

Curriculum Vitae

Luca Aceto

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Personal Details

Born July 2, 1961, Pescara, Italy. Italian Citizenship. Languages: Italian (native), English (fluent), Danish (Basic). French (Basic), Icelandic (Basic).

Research Interests

Semantics of concurrency, with emphasis on the study of algebraic process description languages and on the techniques they support to specify and reason about reactive systems. Logic in Computer Science. Applications of equational logic in Computer Science, with special focus on process algebras, formal languages, automata, tropical semirings, min-max algebras and the theory of fixed points. Structural Operational Semantics. Computational complexity of verification problems and of problems in bioinformatics.

Academic Qualifications

University of Sussex,

DPhil Computer Science, July 1991

Under the supervision of Prof. Matthew Hennessy, I studied notions of semantic equivalence for process algebras which differ in their view of the granularity of actions. In particular the work focused on semantic theories for process algebras enriched with combinators which allow for the refinement of actions by processes. The thesis was examined by Prof. Robin Milner (external examiner) and Dr. Mark Millington (internal examiner). It was awarded one of the two Distinguished Dissertations in Computer Science awards in 1990/1991 and has been published by Cambridge University Press in September 1992.

University of Pisa,

Laurea (MSc) in Computer Science, July 1986

I followed an MSc course in Computer Science and graduated by writing a thesis entitled “Behavioural Semantics for Concurrency” under the supervision of Prof. Rocco De Nicola. The thesis focused on a study of the distinguishing power of different notions of observation of concurrent systems in the framework of Winskel’s Event Structures.

Academic Appointments

- Department of Computer Science, School of Science and Engineering, Reykjavík University, Head of Department, January–June 2007.
- Department of Computer Science, School of Science and Engineering, Reykjavík University, Full Professor, November 2004 onwards.
- Department of Computer Science, Aalborg University, Associate Professor, August 1996–December 2006.
- Afdeling for Matematik og Datalogi, Aalborg University, Visiting Research Professor, February 1995–June 1995.

- BRICS (Basic Research in Computer Science), Centre of the Danish National Research Foundation, Afdeling for Matematik og Datalogi, Aalborg University, BRICS Senior Research Fellow, September 1994–September 1996.
- Afdeling for Matematik og Datalogi, Aalborg University Centre, Invited Researcher, August 1993–December 1993.
- School of Cognitive and Computing Sciences, University of Sussex, Lecturer in Computer Science and Artificial Intelligence, October 1992–September 1996.
- Hewlett-Packard Laboratories, Pisa Science Center, Research Fellow, July 1991–September 1992.
- Centre de Mathématiques Appliquées, INRIA-Sophia Antipolis, Professeur Invité, January 1991–June 1991.
- Computer Science and Artificial Intelligence Subject Group, University of Sussex, Research Fellow, October 1987–December 1990.

Invited Visits

- GMD, Bonn (Germany); an invitation by Dr. Ursula Goltz to lecture on action refinement (October 1990).
- Aalborg University, Aalborg (Denmark); an invitation by Dr. Kim G. Larsen to lecture on distributed semantics and equational proof systems for process description languages (20–27 October 1991).
- Attila Jozsef University, Szeged, Hungary (November 1996); an invitation by Prof. Zoltan Ésik to help design courses on concurrency for Hungarian universities, and to lecture on iteration in process algebras.
- Invited Professor, Laboratoire Spécification et Vérification, Ecole Normale Supérieure de Cachan, Cachan, France (May 1998).
- Professore Visitatore, Dipartimento di Sistemi ed Informatica, Università di Firenze, Firenze, Italy (February–August 1998).
- Invited Professor, Reykjavík University, Reykjavík, Iceland, November–December 2002.
- Visiting Professor, Reykjavík University, Reykjavík, Iceland, September 2003–January 2004 and April–June 2004.
- Visiting Professor, Dipartimento di Matematica ed Informatica, Università di Camerino, Italy, July 2005, July 2006, September–December 2008 and 19–22 July 2010.
- Visiting professor at the Department of Informatics and Mathematical Modelling, Technical University of Denmark, 25 May–15 June 2010.
- Abel Extraordinary Chair at Universidad Complutense de Madrid, Spain, 15 October–15 December 2010.
- Visiting professor at Universidad Complutense de Madrid, Spain, 22 April–30 April 2012.
- Visiting professor at IMT Lucca, Italy, 1 May–30 June 2012.

Teaching

Courses Taught

- *Logic in Computer Science*, MSc. and third year BSc. course for Computer Science and Mathematics students at Reykjavík University, Reykjavík, Iceland, spring 2010. (Taught jointly with Anna Ingólfssdóttir.)
- *Problem Solving*, BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, autumn 2009. (I designed the course together with Magnus M. Halldorsson and Anna Ingólfssdóttir, and helped teaching it in part.)

- *Modelling and Verification*, MSc. course for Computer Science students at the University of Camerino, Italy, October–November 2008.
- *Algorithms*, BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, summer 2008 and autumn 2011.
- *Operating Systems and Control*, BEng. course for Engineering students at Reykjavík University, Reykjavík, Iceland, autumn 2007. (I delivered one-third of the course.)
- *Semantics: Theory and Applications*, MSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, autumn 2007 and 2009.
- *Operating Systems*, BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, autumn 2007.
- *Theory of Computation*, MSc. and third year BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, autumn 2006.
- *Modelling and Verification*, MSc. and third year BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, spring 2006, 2009–2012.
- *Compilers*, Third year BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, spring 2005, 2006 and 2011.
- *Formal Languages and Computability*, MSc. course for INF3 Informatics students at the Dept. of Computer Science, Aalborg University, autumn 2004.
- *Introduction to Computability and Complexity*, five lecture MSc. course for INF5 Informatics students at the Dept. of Computer Science, Aalborg University, autumn 2004.
- *Semantics and Verification*, MSc. course at the Dept. of Computer Science, Aalborg University, spring 2003–2004.
- *Syntax and Semantics*, invited BSc. course for Computer Science students at Reykjavík University, Reykjavík, Iceland, November 9, 2002–January 14, 2003 and 24 November–16 December 2004.
- *Professional Communication in Computer Science*, M.Sc. course at the Institute of Computer Science, Aalborg University, spring 2001–2004.
- *Algorithms and Data Structures*, BSc. course for Informatics students at the Institute of Computer Science, Aalborg University, autumn 2000–2002.
- *Syntax and Semantics*, BSc. course for Computer Science students at the Institute of Computer Science, Aalborg University, spring 2000–2002.
- *Syntax and Semantics*, BSc. course for Informatics students at the Institute of Computer Science, Aalborg University, spring 2002–2003.
- *Logic in Computer Science*, PhD. course at the Dept. of Computer Science, Aalborg University, spring 1999.
- *Formal Methods*, MSc. course at the Dept. of Computer Science, Aalborg University, autumn 1997–1998 and 2000.
- *Introduction to Computability*, MSc. course at the Dept. of Mathematics, Aalborg University, spring 1997.
- *Parallelism and Verification*, MSc. course at the Dept. of Computer Science, Aalborg University, spring 1997 and 2000.
- *Hybrid Systems*, MSc. course at the Dept. of Mathematics and Computer Science, Aalborg University, autumn 1996.

- *Computability and Complexity*, BSc. course at the Dept. of Mathematics and Computer Science, Aalborg University, autumn 1996–1999 and 2002.
- *Testing Processes*, MSc. course at the Dept. of Mathematics and Computer Science, Aalborg University, autumn 1993 and 1995.
- *Models of Parallelism*, MSc. course at the Dept. of Mathematics and Computer Science, Aalborg University, spring 1995.
- *Introduction to CCS*, MSc. course at the Dept. of Mathematics and Computer Science, Aalborg University, October 1993 and 1994.
- *Process Algebra*, Invited course at the “Sixth European summer School in Logic, Language and Information”, 8–19 August 1994, Copenhagen, Denmark.
- *Software Design*, Course for AI, CSAI and MAAI undergraduate students at the University of Sussex, summer 1993 and 1994.
- *Software Engineering*, Course for CS, CSAI, CSEURO, MACS, MCS and CSENG undergraduate students at the University of Sussex, spring 1993 and 1994.
- *Semantics of Programming Languages*, Course for CS and CSAI undergraduate students at the University of Sussex, spring 1994.
- *Computing Science 2*, Course for COMPAI and ECONCS undergraduate students at the University of Sussex, summer 1993.

Graduate Supervision

Ph.D. Students At the University of Sussex I have been a member of the thesis committee for the following doctoral students: Amer Al-Rawas (main supervisor Dr. Steve Easterbrook), William Ferreira (main supervisor Prof. Matthew Hennessy), Gary Straines (main supervisor Dr. Rudi Lutz) and Joe Wood (main supervisor Dr. Rudi Lutz).

At Reykjavik University, I supervise: Matteo Cimini (January 2009–December 2011, thesis: “Contributions to the meta-theory of Structural Operational Semantics”), Eugen-Ioan Goriac (starting from August 2010) and Georgiana Goriac Caltais (starting from August 2010).

