CV – Gheorghe Stefanescu

1. Nume: Stefanescu
2. Prenume: Gheorghe
3. Data şi locul naşterii: 05.10.1955
4. Cetăţenie: Romana
5. Stare civilă: casatorit
6. Studii:

Instituţia:	Universitatea din Bucuresti	Universitatea din Bucuresti	Universitatea din Bucuresti
Perioada:	Sept.1975 - Iul.1979	Sept.1979 - Iul.1980	Mar.1989 - Nov.1992
Grade sau diplome obţinute:	Licentiat in matematica, specialitatea informatica [Sef de promotie, media 10]	Master in informatica (limbaje specializate)	Doctorat in matematica, specializarea informatica

7. Titlul ştiinţific: Doctor in stiinte
8. Experienţa profesională:

Perioada:	Aug.1980 - Nov.1995	Nov.1995 - prezent	Oct.1997 - Dec.1997	Aug.2001 - Aug.2004	Feb.2008 - Feb.2009
Locul:	Bucuresti	Bucuresti	Fukuoka	Singapore	Urbana, IL, USA
Instituţia:	INCREST/ IMAR	Universitatea din Bucuresti	Kyushu University	National University of Singapore	University of Illinois at Urbana - Champaign
Funcţia:	Mat (80-82), CS (82-90), CP-III (90-95)	Conf.(1995-2000) Prof (2000-prezent)	Visiting Professor	Visiting Professor	Associate Researcher
Descriere:	Cercetare	Predare, cercetare	Predare, cercetare	Predare, cercetare	Cercetare

9. Locul de muncă actual şi funcţia: Universitatea din Bucuresti, Profesor
10. Vechime la locul de muncă actual: 20 ani
11. Brevete de invenţii: nu
12. Lucrări publicate si impact: 2 carti (Springer Verlag 2000; Technical Univ. Munchen 1994) si circa 100 articole; Scholar-Google (10/10/2015): citari 838, h-index 18
13. Membru al asociaţiilor profesionale: ACM (Association for Computing Machinery), AMS (American Mathematical Society), EATCS (European Association for Theoretical Computer Science), EACSL (European Association for Computer Science Logic), CLIB (Centru de Excelenta in Logica si Informatica, Bucuresti), ANIRO (Asociatia Nationala a Informaticienilor din Romania)
14. Limbi straine cunoscute: engleza, rusa
15. Alte competenţe: algebre de procese si de retele; programare OO, interactiva, paralela; semantica limbajelor de programare; specificatii algebrice; logici temporale şi verificare automată; metode formale în ingineria software;
16. Specializări şi calificări:

- ✓ Marktoberdorf Summer School 1990, 1994, 1996;
- ✓ Bursa DAAD (Germania) obtinuta prin competitie internationala, 1994;
- ✓ Grant al Guvernului Japonez pentru o pozitie de Visiting Professor, Department of Informatics, Kyushu University 1997;
- ✓ Visiting Professor, GKLI (Graduate School for Logics in Computer Science), Munich, 1997-1998.
- ✓ Co-director de Grant NATO obtinut prin competitie internationala, 1998-2000; Partener: Technical University Munich;
- ✓ Lecturer, Marktoberdorf Summer School 2001;
- ✓ Visiting professor la National University of Singapore 2001-2004.

17. Experienţa acumulată (inclusiv experienta manageriala) în programe/proiecte naţionale/internaţionale:

Institutia/Proiectul	**Funcţia**	**Perioada:**
International: Grant DAAD	Responsabil de proiect	1994
National: Director de proiect la Academia Romana/MCT	Responsabil de proiect	1996 - 1997
International: Co-director de proiect NATO	Co-director de proiect	1998-2000

National: GlobalComp, PN-II Parteneriate	Coordonator UB	2007-2010
International: UIUC, grant NASA, USA	Cercetator asociat	2008-2009
International: Deploy, FP7	Coordonator UB	2010-2012
Internațional: COST Action IC0701, FOVEOOS	Coordonator Romania	2008-2012

18. Selectie articole publicate

- Gheorghe Stefanescu: On Flowchart Theories. I. The Deterministic Case. J. Comput. Syst. Sci. 35(2): 163-191 (1987)
- Gheorghe Stefanescu: On Flowchart Theories: Part II. The Nondeterministic Case. Theor. Comput. Sci. 52: 307-340(1987)
- Virgil Emil Cazanescu, Gheorghe Stefanescu: A General Result on Abstract Flowchart Schemes with Applications to the Study of Accessibility, Reduction and Minimization. Theor. Comput. Sci. 99(1): 1-63 (1992)
- Algebra of Networks: Modeling simple networks, as well as complex interactive systems. In: Proof and System Reliability, Proc. 22th International Summer School - Marktoberdorf, Germany, 2001. Kluwer Academic Publishers, 49-78, 2002.
- Manfred Broy and Gheorghe Stefanescu: The algebra of stream processing functions. Theoretical Computer Science 258 (2001): 99-129
- G. Stefanescu. Network Algebra. Springer Verlag, Springer-Verlag, London Berlin Heidelberg NewYork Paris Tokyo Hong Kong Barcelona Budapest, 2000, XVI+400pp. ISBN: 1-85233-195-X

19. Experienţa în funcţii de conducere:

Institutia	**Functia**	**Perioada**
Departamentul de Informatica, UB	Director	2009-2015
Comisia de Concursuri a Senatului	Presedinte	2012-2015
Şc. Doctorala de Informatica, UB	Director	2007-2011

20. Alte menţiuni:

- ✓ Primul premiu „Grigore Moisil” al Academiei Române, acordat în anul 2002 pentru lucrări publicate în anul 2000.
- ✓ Cartea *Network Algebra* (Springer 2000) contine multe rezultate obtinute anterior de autor, incluzand descoperirea structurii de „Basic Network Algebra”, redescoperita ulterior de multi cercetatori, incluzand: R. Milner, FRS, laureat al premiului Turing.
  Un Workshop LICS este dedicat acestei teme; vezi: http://july2007.ii.uni.wroc.pl/workshops.html#tmcnaa
- ✓ Conducător de doctorat, specialitatea Informatică, din 2001.
- ✓ Seful Sectiei de Informatica, Institutul de Matematica al Academiei Romana, 1990 - 1992;
- ✓ Director al CLIB – Centrul de Logica si Informatica, Bucuresti, 2001-2006; CLIB a fost recunoscut de CNCSIS ca Centru de Excelenta la Comisia 1 - Comisia de matematica si stiintele naturii:
  vezi http://www.cncsis.ro/centre/cenexc.html
- ✓ Membru in Comisia C.N.A.T.D.C.U., 2006 - prezent
- ✓ Seful Catedrei de Fundamentele Informaticii, Univ. Bucuresti, 2000 - 2001
- ✓ Prodecan, Facultatea de Matematica si Informatica, 2008
- ✓ Director, Departamentul de Informatica, Univ. Bucuresti, 2009-prezent
- ✓ Membru referent în comisii de doctorat sau de promovare din Romania, Singapore, Germania.
- ✓ Invitaţii la universităţi şi institute de cercetare din Germania, Olanda, Japonia, Singapore, Franta, Italia, Finlanda, Ungaria, Brazilia, Tunisia, etc.
- ✓ Stagii de mai lungă durată la CWI/Univ. of Amsterdam/Utrecht Univ. (1990 - 1996), Technical Univ. Munich (1992 - 2001), Kyushu Univ. (1997), National Univ. of Singapore (2001 - 2004);
- ✓ Vizite scurte la: Univ. of Augsburg (1994), Univ. of Saarland (1992); Univ. of Pisa (2007);
- ✓ Profesor vizitator la National University of Singapore (2001 - 2004).
- ✓ Cercetator asociat la University of Illinois at Urbana-Champaign, 2008 - 2009
- ✓ Conferinţe invitate la diferite manifestari stiintifice;
- ✓ De 2 ori invitat ca „observer” la IFIP, WG 2.2 (Udine 1999; Olbenburg, 2000)

Declar pe propria răspundere că datele prezentate sunt în conformitate cu realitatea.

Octombrie 2015

Gheorghe Stefanescu

CURRICULUM VITAE

Last (partially) updated: December 2009

1 Personal Data

1. Birth Date: 5 October 1955
2. Place of Birth: Valea Mare Pravat, distinct of Arges, Romania
3. Nationality: Romanian
4. Family Status:
   (a) Married with:
   Elena Stefanescu (former name Mavru)
   chemist (B.Sc., M.Sc.)
   Birth Date: 24 August 1955
   Place of Birth: Gradistea, Calarasi, Romania
   (b) Two children:
   Andrei (born on May 31, 1986)
   Cristina (born on May 1, 1990)
5. Residence:
   Bd. Ghencea 24, Bl. C89, ap. 15
   RO-76809 Bucharest, Romania
6. Telephone (home): +40-1-746 6469
7. Office:
   Deptartment of Fundamentals of Computer Science
   Faculty of Mathematics
   University of Bucharest
   Str. Academiei 14
   RO-70109, Bucharest
   Romania
8. Fax (office): +40-1-315 6990
9. Email: gheorghe@funinf.cs.unibuc.ro
10. URL: http://funinf.cs.unibuc.ro/~gheorghe

2 University Education

1. 1989-1991:
   Ph.D. Studies in Computer Science and Mathematics
   University of Bucharest, Romania
   Degree: *Ph.D. in Mathematics, Computer Science Speciality* (1991)
   Ph.D. Thesis: *Determinism and Nondeterminism in Program Scheme Theory; Algebraic Aspects*
   Supervisor: Professor Dr. Sergiu Rudeanu

   (Note: Between 1980-1989 the PhD studies were mostly cancelled in Romania. This explains my delay in starting a PhD program.)

