

Curriculum Vitae et Studiorum

Silvia Likavec

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1 Personal data

Name and surname	Silvia Likavec
Place and date of birth	Novi Sad, Yugoslavia, 17th April 1973
Citizenship	Slovakian/Yugoslavian
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2 Education and academic activities

- November 2004 - September 2005:
Master in applied mathematics
Faculty of Engineering, University of Novi Sad, Yugoslavia
Final exam: 15th September 2005
Thesis title: “*Reducibility method for lambda calculus with intersection types*”
Advisor: Prof. Silvia Ghilezan
- January 2003 - present:
Cooperating researcher on the project “1630: Representation of proofs with applications, classification of structures and infinite combinatorics”
Serbian Academy of Sciences and Arts, Belgrade, Yugoslavia
- November 2001 - October 2004:
Joint PhD in computer science
Dipartimento di Informatica, Università degli Studi di Torino, Italia
Laboratoire de l’Informatique du Parallélisme (LIP), École Normale Supérieure de Lyon, France
Final exam: 10th February 2005
Thesis title: “*Types for object-oriented and functional programming languages*”
Thesis directors: Prof. Viviana Bono, Prof. Pierre Lescanne
Referees and committee members: Prof. Michele Bugliesi, Prof. Dan Dougherty, Prof. Susan Eisenbach, Prof. Hugo Herbelin
- August - September 1999:
Visiting student, developer of the Web pages for computer science laboratory “Visualis”, Instituto Superior Tecnico, Universidade Tecnico de Lisboa, Portugal
- October 1997 - January 2002:
Teaching assistant, Faculty of Engineering, University of Novi Sad, Yugoslavia
- July - October 1997:
Visiting student, developer of the Web pages for Instituto de Ciências Exatas e Biológicas, Universidade Federal de Ouro Preto, Brasil
- October 1992 - March 1997:
Undergraduate studies in applied mathematics, Faculty of Natural Science and Mathematics, University of Novi Sad, Yugoslavia

3 Foreign languages

- English: fluent, Cambridge Certificate of Proficiency in English
- Italian, Portuguese: fluent
- Serbian, Slovakian: mother tongues
- German: intermediate
- Spanish: basic

4 Research interests

- Semantics of programming languages
- Lambda calculus
- Type theory
- Category theory
- Theory of objects
- Application of logic in computer science

5 Teaching activity

- October 1997 - January 2002:
Faculty of Engineering, University of Novi Sad, Yugoslavia
Courses taught: *Algebra* (Department of electrical engineering), *Analysis I*, *Analysis II*, *Ordinary differential equations* (Department of civil engineering, Department of mechanical engineering and Department of transport engineering)
- October 1997:
Departamento de Computação, Universidade Federal de Ouro Preto, Brasil
Teaching an HTML mini-course for the 4th grade students

6 Research projects

- **Extensible Object Systems (EOS project)**, funded by the Ministero dell'Istruzione, Università e Ricerca (MIUR). The duration is 24 months from 30.11.2004. Scientific coordinator: Elena Zucca.
- **Dynamic Assembly, Reconfiguration and Type-checking IST-2001-33477 (DART) project** in the Global Computing pro-active initiative of Future and Emerging Technologies. The DART project is funded by the Information Society Technologies (IST) programme of the Fifth Framework Programme (FP5). The duration is 36 months (2002-2004). Scientific coordinator: Eugenio Moggi.
- **Computational Metamodels (CoMeta) project**, partially funded by the Ministero dell'Istruzione, Università e Ricerca (MIUR). The project number is COFIN 2001013518. The duration was 24 months (2002-2003). Scientific coordinator: Furio Honsell.
- **From Proof To Computation through Linear Logic (ProToCoLLo) project**, partially funded by the Ministero dell'Istruzione, Università e Ricerca (MIUR). The project number is COFIN 2002018192. The duration was 24 months (2003-2004). Scientific coordinator: Simona Ronchi Della Rocca.
- **Network Aware Programming: Objects, Languages, Implementations (NAPOLI)**, partially funded by the Ministero dell'Istruzione, Università e Ricerca (MIUR). The project number is COFIN 2001017253. The duration was 24 months (2002-2003). Project coordinator: Rocco De Nicola.

- **Representation of proofs with applications, classification of structures and infinite combinatorics**, funded by the Ministry of Science, Technology, and Development of Serbia. The project number is 1630. Project Coordinator: Kosta Došen.