At Aalborg University, I have also acted as supervisor for **Sumit Nain** (IIT, Delhi) during his research visit to Aalborg in October–December 2004. Some of our joint work during his stay in Aalborg is reported in the paper [47].

M.Sc. Students At Aalborg University, I have supervised the following MSc. students: Michael L. Olesen (thesis on “Test Automata”), Jan Pedersen (thesis on “Test Automata”), Mikkel Lykke Pedersen (thesis on “Model-Checking Characteristic Formulae”), Jan Poulsen (thesis on “Model-Checking Characteristic Formulae”), Joana Isabel Louro Migueus (jointly supervised with Ana Martins and Yasser Omar in Lisbon; thesis on “Quantum Data Compression”), and Joana Martinho (jointly supervised with Antonio Ravara in Lisbon; thesis on “The π -Calculus with Polyadic Synchronization”). Together with Flavio Corradini, I have also supervised Enrico Cianci’s MSc. thesis at the University of L’Aquila (Italy). I have also supervised Alessia Codiglione’s MSc. thesis at the University of Catania (Italy) (joint supervision with Franco Barbanera). Together with Nadia Busi, I have acted as supervisor for the MSc. theses of Andrea Degli Esposti and Michele Geri (University of Bologna, Italy).

At Reykjavik University, I supervised

- Maria Arinbjarnar’s MSc. thesis “Rational Dialog in Interactive Games” (completion date: June 2007; currently a PhD student at the University of York, UK),
- Arnar Birgisson’s MSc. thesis “Topics in Structural Operational Semantics” (completion date: June 2009; currently a PhD student at Chalmers University of Technology).

Mentoring of Postdoctoral Researchers

At Reykjavík University, I have employed [Silvio Capobianco](#) (PhD. University of Rome “La Sapienza”, August 2006–July 2008), [MohammadReza Mousavi](#) (PhD. Eindhoven University of Technology, September 2006–September 2007) and [Joshua Sack](#) (PhD. Indiana University at Bloomington, February 2009–December 2010). From March 2012, I will mentor [Dario Della Monica](#) (PhD. University of Udine).

Pedagogical Supervision

At Aalborg University, I have acted as pedagogical supervisor for [Josva Kleist](#), [Torben Bach Pedersen](#) and [Albrecht Schmidt](#).

Professional Activities

Refereeing Duties

I have acted as a referee for *ACM Transactions on Computational Logic*, *ACM Transactions on Programming Languages and Systems*, *Acta Informatica*, *Advances in Petri Nets*, *Distributed Computing*, *Formal Aspects of Computing*, *Handbook of Process Algebra, Information and Computation*, *International Journal of Foundations of Computer Science*, *Journal of the ACM*, *Journal of Logic and Algebraic Programming*, *Journal of Mathematical Structures in Computer Science*, *Mathematical Reviews*, *Mathematical Systems Theory*, *Nordic Journal on Computing*, *Notre Dame Journal of Formal Logic*, *Science of Computer Programming*, *Theoretical Computer Science*, *Theory and Practice of Logic Programming*, and several international conferences.

I also act as a reviewer for [Mathematical Reviews](#), [American Mathematical Society](#).

Membership of Organizing and Program Committees

I have been a member of the Program Committee for the following international conferences:

1. *Seventh International Conference on Concurrency Theory* (CONCUR '96) held in Pisa, Italy, August 26-29, 1996;
2. *EXPRESS '97*, 4th International Workshop on Expressiveness in Concurrency, Santa Margherita Ligure, Italy, 8–12 September 1997.
3. *Thirteenth Annual IEEE Symposium on Logic in Computer Science*, June 21–24, 1998, Indianapolis, Indiana, United States of America.
4. *EXPRESS '98*, 5th International Workshop on Expressiveness in Concurrency, Sophia Antipolis, France, September 1998.
5. *EXPRESS '99*, 6th International Workshop on Expressiveness in Concurrency, Eindhoven, The Netherlands, August 1999.
6. *EXPRESS'00*, 7th International Workshop on Expressiveness in Concurrency, August 2000. (Program Committee Co-Chairman together with Björn Victor.)
7. *EXPRESS'01*, 8th International Workshop on Expressiveness in Concurrency, August 2001. (Program Committee Co-Chairman together with Prakash Panangaden.)
8. Member of the Organizing Committee for *Twelfth International Conference on Concurrency Theory* (CONCUR 2001) held in Aalborg, Denmark, August 21-24, 2001.
9. *Process Algebra: Open Problems and Future Directions* (July 21-25, 2003, University of Bologna Residential Center, Bertinoro (Forlì), Italy). A workshop I co-organized with Zoltán Ésik (University of Szeged), Wan Fokkink (CWI) and Anna Ingólfssdóttir (BRICS and Aalborg University).
10. *International Conference on Software Engineering and Formal Methods*, Brisbane, Australia, 22–27 September 2003.

11. [Workshop on Structural Operational Semantics](#) affiliated to [CONCUR 2004](#), London, England, 30 August 2004. (Program Committee Co-Chairman together with Wan Fokkink and Irek Ulidowski.)
12. [CONCUR 2004](#), London, England, 31 August–3 September 2004.
13. [FOSSACS \(Foundations of Software Science and Computation Structures\) 2005](#), Edinburgh, Scotland, 4–8 April 2005.
14. [Inaugural ICE-TCS Symposium](#) held at Reykjavik University, Reykjavík, Iceland, 30 April 2005. (Co-organizer with Magnus M. Halldorsson and Anna Ingólfssdóttir.)
15. [Algebraic Process Calculi: The First Twenty Five Years and Beyond](#) (August 1–5, 2005, University of Bologna Residential Center, Bertinoro (Forlì), Italy). A workshop I am co-organizing with Mario Bravetti (Università di Bologna), Jim Davies (Oxford University), Wan Fokkink (CWI), Andy Gordon (Microsoft Research), Joost-Pieter Katoen (University of Twente), Faron Moller (University of Wales Swansea) and Steve Schneider (Royal Holloway).
16. [Conference on Algebra and Coalgebra in Computer Science \(CALCO\)](#), Swansea, Wales, 3–6 September 2005.
17. [Structural Operational Semantics 2005](#) affiliated to [ICALP 2005](#), Lisbon, Portugal, 10 July 2005.
18. [25th Conference on Foundations of Software Technology and Theoretical Computer Science \(FSTTCS '05\)](#), December 15–18, 2005, Indian Institute of Information Technology, Hyderabad, India.
19. [FOSSACS \(Foundations of Software Science and Computation Structures\) 2006](#), Vienna, Austria, 2006. (Program Committee Co-Chairman together with Anna Ingólfssdóttir.)
20. [Second ICE-TCS Symposium on Theoretical Computer Science](#), Reykjavík, Iceland, 31 May 2006. (Co-organizer with Magnus M. Halldorsson and Anna Ingólfssdóttir.)
21. [Twenty-first Annual IEEE Symposium on LOGIC IN COMPUTER SCIENCE \(LICS 2006\)](#), 10–22 August 2006, Seattle, Washington State, USA.
22. [17th International Conference on Concurrency Theory \(CONCUR 2006\)](#), 27–30 August 2006, Bonn, Germany.
23. [Nordic Workshop on Programming Theory 2006](#), 18–20 October 2006, Reykjavík, Iceland. (PC co-chair and co-organizer together with Anna Ingólfssdóttir.)
24. [Workshop on Science Funding in Iceland](#), 29 March 2007, Reykjavík, Iceland. (Co-organizer.)
25. [Structural Operational Semantics 2007](#) affiliated to [ICALP 2007](#) and [LICS 2007](#), Wroclaw, Poland, 9 July 2007. (PC member)
26. [IFIP WG 1.8 Workshop on Applying Concurrency Research in Industry](#) at [CONCUR 2007](#) in Lisbon on 7 September 2007. (Co-organizer with Jos Baeten, Wan Fokkink, Anna Ingólfssdóttir and Uwe Nestmann.)
27. [19th Nordic Workshop on Programming Theory \(NWPT'07\)](#), Oslo, Norway, 10–12 October, 2007. (PC member)
28. [Twelfth International Conference on Foundations of Software Science and Computation Structures \(FOSSACS 2008\)](#), Budapest, Hungary. (PC member)
29. [Thirtyfifth International Colloquium on Automata, Languages and Programming \(ICALP 2008\)](#), 7–11 July 2008, Reykjavík, Iceland. (Co-organizer with Magnus M. Halldórsson and Anna Ingólfssdóttir.)
30. [20th Nordic Workshop on Programming Theory \(NWPT'08\)](#), Tallinn, Estonia, 19–21 November 2008. (PC member)
31. [The 35th International Conference on Current Trends in Theory and Practice of Computer Science \(SOFSEM 2009\)](#), Czech Republic. (PC member for the Foundations of Computer Science track)