2. 1979-1980:
   Graduate Studies in Computer Science
   University of Bucharest, Romania
   Degree: *M.Sc. in Computer Science* (1980)
   M.Sc. Thesis: *Algebraic Trees*
   Supervisor: Lect.Dr. Virgil-Emil Cazanescu

3. 1975-1979:
   Undergraduate Studies in Computer Science and Mathematics
   University of Bucharest, Romania
   Degree: *B.Sc. in Computer Science* with **DIPLOMA OF MERIT** (1979);
   (I have got the maximal mark 10 to all exams.)
   B.Sc. Thesis: *Ordered Universal Algebras*
   Distinction: First position in the top of the series (Romanian: "Sef de Promotie")

3 Positions Held

3.1 Permanent Positions

1. Professor, Faculty of Mathematics, University of Bucharest, Bucharest, Romania (2000-present)

2. Associate Professor, Faculty of Mathematics, University of Bucharest, Bucharest, Romania (1995-2000)

3. Principal Research Scientist, Institute of Mathematics of the Romanian Academy, Bucharest, Romania (1990-1995)

4. Junior Research Scientist, Department of Mathematics, The National Institute for Scientific and Technical Creation (INCREST), Bucharest, Romania (1982-1990)

5. Programmator, Department of Mathematics, INCREST, Bucharest, Romania (1980-1982)

3.2 Visiting Positions

1. Research Associate, University of Illinois at Urbana-Champaign, from February 2008 to February 2009
2. Senior Fellow, National University of Singapore, from August 2001 to August 2004
3. Visiting Researcher, Technical University Munich, Germany, July 2001
4. Visiting Researcher, Technical University Munich, Germany, from July 1999 to August 1999
5. Visiting Researcher, Technical University Munich, Germany, from February 1999 to March 1999
6. Visiting Professor, Graduate School for Logic in Computer Science, Technical University and Ludwig Maximillian University Munich, Germany, from December 1997 to February 1998
7. Visiting Professor, Department of Informatics, Kyushu University, Fukuoka, Japan, from October 1997 to December 1997
8. Visiting Researcher, Faculty of Mathematics and Informatics, University of Augsburg, Germany, August 1997
9. Visiting Researcher, Institute of Informatics, Technical University, Munich, Germany, July 1997
10. Visiting Researcher, Programming Research Group, Faculty of Mathematics and Computer Sceince, University of Amsterdam, The Netherlands, from September 1995 to October 1995
11. Visiting Researcher, Department of Philosophy, Utrecht University, The Netherlands, from September 1994 to October 1994
12. Visiting Researcher, Institute of Informatics, Technical University Munich, Germany, from June 1994 to August 1994
13. Visiting Researcher, Programming Research Group, Faculty of Mathematics and Computer Sceince, University of Amsterdam, The Netherlands, from January 1994 to February 1994

3.3 Other Positions

1. Director, Department of Informatics, University of Bucharest, from 2009 to present
2. Director, Doctoral School on Informatics, University of Bucharest, from 2007 to present
3. Director, Master program on "Software Engeenering" University of Bucharest, from 2008 to present
4. Co-Director, Master program on "Distributed Systems and Security" University of Bucharest, from 2006 to present

5. Deputy Dean, Faculty of Mathematics and Computer Science, University of Bucharest, 2008

6. Director, CLIB - Center for Logics and Informatics, Bucharest, form 2001 to 2006 (Centru de Excelenta CNCSIS 2001-2006 , Matematica si Stiintele Naturii http://www.cncsis.ro/centre/cenexc.html)

7. Member of the Professorial Council, Faculty of Mathematics, University of Bucharest, Romania, from January 1996 on.

8. Chief of the Computer Science Section, Institute of Mathematics of the Romanian Academy, Bucharest, Romania, from March 1990 to February 1992

4 Languages

1. Mother Tongue: Romanian

2. Other Languages:
English: Good (Reading / Writing/ Speaking)
Russian: Good (Reading / Writing), Fair (Speaking)
French: Fair (Reading)

5 Domain of Interests

1. algebraic theory of networks

2. interactive systems

3. models of concurency: process algebra, Petri nets, dataflow networks

4. distributed, parallel and hybrid systems

5. programming languages; theory of programming, semantics

6. object oriented programming, UML-modelling, software engineering

7. algebraic and categorical logic

8. applications of category theory and logic to computing

6 Teaching

1. 1992-present: Department of the Fundamentals of Computer Science, University of Bucharest, Bucharest, Romania.

   (a) *Undergraduate Courses:*
   Algebraic Fundamentals of Computer Science
   Calculability
   Computer Architecture

Formal Languages and Automata Theory
Interactive Systems
Introduction to Programming
Logic and Computability
Methods for Software Development
Models of Parallel Computation
Object-oriented programming; Java language
Parallel Computation and Concurrency
Program Verification

(b) *Graduate Courses:*
Algebraic Theory of Flowcharts
Formal Methods in Software Development
Interactive Programming
Parallel and Concurrent Programming
Petri Nets and Dataflow Networks
Process Algebra
Verification of Programs and Computing Systems

2. 2001-2004: Department of Computer Science, National University of Singapore

   (a) *Undergraduate Courses:*
   CS3234: Logic and Formal Systems
   CS3211: Parallel and Concurrent Programming

3. A tutorial intorduction to *Network Algebra*, presented as a satellite event to the 6th RelMiCS Conference, The Netherlands, October 2001.

4. A short course on *Algebra of Networks*, Marktoberdorf Summer School on "Proof and System Reliability", July 25 - August 5, 2001 Marktoberdorf, Germany.

5. Graduate Course on *Special Topics in Network Algebra*, Dec.1997–Feb.1998, GKLI, (Graduate School for Logic in Computer Science), Technical University and Ludwig Maximillian University Munich, Germany.

6. Graduate Course on *Network Algebra*, Fall, 1997. Department of Informatics, Kyushu University, Fukuoka, Japan

7 Selected Supervision

7.1 Selected master students

1. Oana Bulibasa, University of Bucharest, Romania, 2009.

2. Bogdan Dobrica, University of Bucharest, Romania, 2009.

3. Cezara Dragoi, University of Bucharest, Romania, 2006.

4. Robert Mercas, University of Bucharest, Romania, 2006.

5. Sorin Constantinescu, *Control structures modeled in category theory*, University of Bucharest, Romania, 2000.

6. Cornelia Oancea, *Program verification (Floyd-Hoare logics and the "FLOW" project)*, University of Bucharest, Romania, 2000.

7. Alin Stefanescu, *Flownomial calculus: from theory to practice*, University of Bucharest, Romania, 2000. He is currently a Ph.D. student in Computer Science, GKLI (Graduate School for Logics and Computer Science), Technical University Munich, Germany

8. Crina Cimpian, *Calculi for mobile networks*, University of Bucharest, Romania, 1999.

9. Rodica Dorobat, *Visual formalisms*, University of Bucharest, Romania, 1999.

10. Victor Ispas, *Distributed systems*, University of Bucharest, Romania, 1999.

11. Alexandru Jugravu, *On spi calculus*, University of Bucharest, Romania, 1999. He is currently a Teaching Assistant at University of Bucharest, Romania.

12. Raluca Nita, *Colored Petri nets*, University of Bucharest, Romania, 1999.

13. Dumitru Potop-Butucanu, *Getting efficient C cod for Esterel programs*, University of Bucharest, Romania, 1999. He is currently a Ph.D. student in Computer Science, INRIA, Sophia-Antipolis, France.

14. Daniela Georgescu, *Linear logic and applications*, University of Bucharest, Romania, 1997. She is currently a Teaching Assistant at University of Bucharest, Romania.

15. Raluca Ionescu, *Decidability results in process algebra*, University of Bucharest, Romania, 1997.

16. Florin Dananau. *Semantics aspects of linear logic*, University of Bucharest, Romania, 1996.

7.2 Other Supervision

1. Delia Arsinte, *MapReduce framework*, B.C. Thesis, University of Bucharest, Romania, 2008. Se is currently master student in the "Distributed Computing" programm at the Free University Amsterdam, The Netherlands

2. Dumitru Ciubatii, *Interactive systems: A real-time service for "Small Screen Rendering"*, B.C. Thesis, University of Bucharest, Romania, 2008.

3. Alexandru Popa, *Interactive systems with registers and voices and Agapia programming*, B.C. Thesis, University of Bucharest, Romania, 2008. He is currently a Ph.D. student in Computer Science at Bristol University, UK.

4. Denisa Diaconescu, B.C. Thesis, University of Bucharest, Romania, 2007.

5. Dan Hernest. He is currently a Ph.D. student in Computer Science at BRISC, Aarhus University.

6. Radu Soricut, *A discrete time network algebra for the semantics of SDL*, University of Bucharest, Romania, 1998 - B.C. Thesis. He is currently a Ph.D. student in Computer Science, University of Iowa, USA.

7. Bogdan Warinschi, *Timed frames models for timed process algebra*, University of Bucharest, Romania, 1998 - B.C. Thesis. He is currently a Ph.D. student in Computer Science, University of California at San Diego, USA.

8. Mihaela Gheorghiu, *Process algebra with data*, University of Bucharest, Romania, 1997 - B.C. Thesis. She is currently a Ph.D. student in Computer Science, University of Toronto, USA.

9. Viorel Preoteasa. He is currently a Ph.D. student in Computer Science at TUCS, Turku, Finland.

10. Laurentiu Leustean.

11. Adrian Silvescu. He is currently a Ph.D. student in Computer Science, Iowa State University, USA.

12. Catalin Dima. He is currently a Ph.D. student in Computer Science at Verimag, Grenoble, France and a Teaching Assistant at University of Bucharest, Romania.

13. Grigore Rosu. He received a Ph.D. in Computer Science at University of California at San Diego, USA; he is currently a researcher at NASA.

14. Razvan Diaconescu. He received a Ph.D. in Computer Science at Oxford University, UK; he is currently a Principal Research Fellow, Insititute of Mathematics of the Romaninan Academy.

