

Andrea Corradini

Curriculum Vitae et Studiorum

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Università di Pisa
Dipartimento di Informatica
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Birthdate and Present Position

October 21, 1960. Associated Professor at Dipartimento di Informatica, Università di Pisa.

Education

Studies in Computer Science at the University of Pisa and at the “Scuola Normale Superiore” in Pisa. Laurea degree in “Scienze dell’Informazione” (Master in Computer Science) in 1984, and Diploma degree from the Scuola Normale Superiore (1985).

Ph.D. in Computer Science at the Department of Computer Science of Pisa (1990). Supervisor: Prof. Ugo Montanari.

Present Research Interests

Specification and verification of concurrent and distributed systems; Categorical and algebraic techniques for semantics of computational formalisms; Graph rewriting systems; Algebraic and coalgebraic specification; Term rewriting systems; Semantics of concurrency; Analysis techniques for graph rewriting systems.

Professional Activities

Chair of the organizing committee of the Workshop SEGRAGRA’95 (Volterra, Italy). Member of the organizing committee of GRATRA 2000 (Joint APPLIGRAPH/GETGRATS Workshop on Graph Transformation Systems), Berlin, 25-27/3/2000. Co-Chair of the program committee of the Workshop Graph Transformation and Visual Modeling Techniques, Geneva (CH) 14-15/7/2000. Co-Chair of the International Conference on Graph Transformation, Barcelona, October 2002.

Project Experience

Team Leader of the EU FET - Global Computing Project AGILE (2000-2005) (“Architectures for Mobility”), and of the Brazilian/Italian CNPq/CNR project IQ-Mobile (“Improving the Quality of Open Systems with Code Mobility through Rigorous Development”) (2000-2004).

Former European Coordinator of the TMR Network “General Theory of Graph Transformation Systems” (GETGRATS) (1996-2001), a european project contracted by the Dipartimento di Informatica di Pisa (Prof. Montanari), in cooperation with Technische Universität Berlin (Prof. Ehrig), University of Bremen (Prof. Kreowski), University of Leiden (Prof. Rozenberg), Laboratoire Bordelais de Recherche en Informatique (Dr. Bauderon), University of Antwerpen (Prof. Janssens), University of Roma La Sapienza (Prof. Parisi-Presicce).

Manging experience in other european projects (APPLIGRAPH [Applications of Graph Transformation] (1997-2000), COMPUGRAPH II [Computing by Graph Transformations] (1993-1996), MASK [Mathematical Structures for the Semantics of Concurrency] (1993-1995).

Publications

(Co-)Author of more than 70 papers on topics including Formalisms for the specification of distributed systems; Knowledge Representation Systems; Software Engineering Development Environments; Algebraic Semantics of Structured Transition Systems and Logic Programming; Graph Grammars and their relationship with Logic Programming, Term Rewriting Systems, and Narrowing; Infinitary Extensions of Term Rewriting Systems; Encodings of Graph Rewriting with Equational Term Rewriting; Parallelism and Concurrency Aspects of Graph Rewriting Systems; Unfolding Semantics of Petri Nets and Graph Grammars; Coalgebraic Specification; Analysis Techniques for Graph Grammars.