32. *Third FSEN: IPM International Conference on Fundamentals of Software Engineering (FSEN09)*, Iran, April 15–17 2009. (PC member)
33. *Structural Operational Semantics 2009*, 31 August 2009, Bologna, Italy. (PC member)
34. *20th International Conference on Concurrency Theory (CONCUR 09)*, 1–4 September 2009, Bologna, Italy. (PC member)
35. *Third Conference on Algebra and Coalgebra in Computer Science (CALCO 2009)*, Udine, Italy, 7–10 September 2009. (PC member)
36. *21st Nordic Workshop on Programming Theory (NWPT'09)*, Lyngby, Denmark, 14–16 October 2009. (PC member)
37. *International Conference on Formal Engineering Methods (ICFEM 09)*, Rio de Janeiro, December 9–12, 2009. (PC member)
38. *The 37th International Colloquium on Automata, Languages and Programming (ICALP 2010)*, 5–12 July 2010, Bordeaux, France. (PC member for track B)
39. *The 35th International Symposium on Mathematical Foundations of Computer Science*, Brno, Czech Republic, August 23–27, 2010. (PC member)
40. *Structural Operational Semantics 2010*, 30 August 2010, Paris, France. (PC co-chair)
41. *ICE-TCS Workshop on Logic and Concurrency*, 15 September 2010, Reykjavik, Iceland. (Co-organizer with Anna Ingólfssdóttir and Joshua Sack.)
42. *22nd Nordic Workshop on Programming Theory (NWPT'10)*, 10–12 November 2010, Turku, Finland. (PC member)
43. *Fourth FSEN: IPM International Conference on Fundamentals of Software Engineering (FSEN11)*, April 20–22, 2011 Tehran, Iran. (PC member)
44. *The 38th International Colloquium on Automata, Languages and Programming (ICALP 2011)*, 4–8 July 2011, Zürich, Switzerland. (PC chair for track B)
45. *Structural Operational Semantics 2011*, August 2011, Aachen, Germany. (PC member)
46. <http://www.win.tue.nl/paco2011/> Process Algebra and Coordination (PACO 2011), one-day workshop held on June 9, 2011, as a satellite event of *DisCoTec 2011*. (PC co-chair)
47. *31st Foundations of Software Technology and Theoretical Computer Science*, December 12–14, 2011, IIT Bombay, Mumbai, India.
48. *ICE-TCS Turing Centenary Events*, Reykjavík University, Iceland. (Organizer)
49. *Foundations of Software Science and Computation Structures (FOSSACS 2012)*, Tallinn, Estonia, March 2012. (PC member)
50. *ICE 2012, 5th Interaction and Concurrency Experience*, June 16, 2012, Stockholm, Sweden. (PC member)
51. *23rd International Conference on Concurrency Theory (CONCUR 2012)*, Newcastle upon Tyne, UK, 3rd–8th of September 2012. (PC member)
52. *European Symposium on Programming (ESOP 2013)*. (PC member)

Membership of Editorial Boards

- Editor of *Electronic Proceedings in Theoretical Computer Science* (March 2009 onwards).
- Editor of the “Concurrency Column” in the *Bulletin of the EATCS* (October 2003 onwards).
- Editor of *Journal on Logic and Algebraic Programming*, Elsevier (December 2003 onwards).
- Editor of *Acta Cybernetica*.
- Guest editor of a special issue of *Logical Methods in Computer Science* devoted to selected papers from FOSSACS 2012; Lars Birkedal co-editor.
- Guest editor of a special issue of *Information and Computation* devoted to selected papers from ICALP 2011; M. Henzinger and J. Sgall co-editors.
- Guest editor of a special issue of *Mathematical Structures in Computer Science* devoted to a commemoration of Nadia Busi.
- Guest editor of *Theoretical Computer Science* (special issue devoted to selected papers from *Process Algebra: Open Problems and Future Directions* (July 21-25, 2003, University of Bologna Residential Center, Bertinoro (Forlì), Italy); Zoltán Ésik, Wan Fokkink and Anna Ingólfssdóttir co-editors).
- Guest editor of **Volume 80, Issue 1, of *Information Processing Letters*** (special issue on Process Algebra; Wan Fokkink co-editor).
- Guest editor **Volume 13, Issues 4–5 of *Mathematical Structures in Computer Science*** (special issue devoted to “The Difference between Concurrent and Sequential Computation” and to selected papers from EXPRESS’00: 7th International Workshop on Expressiveness in Concurrency; Giuseppe Longo editor in chief, Luca Aceto and Bjorn Victor guest editors).
- Guest editor of **Volume 9, number 2, of *Nordic Journal on Computing*** (special issue devoted to selected papers from EXPRESS’01: 8th International Workshop on Expressiveness in Concurrency; Prakash Panangaden co-editor).
- Guest editor of a special issue on Structural Operational Semantics of *Journal on Logic and Algebraic Programming* (Wan Fokkink co-editor).

Invited Addresses and Courses

- *How to Give a Scientific Talk and Referee a Scientific Article*. Invited two-lecture mini-course to PhD students at the School of Advanced Studies, University of Camerino, Italy, 21 July 2010.
- *Characteristic Formulae for Fixed-Point Semantics: A General Framework*. Invited talk at the **Mogens-Fest Symposium**, Århus, Denmark, October 3–4, 2009.
- *The Life-cycle of a Scientific Article*. Invited three-lecture mini-course to PhD students at the School of Advanced Studies, University of Camerino, Italy, October 28–29, 2008.
- *Impossibility Results in the Equational Logic of Processes*. Invited talk at **LSV \models 10**, CNRS and ENS de Cachan, UMR 8643, Cachan, Paris, 26–27 November 2007.
- *The Saga of the Axiomatization of Parallel Composition*. Invited talk at **CONCUR 2007**, Lisbon, Portugal, September 4–7, 2007.
- *How Do You Like Iceland? A View from a Foreign Academic*. Invited talk at the Rannis Conference on the “Status of Iceland in the Competition for International Talent in Research”, Reykjavík, Iceland, 4 May 2007.
- *Impossibility Results in the Equational Logic of Processes*. Invited talk at the **Workshop on Logic, Models and Computer Science (LMCS06)** organized by the Italian Association for Logic and its Applications (AILA), Camerino, Italy, 20–22 April 2006.

- *Bisimilarity is not Finitely Based over BPA with Interrupt*. Invited talk at the [Symposium on the Semantics of Concurrency](#), Eindhoven University of Technology, The Netherlands, 26 September 2005.
- *Nested Semantics over Finite Trees are Equationally Hard*. Invited talk at [EXPRESS'03](#), 2 September 2003, Marseille, France.
- *Kleene Through the Process Algebraic Glass*. Invited talk at Fixed Points in Computer Science 2002 (FICS'2002), July 20–21, 2002, Copenhagen, Denmark.
- *Process Algebras with Deterministic Time*. Invited course at the [1st International School on Formal Methods for the Design of Computer, Communication and Software Systems: Process Algebras](#), 23–28 July 2001, Bertinoro, Italy.
- *A Tutorial on Classic Concurrency Theory*. Invited tutorial held jointly with Kim G. Larsen at the “Workshop on Geometric and Topological Methods in Concurrency Theory”, Department of Mathematical Sciences, Aalborg University, 21 June 1999.
- *Structural Operational Semantics*. Invited PhD. course for students of the Departments of Mathematics and Computer Science of the Universities of Bologna, Pisa and Siena, June 1998.
- *Behind the Scene of SPIN*. Invited mini-course at the Technical University of Denmark, Copenhagen, 13 November 1997. (Two lectures.)
- *A Meta-theory of Process Algebras based on Structural Operational Semantics*. Invited presentation at the annual meeting of the Italian chapter of the European Association for Theoretical Computer Science, Florence, 17 October 1997.
- *A Menagerie of Non-Finitely Based Process Semantics over BPA*: From Ready Simulation to Completed Traces*. Invited presentation at the EXPRESS Workshop in Schloss Dagstuhl, Germany, September 16, 1996.
- *Process Algebra*. Invited course at the “Sixth European Summer School in Logic, Language and Information”, 8–19 August 1994, Copenhagen, Denmark.
- *GSOS and Finite Labelled Transition Systems*. Invited presentation at the CONCUR2 Workshop in Aalborg, Denmark, September 20, 1993.
- *A Static View of Localities*. Invited presentation at the CEDISYS Workshop in Sophia Antipolis, Antibes, France, September 1991.
- *On Relating Concurrency and Nondeterminism*. Invited presentation at the Chalmers Workshop on Concurrency, Båstad, Sweden, May 1991.
- *Full Abstraction for Series Parallel Pomsets*. Invited presentation at the 3rd Workshop on Concurrency and Compositionality, Goslar, Germany, March 1991.

Membership of Learned Bodies

- Member of the Icelandic Academy of Sciences (SOCIETAS SCIENTIARUM ISLANDICA, Vísindafélag Íslendinga), January 2012 onwards.
- Member of the Scientific Board of the Doctoral Program in Computer Science and Engineering at IMT Lucca (October 2011 onwards).
- Scientific co-director of the [Icelandic Centre of Excellence in Theoretical Computer Science \(ICE-TCS\)](#), March 2005 onwards. (Together with Magnús M. Halldórsson and Anna Ingólfssdóttir.)
- Member of the [Icelandic Center for Research on Software Engineering \(ICE-ROSE\)](#) (October 2009–to date).
- Member of the steering committee for ETAPS (September 2004–February 2006).