7.3 Reader of Ph.D. Thesis (selected items)

1. Adrian Groza, *Online dispute resolution using multiagent systems*, Technical University of Cluj-Napoca, 2008

2. Andrei Popescu, *Many-valued relation algebras*, University of Bucharest, 2005.

3. Carmen-Veronica Bobeanu, *Contributions to modeling and simulating discrete event systems*, University of Bucharest, 2000.

4. Octavian Catrina. *The design of complex communication protocols using formal specification in Estelle*, Politehnica University Bucharest, 1997.

8 Research

8.1 Research Grants

1. NASA contract NNL08AA23C on Monitoring IVLH Systems - 2008-2011, University of Illinois at Urbana-Champaign: Research Associate, from February 2008 to February 2009

2. COST Action IC0701, 2008-2012 Formal Verification of Object-Oriented Software - MC, Coordinator Romanian team

3. BioMat - 2007-2009 (ANCS, Nr. 2-CEx06-11-97): Noi abordari matematice in biologie. Membru in colectivul IMAR.

4. GlobalComp - 2007-2010 (CNMP, PN-II, Progam 4 Parteneriate, 11052/18.09.2007): Director, colectiv Univ.Buc.

5. PALIROM - 2007-2009 (CNMP, PN-II, Progam 5 Inovatii, 11054/25.09.2007): Membru in colectivul IMAR.

6. LINCOR - 2007-2010 (CNMP, PN-II, Progam 4 Parteneriate): Membru in colectivul IMAR.

7. CEEX-M1-C2-2380, 2007-2009: Noi abordari matematice in biologie, cu aplicatii (membru in echipa IMAR)

8. NATO Collaborative Research Grant on *Dynamic Dataflow Networks*, 1998-1999. Collaboration between University of Bucharest and Technical University Munich. (Co-chief of the Project)

9. Grant from GKLI (Graduate School for Logic in Computer Science), Technical University and Ludwig Maximillian University Munich, Germany, 1997.

10. Grant from the Japanese Government, 1997. (For a special Visiting Professor position at Kyushu University)

11. European Community ESPRIT Basic Research Action 8533, project NADA, 1997. (Invited Advisory Expert)

12. Romanian Ministry of Research and Technology Grant, for the project 2096-B9/1996 *Formal Methods in the Study of Distributed Computing. FEST Language*, from 1996 on. (Chief of the Project)

13. German Academy DAAD Grant, 1994, for the project *Stream Semantics for Distributed Computing.* (Personal Grant)

14. University of Amsterdam Grant, 1994, for the project *Formal Methods.* (Partner)

15. European Community Human Capital and Mobility Cooperation Network ERBCHRXCT930406 Grant, project EXPRESS, *Expressivity in Concurrent Languages*, 1994. (External Collaborator)

16. European Community ESPRIT Basic Research Action 8533, project NADA (1994, 1997). (External Collaborator)

17. European Community ESPRIT Basic Research Action 6454, project CONFER (1994). (External Collaborator)

18. Various grants offered by *University of Oldenburg and Ministery of Science and Culture in Hannover (2000), UNESCO (1999), Stefan Banach Center (1998), Univ. Tunis (1997), PUC Univ., Brasil (1995), Dagsthul Foundation (1994), German Academy (1991, 1994), NATO (1990, 1994)* to attent to several conferences.

19. Other grants (for short visits) offered by: *AIST-Japan, Kansai, Amagasaki Site (2002), University of Amsterdam (1992), University Bordeaux I (1992), Hungarian NFSR (1991, 1992, 1995), German Research Projects SFB 342 (1992) and 124 (1993), Romanian Academy Exchange Programme (1985 - Hungary, 1988 - Bulgaria), Utrecht University (1990).*

9 Publications

2006

1. G. Stefanescu. Interactive Systems with Registers and Voices. Fundamenta Informaticae, 73(1-2): 285-305 (2006). (ISI Journal)

2. G. Ciobanu, G. Paun and G. Stefanescu. P Transducers. New Generation Compututing, 24(2006): 1-28. (ISI Journal)

3. Dragoi, C., and G. Stefanescu. Implementation and verification of ring termination detection protocols using structured rv-programs. Annals of University of Bucharest, Mathematics-Informatics Series, 55(2006), 129-138.

4. G. Stefanescu. Towards a Floyd logic for interactive rv-systems. In: Proc. 2nd IEEE Conference on Intelligent Computer Communication and Processing (Ed. A.I. Letia). Technical University of Cluj-Napoca, September 1-2, 2006, 169-178.

5. Dragoi, C., and G. Stefanescu. Structured programming for interactive rv-systems. Institute of Mathematics of the Romanian Academy, IMAR Preprint 9/2006, Bucharest 2006.

6. Dragoi, C., and G. Stefanescu. Towards a Hoare-like logic for structured rv-programs. Institute of Mathematics of the Romanian Academy, IMAR Preprint 10/2006, Bucharest, 2006.

2007

7. Alexandru Popa, Alexandru Sofronia, Gheorghe Stefanescu: High-level Structured Interactive Programs with Registers and Voices. J. UCS 13(11)(2007): 1722-1754. (ISI Journal)

8. Cristian S. Calude, Gheorghe Stefanescu, Marius Zimand: Combinatorics and Related Areas A Collection of Papers in Honour of the 65th Birthday of Ioan Tomescu. J. UCS 13(11)(2007): 1498-1500. (ISI Journal, Editor)

9. G. Stefanescu: Tiling and interaction; 6-th Congress of Romanian Mathematicians, 2007, p162.

2008

10. Cezara Dragoi, Gheorghe Stefanescu: On Compiling Structured Interactive Programs with Registers and Voices. SOFSEM 2008, LNCS 4910, Springer, 2008: 259-270. (ISI Proc.)

11. Cezara Dragoi, Gheorghe Stefanescu: AGAPIA v0.1: A Programming Language for Interactive Systems and Its Typing System. Electr. Notes Theor. Comput. Sci. 203(3): 69-94 (2008). (DBLP)

12. Cezara Dragoi, Gheorghe Stefanescu: A sound spatio-temporal Hoare logic for the verification of structured interactive programs with registers and voices. WADT'08. Also in: CoRR abs/0810.3332: (2008). (DBLP)

13. SOFRONIA A., POPA A., STEFANESCU G., Undecidability Results for Finite Interactive Systems, Proc. 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing - SYNASC 2008, IEEE, 2008, pp. 366-369

14. Sudipto Ghoshal, Solaiappan Manimaran, Grigore Rosu, Traian Florin Serbanuta, and Gheorghe Stefanescu: Monitoring IVHM Systems using a Monitor-Oriented Programming Framework, The Sixth NASA Langley Formal Methods Workshop, NASA/CP-2008-215309, 2008: 17-19

15. Gheorghe Stefanescu and Camelia Chira, "New parallel programming language design: a bridge between brain models and multi-core/many-core computers?", in "From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence", L.A. Zadeh et.al (Eds.), Editing House of the Romanian Academy, 2008, pg. 196-210. Also in: CoRR abs/0812.2926: (2008) (DBLP)

2009

16. Alexandru Sofronia, Alexandru Popa, and Gheorghe Stefanescu, "Undecidability Results for Finite Interactive Systems", Romanian Journal of Information Science and Technology, Vol. 12, no. 2, 2009 pg. 265-279. (ISI Journal)

17. Traian Serbanuta, Gheorghe Stefanescu, Grigore Rosu: Defining and Executing P Systems with Structured Data in K. Workshop on Membrane Computing 2008, Lecture Notes in Computer Science 5391 Springer 2009: 374-393. (ISI Proc.)

18. G. Stefanescu, T. Serbanuta, C. Chira, and G. Rosu,"P-system with control nuclei", in Proceedings of 10-th WMC, 2009, pg. 561-565. (Proc. online: http://www.gcn.us.es/files/561sscr.pdf)

19. Manfred Broy, Gheorghe Stefanescu: Guest Editors' Foreword: Selected papers on "Streams and Algebra". J. Log. Algebr. Program. 78(2) (2009): 53. (ISI Journal, Editor)

20. Florin Manea, Gheorghe Stefanescu: Language-Theoretic Models of Distributed Computing A Collection of Papers in Honour of the 50th Birthday of Victor Mitrana, Romanian Journal of Information Science and Technology, Vol. 12, no. 2, pp. 121123. (ISI Journal, Editor)

Older: ...-2002

9.1 Full Papers in Refereed Journals

21. A. Baranga, V.E. Cazanescu and Gh. Stefanescu. Flow algebras. *Analele Universitatii Bucuresti, Matematica-Informatica*, **41**(2)(1992), 21–34.

22. J.A. Bergstra and Gh. Stefanescu. Bisimulation is two-way simulation. *Information Processing Letters*, **52**(1994), 285–287.

23. J.A. Bergstra and Gh. Stefanescu. Processes with multiple entries and exits modulo isomorphism and modulo bisimulation. *Fundamenta Informaticae*, **27**(1996), 37-56.

24. J.A. Bergstra and Gh. Stefanescu. Network algebra with demonic relation operators. *Revues Roumaine de Mathematiques Pures et Applique*, **43**(5-6)(1998), 503–520.

25. J.A. Bergstra, C.A. Middelburg, and Gh. Stefanescu. Network algebra for synchronous and asynchronous dataflow. *International Journal of Computer Mathematics*, **65**(1-2)(1997), 57–88 [ISI-319]

26. S.L. Bloom, Z. Esik, and Gh. Stefanescu. Notes on equational theories of relations. *Algebra Universalis*, **33**(1995), 98–126.

27. M. Broy and Gh. Stefanescu. The algebra of stream processing functions. *Theoretical Computer Science*, **258**(2001), 99-129.

28. C.S. Calude and G. Stefanescu. *Automata, Logic, and Computability: JUCS Special issue dedicated to Professor Sergiu Rudeanu Festschrift*, Journal of Universal Computer Science, Volume 6(1)(2000), 1–2.

