Cintula)
12. A new hierarchy of infinitary logics in abstract algebraic logic, *Studia Logica* 105:521–551, 2017. (with T. Lávička)
13. Löwenheim–Skolem theorems for non-classical first-order algebraizable logics, *Logic Journal of the IGPL* 24:321–345, 2016. (with P. Dellunde and À. García-Cerdaña)
14. Implicational (semilinear) logics II: additional connectives and characterizations of semilinearity, *Archive for Mathematical Logic* 55:353–372, 2016. (with P. Cintula)
15. A note on natural extensions in abstract algebraic logic, *Studia Logica* 103:815–823, 2015. (with P. Cintula)
16. Paraconsistency properties in degree-preserving fuzzy logics, *Soft Computing* 19:531–546, 2015. (with R. Ertola, F. Esteva, T. Flaminio, and L. Godo)
17. A Henkin-style proof of completeness for first-order algebraizable logics, *Journal of Symbolic Logic* 80:341–358, 2015. (with P. Cintula)
18. Non-associative substructural logics and their semilinear extensions: axiomatization and completeness properties, *Review of Symbolic Logic* 6:794–423, 2013. (with P. Cintula and R. Horčík)
19. A logical approach to fuzzy truth hedges, *Information Sciences* 232:366–385, 2013. (with F. Esteva and L. Godo)
20. The proof by cases property and its variants in structural consequence relations, *Studia Logica* 101:713–747, 2013. (with P. Cintula)
21. Implicational (Semilinear) Logics I: A New Hierarchy, *Archive for Mathematical Logic* 49:417–446, 2010. (with P. Cintula)
22. Arithmetical complexity of first-order predicate fuzzy logics over distinguished semantics, *Journal of Logic and Computation* 20:399–424, 2010. (with F. Montagna)
23. Generalized continuous and left-continuous t-norms arising from algebraic semantics for fuzzy logics, *Information Sciences* 180:1354–1372, 2010. (with F. Esteva and L. Godo)
24. Expanding the propositional logic of a t-norm with truth-constants: completeness results for rational semantics, *Soft Computing* 14:273–284, 2010. (with F. Esteva and L. Godo)
25. On expansions of WNM t-norm based logics with truth-constants, *Fuzzy Sets and Systems* 161:347–368, 2010. (with F. Esteva and L. Godo)
26. First-order t-norm based fuzzy logics with truth-constants: distinguished semantics and completeness properties, *Annals of Pure and Applied Logic* 161:185–202, 2009. (with F. Esteva and L. Godo)

27. Distinguished algebraic semantics for t-norm based fuzzy logics: methods and algebraic equivalencies, *Annals of Pure and Applied Logic* 160:53–81, 2009. (with P. Cintula, F. Esteva, J. Gispert, L. Godo, and F. Montagna)
28. A mathematical approach to the vagueness problem, *Butlletí de la Societat Catalana de Matemàtiques* 23:233–273, 2008. (in Catalan)
29. On triangular norm based axiomatic extensions of the Weak Nilpotent Minimum logic, *Mathematical Logic Quarterly* 54:387–409, 2008. (with F. Esteva and J. Gispert)
30. On completeness results for predicate Lukasiewicz, Product, Gödel, and Nilpotent Minimum logics expanded with truth-constants, *Mathware & Soft Computing* 14:233–246, 2007. (with F. Esteva and L. Godo)
31. On n-contractive fuzzy logics, *Mathematical Logic Quarterly* 53:268–288, 2007. (with R. Horčík and M. Petrík)
32. Adding truth-constants to logics of continuous t-norms: axiomatization and completeness results, *Fuzzy Sets and Systems* 158:597–618, 2007. (with F. Esteva, J. Gispert, and L. Godo)
33. On weakly cancellative fuzzy logics, *Journal of Logic and Computation* 16:423–450, 2006. (with F. Montagna and R. Horčík)
34. On product logic with truth constants, *Journal of Logic and Computation* 16:205–225, 2006. (with P. Savický, R. Cignoli, F. Esteva, and L. Godo)
35. On Rational Weak Nilpotent Minimum Logics, *Journal of Multiple-valued Logic & Soft Computing* 12:9–32, 2006. (with F. Esteva and L. Godo)
36. On some varieties of MTL-algebras, *Logic Journal of the IGPL* 13:443–466, 2005. (with F. Esteva and J. Gispert)
37. Perfect and bipartite IMTL-algebras and disconnected rotations of prelinear semihoops, *Archive for Mathematical Logic* 44:869–886, 2005. (with F. Esteva and J. Gispert)
38. On the scope of some formulas defining additive connectives in fuzzy logics, *Fuzzy Sets and Systems* 154:56–75, 2005. (with À. García-Cerdaña, and F. Esteva)

Papers in peer-reviewed conference proceedings:

1. Translating Classical Probability Logics into Modal Fuzzy Logics. *Proceedings of the 11th conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2019*, Martin Stepnicka (ed), Atlantis Press, pp. 342 – 349, 2019. (ISBN: 978-94-6252-770-6) (with P. Baldi and P. Cintula)
2. Saturated models in mathematical fuzzy logic. *Proceedings of the IEEE International Symposium on Multiple-Valued Logic 2018*, IEEE Computer Society, pp. 150–155, 2018. (with G. Badia)
3. A logical framework for graded predicates. In A. Baltag, J. Seligman, T. Yamada (eds), *International Workshop on Logic, Rationality and Interaction LORI 2017*, Lecture Notes in Computer Science, vol. 10455, pp. 3–16, 2017. (ISBN: 978-3-662-55664-1) (with P. Cintula and N.J.J. Smith)