- Chair of the **IFIP Working Group 1.8 on Concurrency Theory** under TC.1 (2005–2010).
- Member of the scientific advisory board of the **Bertinoro International Center for Informatics (BICI)** (2002–2009).
- Member of the council of the **EATCS** (European Association for Theoretical Computer Science) (2005–2013). I have been re-elected for a second term in October 2009.
- Member of the board of **BRICS** (Basic Research in Computer Science, Centre of the Danish National Research Foundation) (1996–to date).
- Member of the *European Association for Theoretical Computer Science*.
- Member of the Italian Association for Researchers in Computer Science (GRIN).
- Member of the Associazione Italiana di Logica e sue Applicazioni (AILA).
- Member of the steering committee for the EEC funded HCM project EXPRESS (1994–1997).
- Member of the **European Computing Education and Training (ECET)**, centre of the Socrates/Erasmus programme of the European Commission.

Offices Held

Internationally

- Member of the committee for the EATCS Best Award at ETAPS 2012.
- Chairman of the Publication Committee of the **EATCS** (European Association for Theoretical Computer Science) (July 2008–to date).
- Referee for Daniel Hirschhoff’s Habilitation thesis “Calculs de processus : observations et inspections” at the École Normale Supérieure de Lyon, France (December, 2009).
- Referee for an application of promotion to a full professor position at York University, Toronto, Department of Computer Science (September 2008).
- Lead referee for an application of promotion to a readership position at the University of York, Department of Computer Science (February–April 2008).
- Member of the prize committee for the AILA Award 2006–2007 (best PhD thesis in Logic in Italy awarded by the Italian Association for Logic and its Applications, AILA). (January–April 2008)
- Reviewer of grant applications for the **Academy of Finland**, autumn 2007 (two applications).
- Member of the ICALP Liaison Committee of the **EATCS** (European Association for Theoretical Computer Science) (July 2006–to date).
- Reviewer of grant applications for the Foundation for Polish Science, summer 2011 (one proposal).
- Reviewer of grant applications for the **Council of Physical Sciences of the Netherlands Organization for Scientific Research (NWO)**, spring 2003 (one proposal), autumn 2004 (two proposals) and autumn 2011 (two proposals).
- Reviewer of applications for the admission of candidates to the doctoral courses at the School of Advanced Studies, University of Camerino, Italy (autumn 2011).
- Consultant for the development of a course on Concurrency Theory for the Department of Mathematics and Computer Science, József Attila University, Szeged, Hungary, 11–17 November, 1996.
- Advisor to the Danish Centre for Quality Assurance and Evaluation of Higher Education in 1995.

At Reykjavík University

- Member of the Research Council of the School of Computer Science (spring 2011-to date).
- Member of the Undergraduate Study Council of the School of Computer Science (spring 2011-to date).
- Member of the Language Council at Reykjavik University (spring 2011-to date).
- Chairman of the search committee for a faculty hiring in computer systems (spring 2011).
- Member of the evaluation committee for the Reykjavík University Development Fund (April 2010).
- Member of the Research Council at Reykjavik University. (October 2009–August 2011).
- Chairman of the Research Council at Reykjavik University. (October 2009–August 2010).
- I am a co-organizer of the new “Interdisciplinary Lecture Series” at the School of Computer Science. (May 2009–onwards)
- I helped design the new courses *Introduction to Computer Science* and *Problem Solving* in May-August 2009.
- Chief organizer from for Reykjavík University of the joint M.Sc. degree programme in Computer Science with the University of Camerino.
- Member of the advisory board for the University International Office. (December 2007–to date)
- Member of the University Ethical Committee. (September 2007–to date)
- Acting chair of the Department of Computer Science. (January 2007–June 2007).
- Member of the research council for the School of Science and Engineering. (February 2006–January 2007)
- Member of the research council for the Department of Computer Science. (May 2005–February 2006)
- Member of the committee that prepared the rules for the distribution of governmental research funding amongst the schools that make up Reykjavík University. (Autumn 2005)

During Previous Employments

- I have been a member of the Syllabus Review Committee which has redesigned the degree courses in Computer Science and Artificial Intelligence at the University of Sussex in the period June–July 1993. In the period January 1994–August 1994, I have been the CSEURO organizer of the School of Cognitive and Computing Sciences, i.e. the member of staff responsible for the connections with other European countries.
- I have been in charge of organizing the programme of seminars for the Formal Methods group at the Department of Mathematics and Computer Science, Aalborg University, from October 1994.
- I have been coordinator for the writing and submission of the short and long proposals for the LTR Reactive project STARS (Symbolic Techniques for the Analysis of Reactive Systems). This project proposal included six academic sites (BRICS, CWI, INRIA-Sophia Antipolis, KTH, Passau University and University of Sussex) and three industrial groups (Bang & Olufsen, EDS CVI and Logikkonsult).
- Chairman of the public relations and student recruiting working group of the Department of Computer Science, Aalborg University (1997–2004).
- Member of the “Rejseudvalg” at the Institute for Computer Science, Aalborg University (from February 1999 to date).

- Socrates coordinator at the Institute for Computer Science, Aalborg University (September 1999–January 2005).
- Co-chair of the Research Evaluation Committee for the period 1996–2001 at the Institute of Computer Science, Aalborg University.
- Organizer of the Computer Science Institute seminars at the Institute of Computer Science, Aalborg University, April 2001–January 2005.
- Member of the departmental Search Committee at the Institute for Computer Science, Aalborg University, May 2001–October 2004.
- Member of the evaluation committee for an academic position at the level of lecturer/associate professor at
 - Business School, Reykjavík University (spring 2005).
 - Department of Computer Science, Reykjavík University (December 2003, spring 2004 and January 2005).
 - Department of Computer Science, Aalborg University (spring 2004).

Postgraduate Examining

I have acted as examiner for the following postgraduate theses:

- Martin Weichert’s Licentiate thesis “FCBS: A Forked Calculus of Broadcasting Systems” at Chalmers University of Technology (Göteborg, Sweden);
- Flavio Corradini’s Ph.D. thesis “Space, Time and Nondeterminism in Process Algebras” at Università di Roma “La Sapienza”.
- William Ferreira’s D.Phil. thesis “Semantic Theories for Concurrent ML” at the University of Sussex.
- Jørgen Hedegaard Andersen’s Ph.D. thesis “Compositional Modal Logics” at the Department of Computer Science, Aalborg University.
- Kåre Jelling Kristoffersen’s Ph.D. thesis “Compositional Verification of Concurrent Systems” at the Department of Computer Science, Aalborg University.
- Marcin Jurdziński’s “Games for Verification and Synthesis” (progress report) at the BRICS Ph.D. School, Aarhus University.
- Gerd Behrmann’s thesis proposal “Towards Model Checking for Programmable Logic Controllers” at the Department of Computer Science, Aalborg University.
- Henrik Ejersbo Jensen’s Ph.D. thesis *Abstraction-Based Verification of Distributed Systems* at the Department of Computer Science, Aalborg University.
- Simone Tini’s Ph.D. thesis *Structural Operational Semantics for Synchronous Languages* at the Department of Computer Science, Università di Pisa, January 2000.
- Thomas Troels Hildebrandt’s Ph.D. thesis *Categorical Models for Concurrency: Independence, Fairness and Dataflow* at the BRICS Ph.D. School, Aarhus University, February 2000.
- Anne Labroue’s Ph.D. thesis *Méthodes Algébrique pour la Vérification de Systèmes Infinis* at the Laboratoire Spécification et Vérification, Ecole Normale Supérieure de Cachan, Cachan, France (January 2002).
- Frank D. Valencia’s Ph.D. thesis *Temporal Concurrent Constraint Programming*, BRICS Ph.D. School, Aarhus University (February 2003).

- Mauro Gattari's Ph.D. thesis *Distributed Systems: The delta- and γ -calculus* in Mathematical Logic and Theoretical Computer Science at the University of Siena, Italy (November 2004).
- Maria Rita Di Berardini's Ph.D. thesis *Timing, Efficiency and Fairness of Asynchronous Systems* in Computer Science at the University of L'Aquila, Italy (April 2005).
- MohammadReza Mousavi's Ph.D. thesis in Computer Science at the Eindhoven University of Technology, The Netherlands (September 2005).
- Taolue Chen's Ph.D. thesis *Clocks, Dice and Processes* in Computer Science at the Vrije Universiteit Amsterdam, The Netherlands (September 2009).
- Jesus Aranda's Ph.D. thesis *On the Expressivity of Infinite and Local Behaviour in some Fragments of the Pi-calculus* in Computer Science at LIX, Ecole Polytechnique (France) and Universidad del Valle (Colombia) (27 November 2009).
- Magnus Johansson's Ph.D. thesis *Psi-calculi: a Framework for Mobile Process Calculi* at the Department of Information Technology, Uppsala University, Sweden (31 May 2010).
- Steinar Hugl Sigurdarson's MSc. thesis at the School of Computer Science, Reykjavik University, Iceland (2 June 2011).