29. V.E. Cazanescu and Gh. Stefanescu. On the category of ordered algebras. *Studii si Cercetari Matematice (Mathematical Reports)*, **34**(1982), 235–252. (in Romanian).

30. V.E. Cazanescu and Gh. Stefanescu. Some properties of pointed algebraic theories. *Studii si Cercetari Matematice (Mathematical Reports)*, **39**(1987), 107–115. (in Romanian)

31. V.E. Cazanescu and Gh. Stefanescu. A formal representation of flowchart schemes. *Analele Universitatii Bucuresti, Matematica-Informatica*, **37**(2)(1988), 33–51.

32. V.E. Cazanescu and Gh. Stefanescu. A formal representation of flowchart schemes - II. *Studii si Cercetari Matematice (Mathematical Reports)*, **41**(1989), 151–167.

33. V.E. Cazanescu and Gh. Stefanescu. Towards a new algebraic foundation of flowchart scheme theory. *Fundamenta Informaticae*, **13**(1990), 171–210.

34. V.E. Cazanescu and Gh. Stefanescu. A note on axiomatizing flowchart schemes. *Acta Cybernetica*, **9**(1990), 349–359.

35. V.E. Cazanescu and Gh. Stefanescu. Classes of finite relations as initial abstract data types - I. *Discrete Mathematics*, **90**(1991), 233–265.

36. V.E. Cazanescu and Gh. Stefanescu. A general result on abstract flowchart schemes with applications to the study of accessibility, reduction and minimization. *Theoretical Computer Science*, **99**(1992), 1–63. (Fundamental Study)

37. V.E. Cazanescu and Gh. Stefanescu. Classes of finite relations as initial abstract data types - II. *Discrete Mathematics*, **126**(1994), 47–65.

38. R. Grosu, D. Lucanu, and Gh. Stefanescu. Mixed relations as enriched semiringal categories, *Journal of Universal Computer Science*, **6**(1)(2000), 112–129.

39. Gh. Stefanescu. Characterisation of effective universal monomorphisms in the categories of universal algebras and algebraic systems. *Studii si Cercetari Matematice (Mathematical Reports)*, **34**(1982), 490–497. (in Romanian)

40. Gh. Stefanescu. On flowchart theories. Part I. The deterministic case. *Journal of Computer and Systems Sciences*, **35**(1987), 163–191.

41. Gh. Stefanescu. On flowchart theories. Part II. The nondeterministic case. *Theoretical Computer Science*, **52**(1987), 307–340.

42. Gh. Stefanescu. Feedback theories (a calculus for isomorphism classes of flowchart schemes). *Revues Roumaine de Mathematiques Pures et Applique*, **35**(1990), 73-79.

43. Gh. Stefanescu. Reaction and control I. Mixing additive and multiplicative network algebras. *Journal of Interest Group in Pure and Applied Logic*, **6**(2)(1998), 349–368. (Logic Journal of the IGPL, Oxford University Press).

44. Gh. Stefanescu. Some examples of semiringal categories. *Annals of the Bucharest University, Mathematics-Informatics Series*, **47**(1998), 103–108.

9.2 Full Papers in Refereed Proceedings or Collections

45. J.C.M. Baeten, J.A. Bergstra and Gh. Stefanescu. Process algebra with feedback. In: *Modal Logic and Process Algebra*, Proceedings of the Workshop "Three Days of Bisimulation" held at Amsterdam, The Netherlands, 1994. Eds., A. Ponse, M. de Rijke, and Y. Venema. CSLI Lecture Notes No. 53, Stanford, 1995, 13-37.

46. J.A. Bergstra and Gh. Stefanescu. Translations between flowchart schemes and process graphs. In: *Proceedings of the 9th International Conference on Fundamentals of Computation Theory* held at Szeged, Hungary, 1993, Ed. Z. Esik. Lecture Notes in Computer Science, **710**. Springer-Verlag, Berlin, 1993, pp. 152–161.

47. J.A. Bergstra and Gh. Stefanescu. Processes with multiple entries and exits. In: *Proceedings of the 10th International Conference on Fundamentals of Computation Theory FCT'95* held at Dresden, Germany, 1995. Ed. Reichel, H., Lecture Notes in Computer Science, **965**. Springer-Verlag, Berlin, 1995, 136–145.

48. L. Barnatsky, S.L. Bloom, Z. Esik, and Gh. Stefanescu. Equational theories of relations and regular sets. In: *Proceedings of the 2nd Conference on "Words, Languages and Combinatorics" held at Kyoto, Japan, 1992*, Eds. M. Ito and H. Jürgensen. World Scientific, 1994, 40–48.

49. M. Broy, G. Ciobanu, R. Grosu, and G. Stefanescu. Finite interactive systems: a unified model for objects' behaviour and their interaction. December 2001, submitted.

50. V.E. Cazanescu and Gh. Stefanescu. A calculus for flowchart schemes. In: *Abstracts of the 8th International Cogress of Logic, Methodology and Philosophy of Science* held at Moskow, USSR, 1987, Volume 1. Nauka, Moskow, 1987, 124–127.

51. V.E. Cazanescu and Gh. Stefanescu. Finite relations as initial abtract data types. In: *Proceedings of the 6th Colloquium on Computer Science* held at Iassy, Romania, 1987. Al.I. Cuza University Press, Iassy, 1987, 153–163. (in Romanian)

52. V.E. Cazanescu and Gh. Stefanescu. Towards a new algebraic foundation of flowchart scheme theory. In: *Proceedings of the 6th Colloquium on Computer Science* held at Iassy, Romania, 1987. Al.I. Cuza University Press, Iassy, 1987, 164–174. (in Romanian)

53. V.E. Cazanescu and Gh. Stefanescu. A calculus for program schemes. In: *Proceedings of the Scientific Symposium on the Celebration of 25 Anniversary of Computer Center* held at Bucharest, Romania, 1987. Bucharest Univ. Press, Bucharest, 1987, 36–41. (in Romanian)

54. V.E. Cazanescu and Gh. Stefanescu (1988). On some symmetric strict monoidal categories. In: *Summaries of the 3th East European Category Seminar held at Predela, Bulgaria, 1988*. Heigher Institute for Electrical Engineering Press, Sofia, 1988, pp. 11–12.

55. V.E. Cazanescu and Gh. Stefanescu. Feedback, iteration and repetition. In: *Proceedings of the 7th Colloquium on Computer Science held at Iassy, Romania, 1989*. Al.I. Cuza University Press, Iassy, 1989, pp. 60–69.

56. V.E. Cazanescu and Gh. Stefanescu. An axiom system for biflow using summation, (extended) feedbackation and identities. In: *Proceedings of the 7th Colloquium on Computer Science held at Iassy, Romania, 1989*. Al.I. Cuza University Press, Iassy, 1989, pp. 70–79.

57. V.E. Cazanescu and Gh. Stefanescu. Towards a new algebraic foundation of program scheme theory. In: *Actual problems of mathematical research I*. Bucharest Univ. Press, Bucharest, 1990, pp. 203–224. (in Romanian)

58. V.E. Cazanescu and Gh. Stefanescu (1993). Coping with the complexity of program schemes by algebraic tools. In: *How to cope with complexity*, Ed. C. Calude. Publishing House of the Romanian Academy, Bucharest, 1993, 52–132. (in Romanian).

59. V.E. Cazanescu and Gh. Stefanescu. Feedback, iteration and repetition. In: *Mathematical aspects of natural and formal languages*, Ed. Gh. Paun. World Scientific, 1995, 43–62.

60. R. Grosu, M. Broy, B. Selic, and Gh. Stefanescu. Towards a calculus for UML-RT specifications. In: *Proc. OOSLA'98*, Kluwer Academic Publishers, 1999.

61. R. Grosu, Gh. Stefanescu, and M. Broy. Visual formalism revised. In: Proceedings, *International Conference on Application of Concurrency to System Design (CSD' 98)*, March 23-26, 1998, Aizu-Wakamatsu, Japan. IEEE Computer Society Press, 1998, pp. 41-51.

62. Gh. Stefanescu. Hierarchical recognition. In: *Proceedings of the 3th Colloquium on Computer Science held at Iassy, Romania, 1981.* Al.I. Cuza University Press, Iassy, 1981, 240–250. (in Romanian)

63. Gh. Stefanescu. The theory of rational Σ-trees. In: *Proceedings of the 5th Colloquium on Computer Science* held at Iassy, Romania, 1985. Al.I. Cuza University Press, Iassy, 1985. (in Romanian)

64. Gh. Stefanescu. An algebraic theory of flowchart schemes. In: *Proceedings 11th Colloquium on Trees in Algebra and Programming* held at Nice, France, 1986. Ed. P. Franchi-Zannettacci, Lecture Notes in Computer Science **214**. Springer-Verlag, Berlin, 1986, 60–73.

65. Gh. Stefanescu. Flowgraphs, flownomials, behaviours. In: *Proceedings of the 9th Romanian Symposium on Computer Science* held at Iassy, Romania, November 12-13, 1993, Eds. V. Felea and G. Ciobanu. Al.I. Cuza University Press, Iassy, 1993, pp. 477-489.

66. Gh. Stefanescu. Axiomatizing mixed relations. In: *Proc. 3rd Relational Methods in Computer Science Seminar*, Hamammet, 1997. University of Science, Technology, and Medicine of Tunis, 1997, pp. 177-187.

67. Gh. Stefanescu. A short tour on FEST. In: *Proc. Current Trends in Cybernetics and Philosophy of Science, Oradea, 1996.* Europa Nova, Bucharest, 1997, pp. 327-332.

68. Gh. Stefanescu. On space-time duality in computing; imperative programming versus wave computation, In: *Abstracts, 4th Relational Methods in Computer Science Seminar*, Stefan Banach Mathematical Centre, Warsaw, 1998, pp. 197-202.