References

International Journals

- [1] Ambriola, V., Ciancarini, P., Corradini, A., De Francesco, N., **Towards Innovative Software Engineering Environments**, in Journal of Systems and Software, 1991 (14), pp. 17–29.
- [2] Corradini, A., Montanari, U., **An Algebraic Semantics for Structured Transition Systems and its Application to Logic Programs**, in Theoretical Computer Science **103** (1992) 51–106.
- [3] Corradini, A., Rossi, F., **Hyperedge Replacement Jungle Rewriting for term-rewriting systems and logic programming**, in Theoretical Computer Science **109** (1993) 7–48.
- [4] Corradini, A., Montanari, U., Rossi, F., **An Abstract Machine for Concurrent Modular Systems: CHARM**, in Theoretical Computer Science **122** (1994) 165–200.
- [5] V. Ambriola, P. Ciancarini., A. Corradini, **Declarative specification of the architecture of a software development environment**, in Software - Practice & Experience **25**(2) (1995) 143–174.
- [6] A. Corradini, U. Montanari and F. Rossi, **Graph Processes**, Fundamenta Informaticae **26** (1996), 241–265.
- [7] R. Heckel, A. Corradini, H. Ehrig and M. Löwe, **Horizontal and Vertical Structuring of Graph Transformation Systems**, Mathematical Structures in Computer Science **6**(6) (1996).
- [8] A. Corradini and F. Gadducci, **An Algebraic Presentation of Term Graphs, via GS-Monoidal Categories**, Applied Categorical Structures, **7** (1999), 299–331.
- [9] A. Corradini and F. Gadducci, **Rewriting on Cyclic Structures: Equivalence of Operational and Categorical Descriptions**, Theoretical Informatics and Applications **33** (1999) 467–493.
- [10] A. Corradini, M. Grosse-Rhode, R. Heckel, **A Coalgebraic Representation of Structured Transition Systems**, Theoretical Computer Science **260**(1-2) (2001), 27–55.
- [11] A. Corradini and F. Gadducci, **A Functorial Semantics for Multi-Algebras and Partial Algebras, with Applications to Syntax**, Theoretical Computer Science **286**(2) (2002), 293–322.
- [12] R. Heckel, H. Ehrig, U. Wolter, and A. Corradini, **Double-Pullback Transitions and Coalgebraic Loose Semantics for Graph Transformation Systems**, Applied Categorical Structures **9**(1) (2001).
- [13] A. Corradini, R. Heckel and U. Montanari, **Compositional SOS and Beyond: a Coalgebraic View of Open Systems**, Theoretical Computer Science **280**(1-2) (2002), 163–192.
- [14] P. Baldan, A. Corradini and U. Montanari, **Contextual nets, asymmetric event structures and processes**, in Information and Computation **171**(1) (2001), 1–49.

- [15] P. Baldan, N. Busi, A. Corradini and G.M. Pinna, **Domain and Event Structure Semantics for Petri Nets with Read and Inhibitor Arcs**. In *Theoretical Computer Science* **323 (1-3)** (2004), 129-189.
- [16] P. Baldan, A. Corradini, H. Ehrig and R. Heckel. **Compositional Semantics for Open Petri Nets based on Deterministic Processes**. To appear in *Mathematical Structures in Computer Science* 15(1), 2005.

International Conferences and Workshops

- [17] Corradini, A., Degano, P., Montanari, U., **Specifying Highly Concurrent Data Structure Manipulation**, in *Computing 85: A Broad Perspective of Current Developments*, G. Bucci and G. Valle (eds.), North-Holland, 1985.
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- [19] Corradini, A., Montanari, U., **Towards a process semantics in the logic programming style**, in C. Choffrut and T. Lengauer, Eds., *Proceedings of the 7th Symposium on Theoretical Aspects of Computer Science (STACS) '90*, LNCS 415 (1990) 95–108.
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- [23] Corradini, A., Montanari, U., **An Algebra of Graphs and Graph Rewriting**. In *Proceedings of the 4th Summer Conference on Category Theory and Computer Science, CTCS '91*, LNCS 530, 1991, 236–260.
- [24] Corradini, A., Montanari, U., Rossi, F., **CHARM: Concurrency and Hiding in an Abstract Rewriting Machine**, in *Proceedings of the Int. Conf. on the Fifth Generation Computer Systems (FGCS) '92*, 887–896.
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- [26] A. Corradini, H. Ehrig, M. Löwe, U. Montanari and F. Rossi, **Note on Standard Representation of Graphs and Graph Derivations**, in *Proceedings Dagstuhl Seminar on Graph Transformations in Computer Science*, Lecture Notes in Computer Science, Vol. 776 (Springer, Berlin, 1994) 104–118. (Also as Technical Report “Bericht-Nr. 92-25”, Technische Universität Berlin, Fachbereich 20 Informatik, 1992)
- [27] A. Corradini, H. Ehrig, M. Löwe, U. Montanari and F. Rossi, **Abstract Graph Derivations in the Double Pushout Approach**, in *Proceedings Dagstuhl Seminar on Graph Transformations in Computer Science*, Lecture Notes in Computer Science, Vol. 776 (Springer, Berlin, 1994) 86–103.
- [28] A. Corradini, H. Ehrig, M. Löwe, U. Montanari and F. Rossi, **An Event Structure Semantics for Safe Graph Grammars**, in *Programming Concepts, Methods and Calculi*, IFIP Transactions A-56, North- Holland, 1994.
- [29] A. Corradini and D. Wolz, **Jungle Rewriting: an Abstract Description of a Lazy Narrowing Machine**, in *Proceedings Dagstuhl Seminar on Graph Transformations in Computer Science*, Lecture Notes in Computer Science, Vol. 776 (Springer, Berlin, 1994) 119– 137.