Awards and honours

- My doctoral dissertation *Action Refinement in Process Algebras* has been selected by the British Association of Professors in Computer Science as one of the two **Distinguished Dissertations in Computer Science** in 1990/1991 and has been published by Cambridge University Press in September 1992.
- Teacher of the year award for 1997 and 1999 from the Study Board for the Department of Mathematics and the Institute of Computer Science, Aalborg University.
- Selected as one of the forty-eight winners of the national Italian competition for associate professorships 1996–1998.
- Financial awards by the Faculty of Technical and Natural Sciences, Aalborg University, for excellence in teaching and/or research, December 1998, 2000, 2002, 2003 and 2005.
- Recipient of an Abel Extraordinary Chair to visit Universidad Complutense Madrid in the period 15 October–15 December 2010.

Grants

I have held the following research grants, roughly in reverse chronological order:

Grant from the Spanish Ministry for University and Research to visit Universidad Complutense Madrid to deliver a one-week MSc course in the period 22 April–30 April 2012. (1,700 euros.)

PhD grant awarded by the Icelandic Research Fund to Eugen-Ioan Goriac. The grant amounts to 6,720,000 ISK over a period of two years. There were 114 applications and 11 were funded.

Abel Extraordinary Chair grant to visit Universidad Complutense Madrid in the period 15 October–15 December 2010. (13,600 euros.)

Grant from Reykjavik University's Development Fund for the project "ICE-TCS: Research in Theoretical Computer Science" for 2010–2011 (1.5 million ISK, joint with Magnus Halldorsson and Anna Ingólfssdóttir).

"Meta-theory of Algebraic Process Theories" Grant of The Icelandic Research Fund for the period 2010–2012. (19,980,000 ISK. Joint with Anna Ingólfssdóttir, Wan Fokkink and MohammadReza Mousavi.)

"Processes and Modal Logic" Grant of The Icelandic Research Fund for the period 2010–2012. (14,100,000 ISK. Joint with Anna Ingólfssdóttir, who is the principal investigator for the project.)

Jules Verne cooperation project with LIAFA, Paris Diderot, for the period 2010–2011. (600,000 ISK. Joint with Pierre Fraigniaud, Magnús M. Halldórsson, Anna Ingólfssdóttir, Francois Laroussinie.)

Grants from Reykjavik University's Development Fund for the project "Process Algebra and Modal Logic" for 2009 and 2010 (3 million and 4.2 million ISK, respectively).

Grants of the Italian Ministry for University and Research to support the new joint Reykjavik University-University of Camerino M.Sc. Programme in Computer Science in 2009 and 2010. (20,300 and 23,500 euros, respectively. Joint with Flavio Carradini and Emanuela Merelli at the University of Camerino.)

"New Developments in Operational Semantics" Grant from Reykjavik University's Development Fund for the period 2008–2009. (3,000,000 ISK. Joint with Anna Ingólfssdóttir.)

"New Developments in Operational Semantics" Grant of The Icelandic Research Fund for the period 2008–2010. (15,000,000 ISK. Joint with Anna Ingólfssdóttir and MohammadReza Mousavi.)

"Equational Logic of Parallel Processes". Grant nr. 060013021 of The Icelandic Research Fund for the period 2006–2008. (11,400,000 ISK. Joint with Anna Ingólfssdóttir.)

Nyskopunarsjodi namsmanna 2005 grant for the project "The Power of Logic in Pedigree Analysis" to support student research over the summer. (330,000 ISK. Joint with Anna Ingólfssdóttir.)

Grant from SNF, Danish Research Agency (Ministry of Science, Technology and Innovation), to support a research visit to Reykjavik University, Iceland, to work on the project *The Equational Logic of Processes* (November 2003–January 2004).

Grant from the European Community for the Socrates project ECET, October 2002–October 2004.

Grant from ENS Cachan as visiting professor (May 1998).

Italian CNR, Gruppo Nazionale per l'Informatica Matematica (GNIM), grant to work at the Dipartimento di Sistemi ed Informatica, Università di Firenze, Italy (March–June 1998).

EEC grant under the Human Capital and Mobility programme for the EXPRESS project. (January 1994–December 1997)

British Council Grant to foster collaborations with the researchers at Aalborg University Centre, Denmark. (August–December 1993)

Co-authors

I have published papers, or edited volumes, with the following co-authors: Jos Baeten, Arnar Birgisson, Bard Bloom, Patricia Bouyer, Mario Bravetti, Augusto Burgueño, Georgiana Caltais, Silvio Capobianco, Taolue Chen, Matteo Cimini, Ivan Damgård, Naieem Dathi, Rocco De Nicola, Uffe Engberg, Zoltán Ésik, Ignacio Fábregas, Alessandro Fantechi, Wan Fokkink, David de Frutos Escrig, Rob van Glabbeek, Leslie Ann Goldberg, Andrew D. Gordon, Eugen-Ioan Goriac, Carlos Gregorio-Rodríguez, Jan Friso Groote, Magnús Már Halldórsson, Jens A. Hansen, Matthew Hennessy, Monika Henzinger, Wiebe Van Der Hoek, Hans Hüttel, Anna Ingólfssdóttir, Ali Jafari, Alan Jeffrey, Jacob Johnsen, Josva Kleist, John Knudsen, François Laroussinie, Kim Guldstrand Larsen, Paul Blain Levy, Giuseppe Longo, Bas Luttik, MohammadReza Mousavi, David Murphy, Sumit Nain, Uwe Nestmann, Miguel Palomino, Prakash Panangaden, Mikkel Lykke Pedersen, Jaco van de Pol, Jan Poulsen, Michel Reniers, Arni Hermann Reynisson, Jiri Sgall, Steinar Hugi Sigurdarson, Marjan Sirjani, Pawel Sobocinski, Jiri Srba, Paul van Tilburg, Frits Vaandrager, Chris Verhoef, Björn Victor, and Igor Walukiewicz.

Impact Factor

I am in the list of **most prolific DBLP authors** with 118 entries on October 20, 2011. The list of 10,000 most cited authors in Computer Science of 14 September 2010, as maintained by **CiteSeerX**, ranks me at position 9539 (out of at least 79000 authors) with 705 citations. Google Scholar (accessed via Publish or Perish on 17 September 2010) gives 2048 citations to my work, with h-index 23 and g-index 42. ISI, which does not include most CS conferences, listed 667 citations to my papers on 23 September 2010. The **Libra Academic Search (Algorithms and Theory)** list ranks me at position 965 (January 2008).

Publications¹

Books

- [1] L. ACETO, A. INGÓLFSDÓTTIR, KIM G. LARSEN AND J. SRBA. *Reactive Systems: Modelling, Specification and Verification*, Cambridge University Press, August 2007. ISBN-13: 9780521875462.
- [2] L. ACETO. *Action Refinement in Process Algebras*. Distinguished Dissertations in Computer Science volume 3 (Prof. C. J. van Rijsbergen ed.), Cambridge University Press, September 1992. (ISBN 0–521–43111–5) *Paperback reissue* to appear in November 2005 (ISBN 0521019737).

Edited Volumes

- [3] L. ACETO AND M. MOUSAVI. *Proceedings of the First International Workshop on Process Algebra and Coordination (PACO 2011)*, volume 60 of Electronic Proceedings in Theoretical Computer Science, 6 August 2011.
- [4] L. ACETO, M. HENZINGER AND J. SGALL. *Automata, Languages and Programming, 38th International Colloquium, ICALP 2011, Zürich, Switzerland, July 4–8, 2011, Proceedings, Parts I and II*. Lecture Notes in Computer Science volumes 6755 and 6756, Springer-Verlag, July 2011.
- [5] L. ACETO AND P. SOBOCINSKI. *Proceedings of the Seventh Workshop on Structural Operational Semantics*, volume 32 of Electronic Proceedings in Theoretical Computer Science, 11th August 2010. Available at <http://dx.doi.org/10.4204/EPTCS.32>.
- [6] L. ACETO AND A. INGÓLFSDÓTTIR. *Special Issue in memory of Nadia Busi of Mathematical Structures in Computer Science*, Volume 19 - Special Issue 06 (Dedicated to Nadia Busi), pp. 1061–1287. Cambridge University Press, 2009.
- [7] L. ACETO, J. BAETEN, W. FOKKINK, A. INGÓLFSDÓTTIR AND U. NESTMANN. *Special Issue: IFIP WG1.8 Workshop on Applying Concurrency Research in Industry*. Journal of Logic and Algebraic Programming 78(4):191–288, April 2009.
- [8] L. ACETO AND A. INGÓLFSDÓTTIR. *Special Issue: The 16th Nordic Workshop on Programming Theory (NWPT 2006)*. Journal of Logic and Algebraic Programming 77(1–2):1–156 (September–October 2008).
- [9] L. ACETO, I. DAMGÅRD, L.A. GOLDBERG, M.M. HALLDÓRSSON, A. INGÓLFSDÓTTIR AND I. WALUKIEWICZ. *Automata, Languages and Programming, 35th International Colloquium, ICALP 2008, Reykjavik, Iceland, July 7–11, 2008, Proceedings, Parts I and II*. Lecture Notes in Computer Science volumes 5125 and 5126, Springer-Verlag, July 2008.
- [10] L. ACETO, M. BRAVETTI, W. FOKKINK AND A.D. GORDON. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond): Volume 3*. Journal of Logic and Algebraic Programming 75(1):1–166 (February–March 2008).
- [11] L. ACETO AND A. INGÓLFSDÓTTIR. *Foundations of Software Science and Computation Structures: 9th International Conference, FOSSACS 2006: Special Issue*. Journal of Logic and Algebraic Programming 73(1–2): 1–146, September–October 2007.
- [12] L. ACETO, M. BRAVETTI, W. FOKKINK AND A.D. GORDON. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond): Volume 2*. Journal of Logic and Algebraic Programming 72(1):1–122, May–June 2007.
- [13] L. ACETO, M. BRAVETTI, W. FOKKINK AND A.D. GORDON. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond)*. Journal of Logic and Algebraic Programming 70(2):119–238, February 2007.