7 Doctoral schools

- **Mini School Chambery-Turin on Theoretical Computer Science**
Aussois, France, 29.01-01.02.2003.
- **Summer School and Workshop on Generic Programming**
St Anne's College, Oxford, England, 26-31.08.2002.
- **Proofs-as-Programs Paradigm Summer School**
University of Oregon, Eugene, USA, 24.06-06.07.2002.
- **Bertinoro International Summer School for Graduate Studies in Computer Science BISS 2002**
University of Bologna Residential Center, Bertinoro, Italy, 19-31.05.2002.
- **Spring School on Theoretical Computer Science: Semantics of Programming Languages**
Agay - VAR, France, 24-29.03.2002.

8 List of publications

International journals

1. M. Dezani, S. Ghilezan, S. Likavec: **Behavioural inverse limit models**, *Theoretical Computer Science* 316(1-3), pp. 49-74, 2004. Elsevier.
2. L. Bettini, V. Bono, S. Likavec: **Safe and Flexible Objects with Subtyping**, *Journal of Object Technology, Special issue on the 20th ACM SAC '05*, 4(10), 2005.

Lecture Notes

3. D. Dougherty, S. Ghilezan, P. Lescanne, S. Likavec: **Strong Normalization of the Dual Classical Sequent Calculus**, Proceedings of the *12th International Conference on Logic for Programming Artificial Intelligence and Reasoning, LPAR '05, Lecture Notes in Artificial Intelligence* 3835, pp. 169-183, 2005. Springer Verlag.
4. L. Bettini, V. Bono, S. Likavec: **Safe object composition in the presence of subtyping**, Proceedings of the *9th Italian Conference on Theoretical Computer Science, ICTCS 2005, Lecture Notes in Computer Science* 3701, pp. 128-142, 2005. Springer Verlag.
5. L. Bettini, V. Bono, S. Likavec: **A Core Calculus of Higher-Order Mixins and Classes**, Post-Workshop Proceedings of *TYPES 2003* (Selected papers), *Lecture Notes in Computer Science* 3085, pp. 83-98, 2004. Springer Verlag.

International conferences and workshops (refereed)

6. L. Bettini, V. Bono, S. Likavec: **Safe and Flexible Objects**, Proceedings of the *20th Annual ACM Symposium on Applied Computing, ACM SAC '05, Special Track on Object-Oriented Programming Languages and Systems OOPS '05*, pp. 1258-1263, 2005. ACM Press, New York.
7. L. Bettini, V. Bono, S. Likavec: **A Core Calculus of Mixins and Incomplete Objects**, Proceedings of the *19th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications - OOPSLA '04*, pp. 208-209, 2004. ACM Press, New York.
8. L. Bettini, V. Bono, S. Likavec: **A Core Calculus of Higher-Order Mixins and Classes**, Proceedings of the *19th Annual ACM Symposium on Applied Computing, ACM SAC '04, Programming Languages Track*, pp. 1508-1509, 2004. ACM Press, New York.

9. L. Bettini, V. Bono, S. Likavec: **A Calculus of Mixin-Based Incomplete Objects**, Proceedings of the *11th International Workshop on Foundations of Object-Oriented Languages, FOOL '04*, pp. 29-41, 2004.
10. S. Ghilezan, S. Likavec: **Extensions of the reducibility method**, Proceedings of the *4th Panhellenic Logic Symposium, (PLS4)*, pp. 107-112, 2004.
11. S. Ghilezan, S. Likavec: **Reducibility: a ubiquitous method in lambda calculus with intersection types**, Proceedings of the *2nd Workshop on Intersection Types and Related Systems, ITRS '02*, Copenhagen, Denmark, *Electronic Notes in Theoretical Computer Science* 70(1), 2003.
12. S. Ghilezan, V. Kuncak, S. Likavec: **Reducibility method for termination properties of typed lambda terms**, Proceedings of the *5th International Workshop on Termination (WST '01)* (N. Dershowitz ed.), pp. 14-16, 2001.

Technical reports

13. P. Lescanne, S. Likavec: **Understanding untyped $\bar{\lambda}\mu\tilde{\mu}$ calculus**, Technical Report RR2004-50, LIP, École Normale Supérieure de Lyon.

Books

14. T. Grbic, S. Likavec, T. Lukic, J. Pantovic, N. Sladoje, Lj. Teofanov: **Zbirka rešenih zadataka iz Matematike I** (in serbian)