69. Gh. Stefanescu. Remarks on mixalgebras. In: *Proc. 4th International Symposium on Economic Informatics*, Bucharest, May 1999, 1045–1053. INFOREC Printing House, Bucharest, 1999.

70. G. Stefanescu. Algebra of networks: modeling simple networks as well as complex interactive systems. In: H. Schwichtenberg, R. Steinbrggen (eds.) : *Proof and System-Reliability. NATO Science Series III, Proc. International Summer School Marktoberdorf, July 24 to August 5, 2001.* Amsterdam : Kluwer Academic Publishers 2002, 49-78.

71. G. Stefanescu. "Interactive systems": - from a natural language expression, to a mathematical concept. In: *Proc. 6th International Workshop on Relational Methods in Computer Science*, Oisterwijk (near Tilburg), The Netherlands, 2001, pp 208-221; Also Springer LNCS 2002, to appear.

72. Gh. Stefanescu and Y. Kawahara. Distributive categories and mixed network algebras. In: *Proc. Joint Conference on Discrete Mathematics and Applied Mathematics*, Seta, Japan, 18-20 December, 1997, pp. 29-34.

9.3 Monographs

73. Gh. Stefanescu. *Network Algebra*, Springer-Verlag, London Berlin Heidelberg New York Paris Tokyo Hong Kong Barcelona Budapest, 2000, XVI+400pp. ISBN: 1-85233-195-X

74. Gh. Stefanescu. *Algebra of flownomials*, Institute for Informatics, Technical University Munich, 1994, 158pp.

9.4 Research Reports

75. J.C.M. Baeten, J.A. Bergstra and Gh. Stefanescu. *Process algebra with feedback*. Technical Report PRG-9419, Programming Research Group, University of Amsterdam, 1994. Also: Report 94/30, Computing Science Section, Eindhoven University of Technology, 1994.

76. J.A. Bergstra, C.A. Middelburg, and Gh. Stefanescu. *Network algebra for synchronous and asynchronous dataflow*. Technical Report PRG-9508, Programming Research Group, University of Amsterdam, 1995. Revised version of: Logic Group Preprint Series 122, Department of Philosophy, Utrecht University.

77. J.A. Bergstra and Gh. Stefanescu. *Translations between flowchart schemes and process graphs*. Preprint No. 9/1993, Institute of Mathematics of the Romanian Academy, Bucharest, 1993.

78. J.A. Bergstra and Gh. Stefanescu. *Bisimulation is two-way simulation*. Technical Report PRG-9402, Programming Research Group, University of Amsterdam, 1994.

79. J.A. Bergstra and Gh. Stefanescu. *Processes with multiple entries and exits modulo isomorphism and modulo bisimulation*. Technical Report PRG-9403, Programming Research Group, University of Amsterdam, 1994.

80. J.A. Bergstra and Gh. Stefanescu. *Network algebra for synchronous and asynchronous dataflow*. Logic Group Preprint Series 122, Department of Philosophy, Utrecht University, 1994. Also: Preprint 38/1994, Institute of Mathematics of the Romanian Academy, Bucharest.

81. J.A. Bergstra and Gh. Stefanescu. *Processes with multiple entries and exits*. Preprint 16/1995, Institute of Mathematics of the Romanian Academy, Bucharest, 1995.

82. J.A. Bergstra and Gh. Stefanescu. *Network algebra with demonic relation operators*. Technical Report PRG-9509, Programming Research Group, University of Amsterdam, 1995.

83. Bloom, S.L., Esik, Z. and Gh. Stefanescu. *Notes on equational theories of relations*. Technical Report #9113, Stevens Institute of Technology, Hoboken NJ, 1991. Also: Preprint No. 1/1992, Institute of Mathematics of the Romanian Academy, Bucharest, 1992.

84. M. Broy and Gh. Stefanescu. *The algebra of stream processing functions*. Technical Report TUM-I9620, Institute for Informatics, Technical University Munich, May 1996.

85. V.E. Cazanescu and Gh. Stefanescu. *A general result on abstract flowchart schemes with applications to the study of accessibility, reduction and minimization.* Preprint Series in Mathematics 7/1990, The National Institute for Scientific and Technical Creations, Bucharest, 1990.

86. V.E. Cazanescu and Gh. Stefanescu. *Tree models for reduced and minimal schemes.* Preprint Series in Mathematics 8/1990, The National Institute for Scientific and Technical Creations, Bucharest, 1990.

87. V.E. Cazanescu and Gh. Stefanescu. *A formal representation of flowchart schemes.* Preprint Series in Mathematics 22/1987, The National Institute for Scientific and Technical Creations, Bucharest, 1987.

88. V.E. Cazanescu and Gh. Stefanescu. *Towards a new algebraic foundation of flowchart scheme theory.* Preprint Series in Mathematics 43/1987, The National Institute for Scientific and Technical Creations, Bucharest, 1987.

89. V.E. Cazanescu and Gh. Stefanescu. *Feedback, iteration and repetition.* Preprint Series in Mathematics 42/1988. The National Institute for Scientific and Technical Creations, Bucharest, 1988.

90. V.E. Cazanescu and Gh. Stefanescu. *A formal representation of flowchart schemes II.* Preprint Series in Mathematics 60/1988, The National Institute for Scientific and Technical Creations, Bucharest, 1988.

91. V.E. Cazanescu and Gh. Stefanescu. *Classes of finite relations as initial abstract data types.* Preprint Series in Mathematics 3/1989, The National Institute for Scientific and Technical Creations, Bucharest, 1989.

92. V.E. Cazanescu and Gh. Stefanescu. *An axiom system for biflow using summation, (extended) feedbackation and identities.* Preprint Series in Mathematics 19/89, The National Institute for Scientific and Technical Creations, Bucharest, 1989.

93. V.E. Cazanescu and Gh. Stefanescu. *Classes of finite relations as initial abstract data types I.* Preprint Series in Mathematics 34/1989, The National Institute for Scientific and Technical Creations, Bucharest, 1989.

94. V.E. Cazanescu and Gh. Stefanescu. *Classes of finite relations as initial abstract data types II.* Preprint Series in Mathematics 47/1989, The National Institute for Scientific and Technical Creations, Bucharest, 1989.

95. Gh. Stefanescu. *Feedback theories (a calculus for isomorphism classes of flowchart schemes).* Preprint Series in Mathematics 24/1986, The National Institute for Scientific and Technical Creations, Bucharest, 1986.

96. Gh. Stefanescu. *The entropy as the minimal cost of a tree.* Preprint Series in Mathematics 11/1982, The National Institute for Scientific and Technical Creations, Bucharest, 1982.

97. Gh. Stefanescu. *On flowchart theories I.* Preprint Series in Mathematics 39/1984, The National Institute for Scientific and Technical Creations, Bucharest, 1984.

98. Gh. Stefanescu. *A completion of "On flowchart theories (I)"*. Preprint Series in Mathematics 7/1985, The National Institute for Scientific and Technical Creations, Bucharest, 1985.

99. Gh. Stefanescu. *On flowchart theories II*. Preprint Series in Mathematics 32/1985, The National Institute for Scientific and Technical Creations, Bucharest, 1985.

100. Gh. Stefanescu. *On flowchart theories I (revised version)*. Preprint Series in Mathematics 52/1986, The National Institute for Scientific and Technical Creations, Bucharest, 1986.

101. Gh. Stefanescu. *Reaction and control I. Mixing additive and multiplicative network algebras*. Preprint No. 33/1996, Institute of Mathematics of the Romanian Academy, Bucharest, 1996.

102. Gh. Stefanescu. *Axiomatising mixed relations (preliminary results)*. Preprint No. 37/1996, Institute of Mathematics of the Romanian Academy, Bucharest, 1996.

103. Gh. Stefanescu. *A short tour on FEST*. Preprint No. 38/1996, Institute of Mathematics of the Romanian Academy, Bucharest, 1996.

9.5 Refereed Abstracts

104. Gh. Stefanescu. Determinism and nondeterminism in program scheme theory: algebraic aspects. *Bulletin of the EATCS*, **46**(1992), 376–379.

105. Gh. Stefanescu. Flownomials: regular expressions for distributed computation. In: *Relational Methods in Computer Science*, Eds. C. Brink and G. Schmidt. Dagstuhl-Seminar-Report 80, Saarbrucken, 1994.

106. G. Stefanescu. Kleene algebra of two-dimensional words: a model for interactive systems. In: *Aplications of Kleene Algebra*, Eds. R. Backhouse, D. Kozen, and B. Möller. Dagstuhl-Seminar-Report 01081, Saarbrucken, 2001.

9.6 Proceedings Editor

Editor Reviste:

1. J. Universal Computer Science (ISI)
2. International Journal of Software Architecture
3. Charpatian Journal Mathematics (ISI, CNCSIS/A)
4. Analale Univ. Bucuresti (CNCSIS)

Editor Conferinte:

1. Tomescu'65 (01.11.2007): Combinatorics and Related Areas - An Workshop in Honour of the 65th Birthday of Ioan Tomescu (co-chief)
2. JLAP special issue on Streams and Algebra (March 2008) (co-chief)

3. TMCNAA 2007: LICS-2007 Workshop on Traced Monoidal Categories, Network Algebras, and Applications (co-chief)

4. ICCP 2007: IEEE 3rd International Conference on Intelligent Computer Communication and Processing (PC member)

5. ICCGI 2007: The Second International Multi-Conference on Computing in the Global Information Technology (PC member)

1. C.S. Calude, G. Stefanescu (eds.). *Automata, Logic, and Computability.* Special issue dedicated to Professor Sergiu Rudeanu Festschrift, Journal of Universal Computer Science, Volume 6(1), January, 2000.

2. G. Stefanescu (ed.). *Proceedings of FCT'99 Workshop on Distributed Systems*, Electronic Notes in Theoretical Computer Science, Volume 28, 2000. (ISBN: 0444507957)

10 Invited talks, etc.

To be completed, rearanged on subsections, etc.