¹Most of the papers occurring in the sections on journal publications and conference papers have also been published as technical reports.

- [14] L. ACETO AND A. INGÓLFSDÓTTIR. Participants' Proceedings for the [Eighteenth Nordic Workshop on Programming Theory 2006](#), 18–20 October 2006, Reykjavík, Iceland.
- [15] L. ACETO AND A.D. GORDON. [Essays on Algebraic Process Calculi](#). Electronic Notes in Theoretical Computer Science 162, pp. 1–340, Elsevier, 29 September 2006.
- [16] L. ACETO AND A. INGÓLFSDÓTTIR. [Foundations of Software Science and Computation Structures: 9th International Conference, FOSSACS 2006, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2006, Vienna, Austria, March 25–31, 2006. Proceedings](#), Lecture Notes in Computer Science 3921, Springer-Verlag, March 2006. ISBN: 3-540-33045-3.
- [17] L. ACETO AND A.D. GORDON. [Essays on Algebraic Process Calculi](#). BRICS Notes Series volume NS-05-3, 244 pages, June 2005. (ISSN 0909-3206)
- [18] L. ACETO, W. J. FOKKINK AND I. ULIDOWSKI. Electronic Notes in Theoretical Computer Science, [Volume 128, Issue 1](#), 4 May 2005, Pages 1–122, Proceedings of the Workshop on Structural Operational Semantics (SOS 2004). 30 August 2004.
- [19] L. ACETO, Z. ÉSIK, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. [Special issue of Theoretical Computer Science](#) devoted to selected papers from [Process Algebra: Open Problems and Future Directions](#) (July 21–25, 2003, University of Bologna Residential Center, Bertinoro (Forlì), Italy), volume 335(2–3):127–406, 23 May 2005.
- [20] L. ACETO AND W. J. FOKKINK. Special issue of the [Journal on Logic and Algebraic Programming](#) on Structural Operational Semantics, vols. 60–61C. Elsevier, July–December 2004.
- [21] L. ACETO, Z. ÉSIK, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. [Slide Reprints from the Workshop on Process Algebra: Open Problems and Future Directions](#) (July 21–25, 2003, University of Bologna Residential Center, Bertinoro (Forlì), Italy). BRICS Notes Series volume NS-03-03, November 2003.
- [22] L. ACETO, G. LONGO AND B. VICTOR (EDS.). [Special Issue on “The Difference between Concurrent and Sequential Computation” of Mathematical Structures in Computer Science](#). [Volume 13, Issues 4–5](#). Cambridge University Press, 2003.
- [23] L. ACETO AND P. PANANGADEN (EDS.). [Special Issue of the Nordic Journal of Computing](#) devoted to selected papers from [EXPRESS'01: 8th International Workshop on Expressiveness in Concurrency](#). Volume 9, number 2, summer 2002.
- [24] L. ACETO AND W. J. FOKKINK (EDS.). [Special Issue on Process Algebra of Information Processing Letters](#). Volume 80, Issue 1, 15 October 2001, Elsevier.
- [25] L. ACETO AND P. PANANGADEN (EDS.). [Proceedings of EXPRESS'01: 8th International Workshop on Expressiveness in Concurrency](#), Aalborg, Denmark (August 20, 2001). Issue 1 of volume 52 of ENTCS, Elsevier, 2001.
- [26] L. ACETO (ED.). [Research Evaluation 1996–2000 of the Computer Science Department](#), Aalborg University, Denmark (June, 2001).
- [27] L. ACETO AND B. VICTOR (EDS.). [Proceedings of EXPRESS'00: 7th International Workshop on Expressiveness in Concurrency](#), State College, PA, USA (August 21, 2000). Issue 1 of volume 39 of ENTCS, Elsevier, 2000.

Chapters in Books

- [28] L. ACETO, A. INGÓLFSDÓTTIR AND J.SRBA. The Algorithmics of Bisimilarity. Chapter 3 in [Advanced Topics in Bisimulation and Coinduction](#) (Jan Rutten and Davide Sangiorgi editors), volume 52 of Cambridge Tracts in Theoretical Computer Science, Cambridge University Press, October 2011.

- [29] L. ACETO, W. J. FOKKINK, A. INGÓLFSDÓTTIR, AND B. LUTTIK. **Finite Equational Bases in Process Algebra: Results and Open Questions**. *Processes, Terms and Cycles: Steps on the Road to Infinity: Essays Dedicated to Jan Willem Klop on the Occasion of His 60th Birthday* (Aart Middeldorp, Vincent van Oostrom, Femke Raamsdonk, and Roel de Vrijer editors), Lecture Notes in Computer Science 3838, pp. 338–367, Springer-Verlag, December 2005. ISBN: 3-540-30911-X.
- [30] L. ACETO. **Some of My Favourite Results in Classic Process Algebra**. *Current Trends in Theoretical Computer Science: The Challenge of the New Century*, Volume 2: Formal Models and Semantics (G. Paun, G. Rozenberg and A. Salomaa eds.), World Scientific Press, April 2004.
- [31] L. ACETO, W. J. FOKKINK AND C. VERHOEF. Conservative Extension in Structural Operational Semantics. *Current Trends in Theoretical Computer Science: Entering the 21st Century* (G. Paun, G. Rozenberg and A. Salomaa eds.), pp. 504–524, Word Scientific Press, March 2001.
- [32] L. ACETO, W. J. FOKKINK AND C. VERHOEF. *Structural Operational Semantics*. Chapter 3 (pp. 197–292) of the *Handbook of Process Algebra* (J. Bergstra, A. Ponse and S. Smolka eds.), Elsevier, 2001.

Journal Publications

- [33] L. ACETO, M. CIMINI, A. INGÓLFSDÓTTIR, M. MOUSAVI AND M. RENIERS. **SOS Rule Formats for Zero and Unit Elements**. *Theoretical Computer Science* 412(28):3045–3071, Elsevier, 2011.
- [34] L. ACETO, T. CHEN, A. INGÓLFSDÓTTIR, B. LUTTIK AND J. VAN DE POL. **On the Axiomatizability of Priority II**. *Theoretical Computer Science* 412(28):3035–3044, Elsevier, 2011.
- [35] L. ACETO, D. DE FRUTOS ESCRIG, C. GREGORIO-RODRÍGUEZ AND A. INGÓLFSDÓTTIR. **Complete and ready simulation semantics are not finitely based over BCCSP, even with a singleton alphabet**. *Information Processing Letters* 111(9):408–413, Elsevier, 2011.
- [36] L. ACETO, M. CIMINI AND A. INGÓLFSDÓTTIR. Proving the validity of equations in GSOS languages using rule-matching bisimilarity. To appear in *Mathematical Structures in Computer Science*, Special Issue devoted to SOS 2009, Cambridge University Press.
- [37] L. ACETO, A. INGÓLFSDÓTTIR, P.B. LEVY AND J. SACK. Characteristic Formulae for Fixed-Point Semantics: A General Framework. To appear in *Mathematical Structures in Computer Science*, Special Issue devoted to EXPRESS 2009, Cambridge University Press.
- [38] L. ACETO, A. BIRGISSON, A. INGÓLFSDÓTTIR, M. MOUSAVI AND M. RENIERS. **Rule Formats for Determinism and Idempotence**. To appear in *Science of Computer Programming*, Special Issue devoted to FSEN 2009 (Farhad Arbab and Marjan Sirjani guest editors).
- [39] L. ACETO, A. INGÓLFSDÓTTIR AND J. SACK. **Resource bisimilarity and graded bisimilarity coincide**. *Information Processing Letters* 111(2):68–76, Elsevier, 31 December 2010.
- [40] L. ACETO, W. FOKKINK, A. INGÓLFSDÓTTIR AND M. MOUSAVI. **Lifting Non-Finite Axiomatizability Results to Extensions of Process Algebras**. *Acta Informatica* 47(3):147–177, May 2010.
- [41] L. ACETO, W. J. FOKKINK, A. INGÓLFSDÓTTIR AND B. LUTTIK. **A Finite Equational Base for CCS with Left Merge and Communication Merge**. *ACM Transactions on Computational Logic* Volume 10, Number 1, January 2009.
- [42] L. ACETO, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. **A Cancellation Theorem for BCCSP**. *Fundamenta Informaticae* 88(1–2):1–21, 2008.
- [43] L. ACETO AND A. INGÓLFSDÓTTIR. **On the Expressibility of Priority**. *Information Processing Letters* 109(1):83–85, 2008.
- [44] L. ACETO, S. CAPOBIANCO, A. INGÓLFSDÓTTIR AND B. LUTTIK. **The Equational Theory of Pre-bisimilarity over Basic CCS with Divergence**. *Information Processing Letters* 108:284–289, 15 November 2008 (on-line publication).