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- [33] A. Corradini, H. Ehrig, M. Löwe, U. Montanari and J. Padberg, **The Category of Typed Graph Grammars and their Adjunction with Categories of Derivations**, in *Proceedings Fifth International Workshop on Graph Grammars and their Applications to Computer Science*, Lecture Notes in Computer Science, Vol. 1073 (Springer, Berlin, 1996).
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<http://www.elsevier.nl/locate/entcs/volume2.html>.
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- [63] A. Corradini and F. Gadducci, **On term graphs as an adhesive category**, in *TERMGRAPH'04 Conference Proceedings*, to appear in ENTCS, Elsevier, 2005.

Book Chapters

- [64] Corradini, A., Montanari, U., **An algebraic representation of logic program computations**, in Computational Logic, *Essays in Honor of Alan Robinson*, J. Lassez and G. Plotkin (Editors), MIT Press, 1991, pp. 584–612.
- [65] Corradini, A., Ferrari, G., Montanari, U., **Transition Systems with Algebraic Structure as Models of Computations**, in I. Guessarian (Ed.), *Semantics of Systems of Concurrent Processes*, LNCS 469, 1990.
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Invited papers

- [73] A. Corradini, **Concurrent Computing: From Petri Nets to Graph Grammars**, Invited talk at the *Joint COMPUGRAPH/SEMAGRAPH Workshop on Graph Rewriting and Computation*, Volume 2 of Electronic Notes in Theoretical Computer Science, Elsevier, 1995, <http://www.elsevier.nl/locate/entcs/volume2.html>.
- [74] A. Corradini, **Concurrent Graph and Term Graph Rewriting**, Invited talk at the Conference *Concur'96*, Lecture Notes in Computer Science, Vol 1119 (Springer, Berlin, 1996), 438–464.

Conference Proceedings and Special Issues of Journals (as Editor)

- [75] A. Corradini and U. Montanari (Editors), **Proceedings of the Joint COMPUGRAPH - SEMAGRAPH Workshop on Graph Rewriting and Computation**, Volume 2 of Electronic Notes in Theoretical Computer Science, Elsevier, <http://www.elsevier.nl/locate/entcs/volume2.html>.
- [76] A. Corradini and U. Montanari (Editors), **Special Issue dedicated to SEGRAGRA'95 (Joint COMPUGRAPH/SEMAGRAPH Workshop on Graph Rewriting and Computation)**, Mathematical Structures in Computer Science - Cambridge University Press **6** (6), 1996.
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- [80] M. Bauderon and A. Corradini (Editors) **Proceedings GETGRATS Closing Workshop**, Volume 51 of Electronic Notes in Theoretical Computer Science, Elsevier, <http://www.elsevier.nl/locate/entcs/>, 2002.
- [81] A. Corradini, H. Ehrig, H.-J. Kreowski and G. Rozenberg (Editors), **Proceedings of First International Conference on Graph Transformation**, LNCS 2505, Springer, 2002.
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PhD Thesis

- [83] Corradini, A., **Una semantica algebrica per i sistemi di transizioni e per la programmazione logica**, Dissertazione presentata per il conseguimento del titolo di Dottore di Ricerca, Dicembre 1989. Anche (in inglese) **An Algebraic Semantics for Transition Systems and Logic Programming**, TD-08/90, Dipartimento di Informatica, Marzo 1990, Pisa.

Other publications

- [84] Corradini, A., **Aspetti modellistici ed implementativi di G.D.S., un formalismo per la specifica di sistemi distribuiti**, Tesi di Laurea, Dipartimento di Informatica, Università di Pisa, 1984.
- [85] Attardi, G., Corradini, A., De Cecco, M., Diomedì, S., Simi, M. **The Omega Knowledge Base Environment**, in *ESPRIT 85: Status Report of Continuing Work*, North Holland, 1986.
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- [87] A. Corradini, **On the process semantics of graph- and net-based systems**, Invited abstract, in Proceedings of Colloquium on Petri Net Technologies for Modelling Communication Based Systems, October 21–22, Berlin, 81–82.
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- [94] Ambriola, V., Ciancarini, P., Corradini, A., Danelutto, M., **Shell: A Shell Hierarchical Environment Based on a Logic Language**, Technical Report TR-31/89, Dipartimento di Informatica, Università di Pisa, Agosto 1989.
- [95] Corradini, A., Drewes, F., **(Cyclic) Term Graph Rewriting is adequate for Rational Parallel Term Rewriting**, Technical Report TR-17/97, Dipartimento di Informatica, Università di Pisa, Luglio 1997.
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