1. Gh. Stefanescu. *Using mixed network algebra to study parallel programs.* 2nd International Conference on Applied Mathematics, North University of Baia Mare, Romania, October 19-21, 2000.

2. Gh. Stefanescu. *Using space-time duality to structure interacting systems.* Anual Meeting, IFIP Working Group 2.2, Oldenburg, Germany, September 25-29, 2000.

3. Gh. Stefanescu. *Mixed network algebra: Towards an algebraic calculus for software systems.* Anual Meeting, IFIP Working Group 2.2, Udine, Italy, June 27 - July 1, 1999.

4. Gh. Stefanescu. *Plans, mixalgebras, and distributive categories.* HADIB'98 - Hidden Algebra Day in Bucharest, University of Bucharest, Bucharest, December 17th, 1998.

5. Gh. Stefanescu. *On space-time duality in computing; imperative programming versus wave computation.* 4th Seminar on "Relational Methods in ComputerScience" RelMiCS'98, S. Banach Inetrnational Mathematical Centre, Warsaw, Poland, September 14-20, 1998

6. Gh. Stefanescu. Celebrating Session dedicated to Grigore C. Moisil, Bucharest, Romania, June 19, 1998

7. Gh. Stefanescu. Join Conference on Discrete Mathematics and Applied Mathematics, Seta, Japan, December 18-20, 1997

8. Gh. Stefanescu. SLACS'97 - Symbolic Logics and Computer Science, Fukuoka, Japan, October 29-31, 1997

9. Gh. Stefanescu. Mini-symposium on Algebraic Methods in Computer Science, Bucharest, Romania, Sept. 26, 1997

10. Gh. Stefanescu. 1st Romanian-Japanesse Workshop on Algebraic Specifications, Sinaia, Romania, August 24-28, 1997

11. Gh. Stefanescu. International Summer School on "Computational Logic", Marktoberdorf, Germany, July 29 - August 10, 1997

12. Gh. Stefanescu. Stern Symposium, Amsterdam, The Netherlands, February 27, 1997

13. Gh. Stefanescu. 3nd Seminar on "Relational Methods in ComputerScience" RelMiCS'97, Hammamet, Tunis, January 6-10, 1997

14. Gh. Stefanescu. International Congress on "Actual Trends in Cybernetics and Philosophy of Science", Oradea, Romania, October 17-19, 1996

15. Gh. Stefanescu. 10th Romanian Symposium on Computer Science, ROSYCS'93 Iassy, Romania, May, 1996

16. Gh. Stefanescu. 10th International Conference on "Fundamentals of Computation Theory" FCT'95, Dresden, Germany, August 22-25, 1995

17. Gh. Stefanescu. 2nd Seminar on "Relational Methods in ComputerScience" RelMiCS'95, Parati, Brasil, July 10-14, 1995

18. Gh. Stefanescu. International Summer School on "Deductive Program Design", Marktoberdorf, Germany, July 26 - August 7, 1994

19. Gh. Stefanescu. (1st) Dagstuhl Seminar on "Relational Methods in Computer Science" RelMiCS'94, Schloss Dagstuhl, Germany, January 17-21, 1994

20. Gh. Stefanescu. 9th International Conference on "Fundamentals of Computation Theory" FCT'93, Szeged, Hungary, August 21-25, 1993

21. Gh. Stefanescu. 9th Romanian Symposium on Computer Science, ROSYCS'93 Iassy, Romania, Nov.12-13, 1993

22. Gh. Stefanescu. Symposium on Logic and Computer Science: "Salodays in Formal Language Theory", Bucharest, May 18-20, 1992

23. Gh. Stefanescu. 17th International Workshop on "Graph-Theoretic Concepts in Computer Sceince" WG'91 Fishbachau, Germany, June 17-19, 1991

24. Gh. Stefanescu. International Summer School on Programming and Mathematical Method, Marktoberdorf, Germany, July 25 – August 5, 1990

25. Gh. Stefanescu. 7th National Colloquium on Computer Science, INFO-IASI'89 Iassy, Romania, Oct. 1989

26. Gh. Stefanescu. 3rd "East European Category Seminar" EECS'88 Predela, Bulgaria, Feb. 28th - March 5th, 1988

27. Gh. Stefanescu. 6th National Colloquium on Computer Science, INFO-IASI'87 Iassy, Romania, Oct. 1987

28. Gh. Stefanescu. Celebreting Session on "25 Annversary of Computer Center, University of Bucharest" Bucharest, 1987

29. Gh. Stefanescu. 5th National Conference on Algebra Craiova, Romania, 1987

30. Gh. Stefanescu. 8th International Congress of "Logic, Philosophy and Methodology of Science" LPMS'87 Moscow, USSR, 1987

31. Gh. Stefanescu. Session "How to cope with complexity" at the Romanian Academy Bucharest, Romanaia, 19 iunie 1987

32. Gh. Stefanescu. Talk at the Faculty of Mathematics, University of Bucharest Bucharest, Oct. 1986

33. Gh. Stefanescu. 11th Colloquium on "Trees in Algebra and Programming", CAAP'86 Nice, France, March 24-26, 1986

34. Gh. Stefanescu. 5th National Colloquium on Computer Science, INFO-IASI'85 Iassy, Romania, Oct. 1985

35. Gh. Stefanescu. International Conference on "Operator Algebras and Ergodic Theory" OATE'83 Busteni, Romania, 1983

36. Gh. Stefanescu. 3rd National Colloquium on Computer Science, INFO-IASI'81 Iassy, Romania, Oct. 1981

37. Gh. Stefanescu. International Conference on Probabilities Brasov, Romania, Septembrie, 1981

11 Conference and Workshop Organization

11.1 Committee Programme

1. ICALP 2002 (International Colloquium on Automata, Languages and Programming), Malaga, Spain, 2002

2. *2nd International Conference on Applied Mathematics*, North University of Baia Mare, October 19-21, 2000

3. *Workshop on Distributed Computing*, Satellite workshop of the 12th FCT (Fundamantals of Computer Science Conference), Iassy, Romania, September 2-3, 1999

4. *RELMICS'97, 3rd International Seminar on Relational Methods in Computer Science*, Hammamet, Tunisia, January 1997

5. *International Congress on "Actual Trends in Cybernetics and Philosophy of Science"*, Oradea, Romania, October, 1996

6. *ROSYCS'96, 10th Romanian Symposium on Computer Science*, Iassy, Romania, May 1996

11.2 Research Seminars

1. *Distributed Systems*, University of Bucharest, Romania, from 2000
2. *L&C: Logic and Computation*, University of Bucharest, Romania, from 1997 to 1999
3. *Algebraic Methods in Computer Science*, University of Bucharest, Romania, from 1994 to 1996 (jointly with V.E. Cazanescu and R. Diaconescu)
4. *Theoretical Computer Science*, University of Bucharest, Romania, from 1986–1989 (jointly with V.E. Cazanescu)

12 External Evaluator

1. Referee for various journals, e.g.:
   Information and Computation
   Theoretical Computer Science
   International Journal for Foundations of Computar Science
   Acta Informatica
   Acta Cybernetica
   Information Sciences
   Mathematical reports / Studii si Carcetari Matematice (Bucharest)
   Analele Universitatii din Bucuresti, Matematica
2. Referee for several conferences (e.g.: WDS'99 FCT'99 CONCUR'96,'00 ACP'95 HOA'95) various Romanian conferences (ROSYCS, INFO-IASI, etc.)

13 Professional Societies

1. *European Association for Theoretical Computer Sceince*, from 1990 on.
2. *European Association for Computer Science Logic*, from 1994 on.
3. *American Mathematical Society*, from 1994 on.

14 Special Recognition

1. Included in: *International Directory of Distinguished Leadership*, Ninth Edition, American Bibliographic Institute, 2000.

15 Selected Quatations

2005-2009

Stefanescu: Network algebra

1. Connector colouring I: Synchronisation and context dependency psu.edu [PDF] D Clarke, D Costa, F Arbab - Science of Computer Programming, 2007 - Elsevier

2. A categorical model for the geometry of interaction psu.edu [PDF] E Haghverdi, P Scott - Theoretical Computer Science, 2006 - Elsevier

3. A basic algebra of stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Theoretical Computer Science, 2006 - Elsevier

4. Transforming stream processing functions into state transition machines W Dosch, A Stumpel - Lecture Notes in Computer Science, 2006 - Springer

5. A survey of graphical languages for monoidal categories arxiv.org [PDF] P Selinger - New Structures for Physics, 2009 - arxiv.org

6. On traced monoidal closed categories psu.edu [PDF] M Hasegawa - Mathematical Structures in Computer , 2008 - Cambridge Univ Press

7. Complete axioms for stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Lecture notes in computer science, 2005 - Springer

8. Control-flow semantics for assembly-level data-flow graphs psu.edu [PDF] W Kahl, CK Anand, J Carette - Lecture Notes in Computer Science, 2006 - Springer

9. From Geometry of Interaction to Denotational Semantics psu.edu [PDF] E Haghverdi, P Scott - Electronic Notes in Theoretical Computer Science, 2005 - Elsevier

10. Petri nets, event structures and algebra imsc.res.in [PS] K Lodaya - SERIES IN MACHINE PERCEPTION AND ARTIFICIAL , 2006 - imsc.res.in

11. Causal semantics for the algebra of connectors imag.fr [PDF] S Bliudze, J Sifakis - Formal Methods for Components and Objects, 2008 - Springer

12. Code Graph Transformations for Verifiable Generation of SIMD-Parallel Assembly CK Anand, W Kahl - of Graph Transformations with Industrial Relevance, 2008 - Springer

13. Designing combinational circuits with list homomorphisms W Dosch - Journal of Computational Methods in Science and , 2005 - IOS Press