- [45] L. ACETO, S. CAPOBIANCO, AND A. INGÓLFSDÓTTIR. **On the Existence of a Finite Base for Complete Trace Equivalence over BPA with Interrupt.** *Bulletin of the EATCS* 95:220–240, June 2008.
- [46] L. ACETO, T. CHEN, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. On the Axiomatizability of Priority. *Mathematical Structures in Computer Science* 18(1):5–28, February 2008. Special issue devoted to LMCS 2006 (Flavio Corradini and Carlo Toffalori eds.).
- [47] L. ACETO, W. J. FOKKINK, A. INGÓLFSDÓTTIR AND S. NAIN. Bisimilarity is not Finitely Based over BPA with Interrupt. *Theoretical Computer Science* 366(1–2):60–81, 16 November 2006. Special issue devoted to Algebra and Coalgebra in Computer Science (J. Fiadeiro and J. Rutten guest editors).
- [48] L. ACETO, W. J. FOKKINK, A. INGÓLFSDÓTTIR AND B. LUTTIK. **Split-2 Bisimilarity has a Finite Axiomatization over CCS with Hennessy’s Merge.** *Logical Methods in Computer Science*, Vol. 1 (1:3), 9 March 2005, 12 pages.
- [49] L. ACETO, W. J. FOKKINK, A. INGÓLFSDÓTTIR AND B. LUTTIK. **CCS with Hennessy’s Merge has no Finite Equational Axiomatization.** *Theoretical Computer Science* 330(3):377–405, 9 February 2005. Special issue devoted to selected papers from EXPRESS’03 (U. Nestmann and F. Corradini guest editors).
- [50] L. ACETO, W. J. FOKKINK, R. J. VAN GLABBEEK AND A. INGÓLFSDÓTTIR. **Nested Semantics over Finite Trees are Equationally Hard.** *Information and Computation* 191(2):203–232, 15 June 2004.
- [51] L. ACETO, JENS A. HANSEN, ANNA INGÓLFSDÓTTIR, JACOB JOHNSEN AND JOHN KNUDSEN. The Complexity of Checking Consistency of Pedigree Information and Related Problems. Special issue on bioinformatics (Paola Bonazzoni, Gianluca Dalla Vedova and Tao Jiang guest editors) of the *Journal of Computer Science and Technology* 19(1):42–59, January 2004.
- [52] L. ACETO, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. **A Note on an Expressiveness Hierarchy for Multi-exit Iteration.** *Information Processing Letters* 87(1):17–23, 16 July 2003.
- [53] L. ACETO, P. BOUYER, A. BURGUEÑO AND K. G. LARSEN. **The Power of Reachability Testing for Timed Automata.** *Theoretical Computer Science* 300(1–3):411–475, 2003.
- [54] L. ACETO, Z. ÉSIK AND A. INGÓLFSDÓTTIR. **Equational Theories of Tropical Semirings.** *Theoretical Computer Science* 298(3):417–469, 2003.
- [55] L. ACETO, Z. ÉSIK AND A. INGÓLFSDÓTTIR. **The Max-Plus Algebra of the Natural Numbers has no Finite Equational Basis.** *Theoretical Computer Science* 293(1):169–188, 17 January 2003.
- [56] L. ACETO AND F. LAROUSSINIE. **Is your Model Checker on Time? On the Complexity of Model Checking for Timed Modal Logics.** *Journal of Logic and Algebraic Programming* 52–53(C):7–51, September 2002.
- [57] L. ACETO, Z. ÉSIK AND A. INGÓLFSDÓTTIR. **A Fully Equational Proof of Parikh’s Theorem.** *RAIRO, Theoretical Informatics and Applications* 36(2):129–153, March/April 2002.
- [58] L. ACETO AND A. INGÓLFSDÓTTIR. Corrigendum: Volume 66 (1991), for the Article “A Domain Equation for Bisimulation” by Samson Abramsky, pp. 161–218. *Information and Computation* 165:119–122, 2001.
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- [60] L. ACETO AND J. F. GROOTE. A Complete Equational Axiomatization for MPA with String Iteration. *Theoretical Computer Science* 211(1–2):339–374, 28 January 1999.

- [61] L. ACETO, W. J. FOKKINK AND A. INGÓLFSDÓTTIR. On a Question of A. Salomaa: The Equational Theory of Regular Expressions over a Singleton Alphabet is not Finitely Based. *Theoretical Computer Science* 209(1–2):141–162, 6 December 1998.
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- [63] L. ACETO AND A. INGÓLFSDÓTTIR. A Characterization of Finitary Bisimulation. *Information Processing Letters* 64(3):127–134, November 1997.
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- [224] L. ACETO AND M. HENNESSY. Towards Action-Refinement in Process Algebras. Computer Science Technical Report 3/88, April 1988.
- [225] L. ACETO, R. DE NICOLA AND A. FANTECHI. Testing Equivalences for Event Structures. Nota Interna B4-63, IEI-CNR, December 1986.

Seminars and Conference Presentations

Towards Action-Refinement in Process Algebras.

- Seminar at Imperial College of Science and Technology, London, England, December 1988.
- Seminar at IEI-CNR, Pisa, Italy, December 1988.
- Seminar at the University of Sussex, Brighton, England, January 1989.
- Conference presentation at the 4th Annual Symposium on Logic in Computer Science, Asilomar, CA, U.S.A., June 1989.
- Seminar at GMD, Bonn, West Germany, October 1990.

Termination, Deadlock and Divergence.

- Conference presentation at the 5th Conference on Mathematical Foundations of Programming Semantics, New Orleans, LA, U.S.A., March 1989.
- Seminar at IEI-CNR, Pisa, Italy, December 1989.
- Seminar at CMA, INRIA-Sophia Antipolis, January 1991.

On Relating Concurrency and Nondeterminism.

- Seminar at Hewlett-Packard Laboratories, Bristol, England, October 1989.
- Conference presentation at the 7th Conference on Mathematical Foundations of Programming Semantics, Pittsburgh, PA, U.S.A., March 1991.

- Invited presentation at the Chalmers Workshop on Concurrency, Båstad, Sweden, May 1991.
- Adding Action-Refinement to a Finite Process Algebra.*
- Seminar at Hewlett-Packard Laboratories, Bristol, England, July 1990.
- Seminar at GMD, Bonn, West Germany, October 1990.
- Full Abstraction for Series-Parallel Pomsets.*
- Invited presentation at the 3rd Workshop on Concurrency and Compositionality, Goslar, Germany, March 1991.
- Conference presentation at TAPSOFT '91, Brighton, England, April 1991.
- A Theory of Testing for ACP.*
- Conference presentation at CONCUR '91, Amsterdam, The Netherlands, August 1991.
- A Static View of Localities.*
- Invited presentation at the CEDISYS Workshop in Sophia Antipolis, Antibes, France, September 1991.
- Seminar at Aalborg University, Aalborg, Denmark, October 22, 1991.
- Deriving Complete Axiom Systems from SOS Specifications.*
- Seminar at DAIMI, Århus University, Århus, Denmark, October 24, 1991.
- Seminar at Aalborg University, Aalborg, Denmark, October 25, 1991.
- Seminar at Dipartimento di Informatica, Università di Pisa, Italy, November 4, 1991.
- Turning SOS Rules into Equations.*
- Seminar at the University of Sussex, Brighton, England, December 16, 1991.
- Seminar at Dipartimento di Matematica, Università di Roma "La Sapienza", Roma, Italy, March 24, 1992.
- Checking Equations in GSOS Systems*
- Seminar at the University of Sussex, Brighton, England, October 16, 1992.
- GSOS and Finite Labelled Transition Systems*
- Invited presentation at the CONCUR2 Workshop in Aalborg, Denmark, September 20, 1993.
- Seminar at Dipartimento di Scienze dell'Informazione, Università di Roma "La Sapienza", Roma, Italy, December 13, 1993.
- Seminar at Dipartimento di Scienze dell'Informazione, Università di Bologna, Bologna, Italy, April 7, 1994.
- Deriving Complete Inference Systems for a Class of GSOS Languages Generating Regular Behaviours*
- Conference presentation at CONCUR '94, Uppsala, Sweden, 25 August 1994.
- CPO Models for a Class of GSOS Languages*
- Workshop presentation at the 6th Nordic Workshop on Programming Theory, Århus, Denmark, 19 October 1994.
- Seminar at Dipartimento di Scienze dell'Informazione, Università di Roma "La Sapienza", Roma, Italy, 11 July 1995.
- A Cook's Tour of Axiomatization Results for Kleene Algebras*
- Workshop presentation at the 2nd EXPRESS Workshop, Tarquinia, Italy, 22 June 1995.
- Seminar at Dipartimento di Matematica Pura ed Applicata, Università dell'Aquila, Italy, 5 July 1995.
- From SOS Rules to Theorems about your Favourite Language*
- Seminar at DAIMI, Århus University, Århus, Denmark, October 20, 1995.
- Axiomatizing Prefix Iteration with Silent Steps*
- Workshop presentation at the 7th Nordic Workshop on Programming Theory, Göteborg, Sweden, 1 November 1995.