4. From Kripke to neighborhood semantics for modal fuzzy logics. *Information Processing and Management of Uncertainty*, 16th International Conference, Eindhoven, The Netherlands, June 20–24, 2016, J.P. Carvalho, M.J. Lesot, U. Kaymak, S. Vieira, B. Bouchon–Meunier, R.R. Yager (eds), pp. 95–107, *Communications in Computer and Information Science*, Volume 611, Springer, 2016. (ISBN: 978-3-319-40580-3) (with P. Cintula and J. Rogger)
5. Modal logics of uncertainty with two layer-syntax: a general completeness theorem. *Logic, Language, Information and Computation – 21st International Workshop, WoLLIC 2014*, Ulrich Kohlenbach, Pablo Barceló, Ruy de Queiroz (eds), Valparaiso, Chile, September 1–4, 2014, *Lecture Notes in Computer Science*, Springer, pp. 124–136. (ISBN: 978-3-662-44144-2) (with P. Cintula)
6. Exploring paraconsistency in degree-preserving fuzzy logics, *Proceedings of the 8th conference of the European Society for Fuzzy Logic and Technology EUSFLAT 2013*, Gabriela Pasi, Javier Montero, Davide Ciucci (eds), Atlantis Press, pp. 117–124. (ISBN: 978-90786-77-78-9) (with R. Ertola, F. Esteva, T. Flaminio and L. Godo)
7. Fuzzy logics with truth hedges revisited, *Proceedings of the 7th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-2011) and LFA-2011*, Advances in Intelligent Systems Research, pp. 146–152, Sylvie Galichet, Javier Montero, Gilles Mauris (eds), Atlantis Press, 2011. (ISBN: 978-90-78677-00-0) (with F. Esteva and L. Godo)
8. An abstract approach to fuzzy logics: implicational semilinear logics, *Proceedings of the Joint 2009 International Fuzzy Systems Association World Congress and 2009 European Society of Fuzzy Logic and Technology Conference*, pp. 519–524, J.P. Carvalho, D. Dubois, U. Kaymak, J.M. Da Costa Sousa (eds), Lisbon, Portugal, 2009. (ISBN: 978-989-95079-6-8) (with P. Cintula)
9. Rational completeness results for prominent propositional fuzzy logics with truth-constants, *Actas del XIV congreso español sobre tecnologías y lógica fuzzy ESTYLF 2008*, pp. 133–139, Mieres, 2008. (ISBN: 978-84-691-5807-4) (with F. Esteva and L. Godo)
10. On completeness results for the expansions with truth-constants of some predicate fuzzy logics, *New dimensions in fuzzy logic and related technologies - Proceedings of Fifth EUSFLAT*, Volume II, pp. 21–26, M. Stepnicka, V. Novák, U. Bodenhofer (eds), Universitas Ostraviensis, 2007. (ISBN: 978-80-7368-387-0) (with F. Esteva and L. Godo)
11. Real, rational and finite chain semantics for fuzzy logics, *Actas del XIII congreso español sobre tecnologías y lógica fuzzy ESTYLF 2006*, pp. 83–88, Ciudad Real, 2006. (ISBN: 84-689-9547-9) (with F. Esteva and L. Godo)
12. On n-contractive fuzzy logics: first results, *Eleventh international conference IPMU 2006, Information processing and management of uncertainty in knowledge-based systems*, pp. 1612–1619, Paris, 2006. (ISBN: 2-84254-112-X) (with F. Esteva and J. Gispert)
13. On varieties generated by Weak Nilpotent Minimum t-norms, *Proceedings of Fourth EUSFLAT*, pp. 866–871, Barcelona, 2005. (ISBN: 84-7653-872-3) (with F. Esteva and J. Gispert)

14. On product fuzzy logic with truth-constants, *Proceedings of the Eleventh International Fuzzy Systems Association World Congress IFSA 2005*, vol. 2, pp. 1244–1249, Yingming Liu, Guoqing Chen, Mingsheng Ying (eds), Tsinghua University Press, Springer, 2005. (ISBN: 7-302-11377) (with R. Cignoli, F. Esteva and L. Godo)
15. On Rational Weak Nilpotent Minimum Logics, *Actas del XII congreso español sobre tecnologías y lógica fuzzy ESTYLF 2004*, pp. 413–418, Universidad de Jaén, 2004. (ISBN: 84-609-2160-3) (with F. Esteva and L. Godo)
16. On Rational Gödel and Nilpotent Minimum Logics, *Tenth international conference IPMU 2004, Information processing and management of uncertainty in knowledge-based systems*, vol. 1, pp. 561–568, Casa editrice Università La Sapienza, Perugia, 2004. (ISBN: 88-87242-54-2) (with F. Esteva and L. Godo)
17. On definability of additive connectives in fuzzy logics, *Tenth international conference IPMU 2004, Information processing and management of uncertainty in knowledge-based systems*, vol. 1, pp. 485–492, Casa editrice Università La Sapienza, Perugia, 2004. (ISBN: 88-87242-54-2) (with À. García-Cerdaña and F. Esteva)
18. On definability of maximum in left-continuous t-norms, *Proceedings of Third EUSFLAT*, pp. 271–288, M. Wagenknecht, R. Hampel (eds), Zittau, 2003. (ISBN: 3-9808089-4-7) (with F. Esteva and À. García-Cerdaña)

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