14. FIRST ANNUAL RESEARCH REPORT ON SANE SOFTWARE aether-ist.org [PDF] AS UH, JP VTT, A Petrounias - aether-ist.org

15. Semantics and type theory of S-NetDRAFT mu-luebeck.de [PDF] A Shafarenko, C Grelck, SB Scholz - isp.mu-luebeck.de

16. Synthesising and Verifying Multi-Core Parallelism in Categories of Nested Code mcmaster.ca [PDF] CK Anand, W Kahl - Process Algebra for Parallel and , 2008 - books.google.com

17. S-Net: A Typed Stream Processing LanguageDraft sac-home.org [PDF] C Grelck, SB Scholz, A Shafarenko - sac-home.org

18. Report on S-Net snet-home.org [PDF] ATSP Language - snet-home.org

19. A Term-Graph Syntax for Algebras over Multisets unipi.it [PDF] F Gadducci - Recent Trends in Algebraic Development Techniques, 2009 - Springer

20. Fixed Point Theory Z sik - Handbook of Weighted Automata, 2009 - Springer

21. S-Net Language Report snet-home.org [PDF] F Penczek, C Grelck, H Cai, J Julku, P Hlzenspies, SB - snet-home.org

22. An algebra of hybrid systems uni-augsburg.de [PDF] P Hfner, B Mller - Journal of Logic and Algebraic Programming, 2009 - Elsevier

23. A Note on an Old-Fashioned Algebra for (Disconnected) Graphs F Gadducci - Electronic Notes in Theoretical Computer Science, 2009 - Elsevier

24. Geometry of Interaction and Dynamics of Proof Reduction: a tutorial. Haghverdi E., Scott P., in New Structures for Physics, B. Coecke (ed). Lecture Notes in Physics, Springer-Verlag, 2010, pp. 339-397.

Broy-Stefanescu: The algebra of stream processing functions

25. Reo: a channel-based coordination model for component composition psu.edu [PDF] F Arbab - Mathematical Structures in Computer Science, 2004 - Cambridge Univ Press

26. Abstract behavior types: A foundation model for components and their composition kfupm.edu.sa [PDF] F Arbab - Science of Computer Programming, 2005 - Elsevier

27. CPO semantics of timed interactive actor networks berkeley.edu [PDF] X Liu, EA Lee - Theoretical Computer Science, 2008 - Elsevier

28. Causality interfaces and compositional causality analysis berkeley.edu [PDF] EA Lee, H Zheng, Y Zhou - Foundations of Interface , 2005 - ptolemy.eecs.berkeley.edu

29. Causality interfaces for actor networks berkeley.edu [PDF] Y Zhou, EA Lee - 2008 - portal.acm.org

30. Coordination for component composition psu.edu [PDF] F Arbab - Electronic Notes in Theoretical Computer Science, 2006 - Elsevier

31. A domain-specific language for cryptographic protocols based on streams jurjens.de [PDF] J Jrjens - Journal of Logic and Algebraic Programming, 2009 - Elsevier

32. A formally grounded software specification method psu.edu [PDF] C Choppy, G Reggio - Journal of Logic and Algebraic Programming, 2006 - Elsevier

33. A Gentle Introduction to S-Net: Typed Stream Processing and Declarative uni-luebeck.de [PDF] C Grelck, SB Scholz, A Shafarenko, CR - Parallel Processing , 2008 - isp.uni-luebeck.de

34. The Semantics of Dataflow with Firing berkeley.edu [PDF] EA Lee, E Matsikoudis - Essays in memory of Gilles Kahn , 2008 - chess.eecs.berkeley.edu

35. Concurrent semantics without the notions of state or state transitions psu.edu [PDF] EA Lee - Lecture Notes in Computer Science, 2006 - Springer

36. A formal framework for interactive agents stanford.edu [PDF] CL Talcott - Electronic Notes in Theoretical Computer Science, 2008 - Elsevier

37. Interface theories for causality analysis in actor networks berkeley.edu [PDF] Y Zhou - eecs.berkeley.edu

38. The Mechanical Generation of Fault Trees for Reactive Systems via manchester.ac.uk [PDF] R Banach, M Bozzano - 2007 - cs.manchester.ac.uk

39. Streaming networks for coordinating data-parallel programs mu-luebeck.de [PDF] C Grelck, S Scholz, A Shafarenko - Lecture Notes in Computer Science, 2007 - Springer

40. A formally grounded software specification method unige.it [PDF] CCG Reggiob - Journal of Logic and Algebraic Programming, 2006 - disi.unige.it

41. FIRST ANNUAL RESEARCH REPORT ON SANE SOFTWARE aether-ist.org [PDF] AS UH, JP VTT, A Petrounias - aether-ist.org

42. Semantics and type theory of S-NetDRAFT mu-luebeck.de [PDF] A Shafarenko, C Grelck, SB Scholz - isp.mu-luebeck.de

43. Channel-based Coordination Models and Languages for Component uni-salzburg.at [PDF] P Derler - cs.uni-salzburg.at

44. Flexible in-vehicle stream processing with distributed automotive control tu-berlin.de [PDF] H Schweppe, A Zimmermann, D - Embedded Systems, 2008 , 2008 - user.cs.tu-berlin.de

45. S-Net: A Declarative Approach towards Streaming Networks of mu-luebeck.de [PDF] C Grelck, SB Scholz, A Shafarenko - isp.mu-luebeck.de

46. S-Net: A Typed Stream Processing LanguageDraft sac-home.org [PDF] C Grelck, SB Scholz, A Shafarenko - sac-home.org

47. Concurrency engineering psu.edu [PDF] C Jesshope, A Shafarenko - Conference, 2008. ACSAC 2008. 13th Asia- , 2008 - Citeseer

48. Report on S-Net snet-home.org [PDF] ATSP Language - snet-home.org

49. S-Net Language Report snet-home.org [PDF] F Penczek, C Grelck, H Cai, J Julku, P Hlzenspies, SB - snet-home.org

50. Streaming Networks for Coordinating Data-Parallel Programs (Position Statement) A Shafarenko - Lecture Notes in Computer Science, 2006 - Springer

Cazanescu-Stefanescu: Towards a new algebraic foundation of flowchart scheme theory

51. A basic algebra of stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Theoretical Computer Science, 2006 - Elsevier

52. A survey of graphical languages for monoidal categories arxiv.org [PDF] P Selinger - New Structures for Physics, 2009 - arxiv.org

53. Complete axioms for stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Lecture notes in computer science, 2005 - Springer

54. Normal forms for stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari, 2005 - Citeseer

Stefanescu: On flowchart theories- part I. The deterministic case

55. A survey of graphical languages for monoidal categories arxiv.org [PDF] P Selinger - New Structures for Physics, 2009 - arxiv.org

Bergstra-Middelburg-Stefanescu: Network algebra for asynchronous dataflow

56. A basic algebra of stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Theoretical Computer Science, 2006 - Elsevier

57. Complete axioms for stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari - Lecture notes in computer science, 2005 - Springer

58. Normal forms for stateless connectors psu.edu [PDF] R Bruni, I Lanese, U Montanari, 2005 - Citeseer

59. Calculating and modeling common parts of software product lines tum.de [PDF] A Gruler, M Leucker, K Scheidemann - Proceedings of the 2008 12th , 2008 - in.tum.de

Cazanescu-Stefanescu: A general result on abstract flowchart schemes with applications to the study

60. Graph rewriting for the -calculus unifi.it [PDF] F Gadducci - Mathematical Structures in Computer Science, 2007 - Cambridge Univ Press

61. Graph processes with fusions: concurrency by colimits, again F Gadducci, U Montanari - Formal Methods (Ehrig Festschrift) - Springer, 2005

Stefanescu: Interactive systems with registers and voices

62. On graph (ic) encodings psu.edu [PDF] R Bruni, I Lanese - Graph Transformations and Process Algebras for , 2005 - Citeseer

Stefanescu: An algebraic theory of flowchart schemes

63. A survey of graphical languages for monoidal categories arxiv.org [PDF] P Selinger - New Structures for Physics, 2009 - arxiv.org

64. A Gentle Introduction to S-Net: Typed Stream Processing and Declarative uni-luebeck.de [PDF] C Grelck, SB Scholz, A Shafarenko, CR - Parallel Processing , 2008 - isp.uni-luebeck.de

65. FIRST ANNUAL RESEARCH REPORT ON SANE SOFTWARE aether-ist.org [PDF] AS UH, JP VTT, A Petrounias - aether-ist.org

66. Semantics and type theory of S-NetDRAFT mu-luebeck.de [PDF] A Shafarenko, C Grelck, SB Scholz - isp.mu-luebeck.de

67. S-Net: A Declarative Approach towards Streaming Networks of mu-luebeck.de [PDF] C Grelck, SB Scholz, A Shafarenko - isp.mu-luebeck.de

68. S-Net: A Typed Stream Processing LanguageDraft sac-home.org [PDF] C Grelck, SB Scholz, A Shafarenko - sac-home.org

69. Concurrency engineering psu.edu [PDF] C Jesshope, A Shafarenko - Conference, 2008. ACSAC 2008. 13th Asia- , 2008 - Citeseer

70. Report on S-Net snet-home.org [PDF] ATSP Language, 2007 - snet-home.org

71. S-Net Language Report snet-home.org [PDF] F Penczek, C Grelck, H Cai, J Julku, P Hlzenspies, SB 2009 - snet-home.org

Cazanescu-Stefanescu: Feedback, iteration and repetition

72. A survey of graphical languages for monoidal categories arxiv.org [PDF] P Selinger - New Structures for Physics, 2009 - arxiv.org

73. The Iterating Artifact as a Fundamental Construct in Information System cgu.edu [PDF] K Lyytinen, 2006 - ncl.cgu.edu

Cazanescu-Stefanescu: Classes of finite relations as initial abstract data types I

74. A Term-Graph Syntax for Algebras over Multisets unipi.it [PDF] F Gadducci - Recent Trends in Algebraic Development Techniques, 2009 - Springer