Seminar at Department of Mathematics and Computer Science, Kossuth Lajos University, Debrecen, Hungary, 14 November, 1996.

An Equational Axiomatization of Observation Congruence for Prefix Iteration

Conference presentation at the Fifth International Conference on Algebraic Methodology and Software Technology, Munich, Germany, 2 July 1996.

A Menagerie of Non-Finitely Based Process Semantics over BPA: From Ready Simulation to Completed Traces*

Invited presentation at the EXPRESS Workshop in Schloss Dagstuhl, Germany, September 16, 1996.

Seminar at Department of Mathematics and Computer Science, József Attila University, Szeged, Hungary, 12 November, 1996.

A Testable Logic for Timed Automata

Invited presentation at the EXPRESS Conference in Santa Margherita Ligure, Italy, September 10, 1997.

A Meta-theory of Process Algebras based on Structural Operational Semantics.

Invited presentation at the annual meeting of the Italian chapter of the European Association for Theoretical Computer Science, Florence, 17 October 1997.

A Cook's Tour of Equational Axiomatizations for Prefix Iteration

Conference presentation at the FoSSaCS Conference in Lisbon, Portugal, March/April 1998.

The Power of Reachability Testing for Timed Automata.

Seminar at the Laboratoire Spécification et Vérification, Ecole Normale Supérieure de Cachan, Cachan, France, 7 May 1998.

Testing Hennessy-Milner Logic with Recursion.

Conference presentation at FoSSaCS'99, Amsterdam, The Netherlands, 26 March 1999.

Is Your Model Checker on Time?

Seminar at Dipartimento di Matematica Pura ed Applicata, Università dell'Aquila, Italy, 23 February 1995.

Axiomatizing Tropical Semirings

Seminar at Dipartimento di Matematica Pura ed Applicata, Università dell'Aquila, Italy, 20 February 2001.

Conference presentation at FOSSACS (ETAPS 2001), Genova, Italy, 2 April 2001.

Kleene Through the Process Algebraic Glass.

Invited talk at Fixed Points in Computer Science 2002 (FICS'2002), July 20, 2002, Copenhagen, Denmark.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 13 January 2003.

A Bird's Eye Look at Process Theory.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 19 November 2002.

Nested Semantics over Finite Trees are Equationally Hard.

Invited talk at **EXPRESS'03**, 2 September 2003, Marseille, France.

The Complexity of Checking Consistency of Pedigree Information and Related Problems.

Conference presentation at **ICTCS'03**, 13 October 2003, Bertinoro, Italy.

Seminar at **deCODE Genetics**, Reykjavík, Iceland, 27 November 2003

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 22 January 2004.

How to Write a Paper.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 24 October 2003.

How to Give at Talk.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 31 October 2003.

How to Referee a Scientific Paper.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 14 November 2003.

The Role of Hennessy's Merge in the Quest for Finite Equational Axiomatizations of Parallel Composition Modulo Bisimilarity.

Seminar at BRICS, Department of Computer Science, Aalborg University, 29 September 2004.

Seminar at the Department of Mathematics and Computer Science, University of Camerino, Italy, 11 July 2005.

Seminar at the Process Algebra Meeting, CWI, Amsterdam, 28 September 2005.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 10 March 2006.

The Joys of Bisimulation. Part 1: Games Processes Play.

Seminar at the Department of Computer Science, Reykjavík University, Reykjavík, Iceland, 31 March 2005.

Faculty-of-Science seminar at the Department of Mathematics and Computer Science, University of Camerino, Italy, 8 October 2008.

The Importance of Being Negative (with Emphasis on the Equational Logic of Processes).

Seminar delivered at the Inaugural ICE-TCS Symposium held at Reykjavik University, Reykjavík, Iceland, 30 April 2005.

The Importance of Research for a Modern University.

Seminar delivered at the Reykjavik University staff day, Reykjavík, Iceland, 17 August 2005.

Bisimilarity is not Finitely Based over BPA with Interrupt.

Seminar delivered at Eindhoven University of Technology, The Netherlands, 26 September 2005.

An Introduction to Model Checking.

Seminar delivered at ICE-TCS, Reykjavik University, Reykjavík, Iceland, 2 December 2005.

Impossibility Results in the Equational Logic of Processes.

Invited talk at the Workshop on Logic, Models and Computer Science (LMCS06) organized by the Italian Association for Logic and its Applications (AILA), Camerino, Italy, 21 April 2006.

On the Axiomatizability of Priority.

Talk at the Second ICE-TCS Symposium on Theoretical Computer Science, Reykjavík, Iceland, 31 May 2006.

A Finite Equational Base for CCS with Left Merge and Communication Merge.

ICE-TCS seminar, Reykjavík University, Iceland, 19 January 2007.

Ready to Preroder: Get your BCCSP Axiomatization for Free!

ICE-TCS seminar, Reykjavík University, Iceland, 9 February 2007.

Conference presentation at CALCO 2007, Bergen, Norway, 24 August 2007.

How Do You Like Iceland? A View from a Foreign Academic

- Rannis Conference on the “Status of Iceland in the Competition for International Talent in Research”, Reykjavík, Iceland, 4 May 2007.
- The Equational Theory of Timed CCS*
ICE-TCS seminar, Reykjavík University, Iceland, 18 May 2007.
- The Saga of the Equational Axiomatization of Parallel Composition*
Invited talk at **CONCUR 2007**, Lisbon, Portugal, 5 September 2007.
- The Meaning of Programs: A Tutorial on Operational Semantics (Parts I and II)*
ICE-TCS seminar, Reykjavík University, Iceland, 9 and 16 November 2007.
- Proving Non-finite Axiomatizability Results in Process Algebra via Reductions*
ICE-TCS seminar, Reykjavík University, Iceland, 18 January 2008.
- The Equational Theory of Prebisimilarity over Basic CCS with Divergence.*
ICE-TCS seminar, Reykjavík University, Iceland, 4 April 2008.
- Computer Science and Logic; A Match Made in Heaven.*
ICE-TCS seminar, Reykjavík University, Iceland, 3 April 2009.
Seminar at the Icelandic Mathematical Society, 1 March 2011.
- Characteristic Formulae for Fixed-Point Semantics: A General Framework.*
Conference presentation at **EXPRESS 2009**, Bologna, Italy, 5 September 2009.
Invited talk at the **MogensFest Symposium**, Århus, Denmark, October 3–4, 2009.
- A Rule Format for Unit Elements.*
ICE-TCS seminar, Reykjavík University, Iceland, 30 October 2009.
Seminar at LIX, Ecole Polytechnique, France, 27 November 2009.
MT-Lab seminar, DTU, Denmark, 4 June 2010.
- Decompositional Reasoning about the History of Parallel Processes*
ICE-TCS seminar, Reykjavík University, Iceland, 22 January 2010.
- Bisimulation and co-induction: A guided tour to their history and applications*
ICE-TCS seminar, Reykjavík University, Iceland, 19 February 2010.
- Rule Formats for Determinism and Idempotence*
MT-Lab seminar, DTU, Denmark, 28 May 2010.
Seminar, Uppsala University, Sweden, 31 May 2010.
Seminar at Department of Sistemas Informaticos y Computacion Universidad Complutense de Madrid, organized by IMI—Interdisciplinary Mathematical Institute—and NILS Mobility Project, Spain, 24 November 2010.
Seminar at IMT Lucca, Italy, 1 December 2011.
- Iceland: Glaciers, Volcanoes and ... Computer Science!*
Seminar at Department of Sistemas Informaticos y Computacion Universidad Complutense de Madrid, organized by IMI—Interdisciplinary Mathematical Institute—and NILS Mobility Project, Spain, 27 October 2010.
- Some recent non-finite axiomatizability results for basic process algebras*
ICE-TCS seminar, Reykjavík University, Iceland, 28 January 2011.
- Expressiveness: What it is and why you should care*
ICE-TCS Theory Day 2011, Reykjavík University, Iceland, 20 May 2011.
- The importance of being negative: An invitation to nonfinite axiomatizability results.*

Talk at the conference **Mathematics in Iceland 2011** organized by the Icelandic Mathematical Society, Reykholt, Iceland, 13 November 2011.

Alan Turing: The father of computer science.

Talk at the **ICE-TCS Turing Centenary Events**, Reykjavík University, Iceland, 12 January 2012.

What is a good research environment?.

Talk at a Reykjavik University Town-hall meeting, Reykjavík University, Iceland, 27 January 2012.