# Luca Cardelli – Publication list

## Books

### Technical Monographs

A.    Martín Abadi and Luca Cardelli. A Theory of Objects. Springer, 1996.

### Edited Collections

B.    Luca Cardelli, William Shih (Eds). DNA Computing and Molecular Programming. (Proceedings) Lecture Notes in Computer Science 6937, Springer, 2011.
C.    Luca Cardelli, Marcelo Fiore, Glynn Winskel (Eds.). Computation Meaning and Logic: Articles dedicated to Gordon Plotkin. Electronic Notes in Theoretical Computer Science 172, 2007.
D.    Luca Cardelli (Ed.). ECOOP 2003 - Object-Oriented Programming. (Proceedings) 17th European Conference, Lecture Notes in Computer Science 2743, Springer, 2003.
E.    Henri E. Bal, Boumediene Belkhouche, and Luca Cardelli (Eds.). Internet Programming Languages. Lecture Notes in Computer Science 1686, Springer, 1999.
F.    Luca Cardelli (Ed.). POPL'98: The 25th ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages. (Proceedings) ACM Press, 1998.

### Book Chapters

G.    Luca Cardelli, Corrado Priami. Visualization in Process Algebra Models of Biological Systems. In: Tony Hey, Stewart Tansley, Kristin Tolle, Eds. The Fourth Paradigm: Data Intensive Scientific Discovery. Creative Commons Attribution Share Alike License, pp 99-105, October 2009.
H.    Luca Cardelli. Can a Systems Biologist Fix a Tamagotchi? In: Yves Bertot, Gérard Huet, Jean-Jacques Lévy, Gordon Plotkin (Eds.). From Semantics to Computer Science - Essays in Honour of Gilles Khan, Chapter 23, pp 517-528. Cambridge University Press, 2009. ISBN 978-0-521-51825-3.
I.    Luca Cardelli. Artificial Biochemistry. In: A.Condon, D.Harel, J.N.Kok, A.Salomaa, E.Winfree (Eds.). Algorithmic Bioprocesses. Springer 2009. DOI: 10.1007/978-3-540-88869-7_22. ISBN: 978-3-540-88868-0.
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K.    Luca Cardelli. Type systems. In: Allen B. Tucker (Ed.). The Computer Science and Engineering Handbook. CRC Press, 2004. Chapter 97. Allen B. Tucker (Ed.). The Computer Science and Engineering Handbook. CRC Press, 1997, ISBN: 0-8493-2909-4. Chapter 103.
L.    Luca Cardelli. Mobility and Security. In: Friedrich L. Bauer and Ralf Steinbrggen (Eds.). Foundations of Secure Computation. Proceedings of the NATO Advanced Study Institute on Foundations of Secure Computation. IOS Press, 2000. ISBN 1 58603 015 9. pp. 3-37.
M.   Luca Cardelli. Mobile Computation. In: J. Vitek and C. Tschudin (Eds.). Mobile Object Systems - Towards the Programmable Internet. Lecture Notes in Computer Science, Vol. 1222, Springer, 1997. pp 3-6.
N.    Krishna Bharat and Luca Cardelli. Migratory Applications. In: J. Vitek and C. Tschudin E(Eds.). Mobile Object Systems - Towards the Programmable Internet. Lecture Notes in Computer Science, Vol. 1222, Springer, 1997. pp 131-148.

O.   Luca Cardelli. Extensible records in a pure calculus of subtyping. In: C.A. Gunter and J.C. Mitchell (Eds.). Theoretical Aspects of Object-Oriented Programming. MIT Press, 1994. pp 373-425.

P.   Luca Cardelli, James Donahue, Lucille Glassman, Mick Jordan, Bill Kalsow, and Greg Nelson. [Modula-3] Language definition. In: Greg Nelson (Ed.). System Programming with Modula-3. Prentice Hall, ISBN 0-13-590464-1.1991. Chapter 2, pp 11-66.

Q.   Luca Cardelli. Typeful programming. E. J. Neuhold and M. Paul, Editors. Formal Description of Programming Concepts, IFIP State of the Art Reports Series. Springer-Verlag, February 1989.

R.   Luca Cardelli. Amber. In: Guy Cousineau, Pierre-Louis Curien, and Bernard Robinet (Eds.). Combinators and Functional Programming Languages, Lecture Notes in Computer Science, Vol. 242, pp 21-70. Springer-Verlag, 1986.

S.   Luca Cardelli. The amber machine. In: Guy Cousineau, Pierre-Louis Curien, and Bernard Robinet (Eds.). Combinators and Functional Programming Languages, Lecture Notes in Computer Science, Vol. 242, pp 21-70. Springer-Verlag, 1986.

# Journal ARTICLES

1.   Luca Cardelli, Philippa Gardner. Processes in Space. Theoretical Computer Science, Volume 431, 2012, pp. 40-55. DOI: 10.1016/j.tcs.2011.12.051.

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3.   Ozan Kahramanoğulları, Luca Cardelli, Emmanuelle Caron.An Intuitive Modelling Interface for Systems Biology. International Journal of Software and Informatics, ISSN 1673-7288. 2012. (In press.)

4.   Matthew R. Lakin, David Parker, Luca Cardelli, Marta Kwiatkowska, Andrew Phillips. Design and Analysis of DNA Strand Displacement Devices using Probabilistic Model Checking.Journal of the Royal Society Interface, J R Soc Interface 2012;9 1470-1485, doi: 10.1098/rsif.2011.0800.

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6.   Neil Dalchau, Andrew Phillips, Leonard D. Goldstein, Mark Howarth, Luca Cardelli, Stephen Emmott, Tim Elliott, Joern M. Werner. A Peptide Filtering Relation Quantifies MHC Class I Peptide Optimization. PLoS Computational Biology 7(10): e1002144. doi:10.1371/journal.pcbi.1002144. 2011.

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# Refereed-Conference ARTICLES

In Computer Science many articles first appear in refereed conference proceedings. Many workshops (including all the ones listed below) are also formally refereed. Extended versions of those articles are then published in journals. These extended versions contain 'significant' new material (a requirement of the journals), are independently re-refereed, and are subject to a separate copyright; hence they are technically separate publications while often bearing the same title.

Conference articles later extended and published in journals (which are listed above) are indicated below in parentheses.

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57. Luca Cardelli, Radu Mardare. Continuous Markovian Logic. Computer Science Logic: 25th International Workshop / 20th Annual Conference of the EACSL (CSL 2011). Schloss Dagstuhl Leibniz-Zentrum für Informatik 2011. pp 144-158. ISBN (print) 978-3-939897-32-3. ISBN (electronic) 978-3-939897-32-3.
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