Stefanescu: Algebra of flownomials. Part 1: Binary flownomials

75. Control-flow semantics for assembly-level data-flow graphs psu.edu [PDF] W Kahl, CK Anand, J Carette - Lecture Notes in Computer Science, 2006 - Springer

Serbanuta-Stefanescu-Rosu: Defining and Executing P-systems with Structured Data in K

76. Strategy-Based Rewrite Semantics for Membrane Systems Preserves uibk.ac.at [PDF] D Lucanu - WRS 2008 - cl-informatik.uibk.ac.at

77. Rewriting Logic Semantics of a Plan Execution Language nasa.gov [PDF] G Dowek, CA Muoz, C Rocha 2009 - shemesh.larc.nasa.gov

78. Strategy-Based Rewrite Semantics for Membrane Systems Preserves Maximal D Lucanu - Electronic Notes in Theoretical Computer Science, 2009 - Elsevier

Stefanescu: Interactive Systems: From Folklore to Mathematics

79. A High-level Programming Paradigm for Java-based Parallel and uibk.ac.at [PDF] A Jugravu - 2005 - dps.uibk.ac.at

Ghoshal: Monitoring IVHM Systems Using a Monitor-Oriented Programming Framework

80. Predictable Runtime Monitoring H Zhu, MB Dwyer, S Goddard - Proceedings of the , 2009 - doi.ieeecomputersociety.org

Older: ...-2004

1. H. Barendregt, H. Wupper, H. Mulder. *Computable Processes.* Technical Report, Catholic University Nijmegen, 1994. Cite: 8.1.40; 8.1.41

2. M. Bartha. Foundations of a theory of synchronous systems. *Theoretical Computer Science* 100(1992) 325–346. Cite: 8.1.40

3. M. Bartha: An algebraic model of synchronous systems. *Information and Computation* 97(1992) 97–131. Cite: 8.4.89; 8.1.40; 8.141

4. J.A. Bergstra, M.E. Loots. *Projection semantics for flow charts.* Technical Report 5, Faculty of Philosophy, Tilburg University 1998. Also: 3rd Chapter of Jan Bergstra's material for Marktoberdorf Summer School, 1998. Cite: 3.1.25, 3.1.31; 3.1.32; 3.3.74

5. J.A. Bergstra, C.A. Middelburg, R. Soricut. *Discrete time network algebra for the semantic foundation of SDL.* UNU/IIST Report 98, Oct. 1997. Cite: 8.4.76, 8.1.25, 8.1.42

6. L. Bernatsky, Z. Esik. Semantics of flowchart programs and the free Conway theories. *Theoretical Informatics and Applications (RAIRO, Informatique Theorique et Applications)* 32(1998) 35–78. Cite: 8.1.33; 8.1.40

7. S. Blom. A complete proof system for nested term graphs. In: *Proc. HOA'95*, Springer LNCS 1074, 1995, 74–89. Cite: 8.3.74

8. S.L. Bloom. The equational logic of iterative processes. In: *Proceedings FCT'89*, LNCS 380(1989) 47–57. Cite: 8.1.40

9. S.L. Bloom and Z. Esik. Varieties of iteration theories. *SIAM Journal on Computing* 17,5(1988) 939–966. Cite: 8.1.40

10. S.L. Bloom and Z. Esik. Equational logic of circular data type specification. In: *Theoretical Computer Science* 63(1989) 303–331. Cite: 8.1.40

11. S.L. Bloom, Z. Esik. Matrix and matricial iteration theories, Part I. Technical Reports #9001, Stevens Institute of Technology, Hoboken, NJ, 1990. Cite: 8.4.89; 8.1.40; 8.1.41

12. S.L. Bloom, Z. Esik. Matrix and matricial iteration theories, Part II. Technical Reports #9002, Stevens Institute of Technology, Hoboken, NJ, 1990. Cite: ??

13. S.L. Bloom, Z. Esik. *Iteration algebras.* Technical Reports #9009, Stevens Institute of Technology, Hoboken, NJ, 1990. Cite: 8.4.87?; 8.1.40; 8.1.41

14. S.L. Bloom, Z. Esik. *Matrix and matricial iteration theories of regular sets.* Technical Report #9013, Stevens Institute of Technology, Hoboken, NJ, 1990. Cite: 8.4.89; 8.1.41

15. S.L. Bloom, Z. Esik. Program corectness and matricial iteration theories. In: *Proceedings MFPS'90*, LNCS 598, 457-476. Cite: ??

16. S.L. Bloom, Z. Esik. *Program corectness and matricial iteration theories.* Report #9012, Stevens Institute of Technology, Hoboken, NJ, 1990. Cite: 8.1.40; 8.1.41

17. S.L. Bloom and Z. Esik. Floyd-Hoare logic in iteration theories. *Journal of the Assoc. Comp. Mach.* 38,4(1991) 887–934. Cite: 8.4.89; 8.1.40; 8.1.41

18. S.L. Bloom, Z. Esik. Matrix and matricial iteration theories of regular sets. *Mathematical Structures in Computer Science* 2(1992). Cite: ??

19. S.L. Bloom, Z. Esik. Iteration algebras. *International Journal of the Foundation of Computer Sceince* 2(1992) ??–302. Cite: 8.4.89; 8.1.40; 8.1.41

20. S.L.Bloom, Z. Esik. *Iteration theories: the equational logic of iterative processes.* EATCS Monographs in Theoretical Computer Science, Springer Verlag, 1993. Cite: 8.4.89; 8.1.33; 8.1.40; 8.1.41

21. S.L. Bloom, Z. Esik. Matrix and matricial iteration theories, Part I & II. *Journal of Computer and System Sciences*, 1993. Cite: ??

22. S.L. Bloom, Z. Esik. Some quasy-varieties of iteration theories. In: *Proc. MFPS'94*, Springer LNCS 802, 1994, 378–409. Cite: 8.1.33; 8.1.40; 8.1.41

23. S.L. Bloom, Z. Esik. The equational logic of fixed points. *Theoretical Computer Science* 179(1997) 1–60. Cite: 8.4.80; 8.4.89; 8.1.33; 8.1.36; 8.1.40; 8.1.41; 8.1.42

24. S.L. Bloom, Z. Esik, D. Taubner. Iteration theories of synchronization trees, *Information and Computation* 102(1993), 1–55. Cite: 8.4.89; 8.1.41

25. R. Bruni. Tile logic for synchronized rewriting of concurrent systems. PhD Thesis TD-1/99, Departimento di Informatics, Univerista di Pisa, March 1999. Cite: 8.1.33; 8.3.74

26. R. Bruni, F. Gadducci, U. Montanari. Normal forms for partitions and relations. In: *Proc. WADT'98 (13th Workshop on Recent Trends in Algebraic Specification Techniques)*. LNCS, 1999. Cite: 3.1.80; 3.1.35; 3.1.33; 3.1.41; 3.1.74

27. A. Corradini, F. Gadducci. Rewriting on cyclic structures: equivalence between the operational and the categorical description. *Theoretical Informatics and Applications (RAIRO, Informatique Theorique et Applications)*, 1999. Cite: 8.1.40; 8.3.74 8.1.33; 8.1.36; 8.2.59

28. B. Courcelle. Recursive applicative program schemes. In: *Handbook of Theoretical Computer Sceince*, North Holland, 1990. 459–492. Cite: 8.1.40; 8.1.41

29. Z. Esik. Iteration theories, *Summaries EECS'86, 1st East European Category Seminar Summaries*, Predela, Bulgaria, 1986. Cite: 8.4.97; 8.4.99

30. Z. Esik: A note on the axiomatization of iteration theories) *Acta Cybernetica* 9(1990) 375–384. Cite: 8.4.89; 8.1.40; 8.1.41

31. Z. Esik. Completeness of Park induction. *Theoretical Computer Science* 177(1997) 217-283. Cite: ??

32. F. Gadducci, U. Montanari. *The tile model*. Technical Report TR-96-27, Department of Computer Science, University of Pisa, 1996. Cite: 8.1.33

33. J. Gibbons. An intial-algebra approach to directed acyclic graphs. In: *Proc. MPC'95*, Springer LNCS 947, 1995, 282–303. Cite: 8.1.33; 8.1.35

34. C. Gutierrez. The arithmetic and geometry of allegories; normal forms and complexity of a fragment of the theory of relations. PhD Thesis, Wesleyan University, May 1999. Cite: 8.1.26

35. E.G. Manes. *Predicate transformer semantics*. Cambridge Tracts in Theoretical Computer Sceince, Cambridge University Press, 1992. Cite: 8.1.40

36. R. Milner. *Action Calculi V: Reflexive molecular forms*, FTP site, University of Edinburgh, June 1994. Cite: 8.1.42

37. B. Möller. Deductive hardware design: a functional approach. In: *Prospects for Hardware Foundations*, B. Möller and J.V. Tucker (Eds.), LNCS 1546, Springer, 1998. Cite: 8.4.84, 8.3.74

38. B. Möller. Ideal stream algebra. In: *Prospects for Hardware Foundations*, B. Möller and J.V. Tucker (Eds.), LNCS 1546, Springer, 1998, 69–116. Cite: 3.4.84

39. M. Mori. Flownomials and Dedekind categories. In: *Proc. Joint Conference on Discrete Mathematics and Applied Mathematics*, Seta, Japan, 18-20 December, 1997, 69–70. Cite: 8.3.74; 8.4.101

40. T. Stauner and C. Grimm. Prototyping of hybrid systems - from HyCharts to Hybrid Data-Flow Graphs. *Electronic Notes in Theoretical Computer Science*, Volume 28, 1999. Cite: 8.2.61; 8.1.43

41. E.G. Wagner. Algebraic Semantics. In: *Handbook on Logic in Computer Science, Vol. 3: Semantic Structures*, Eds. A. Abramsky, D. Gabbay, T.S.E. Maibaum, Oxford University Press, 1994, 324–393. Cite: 3.1.40