CURRICULUM VITAE

Silvia Ghilezan

(as of 09/20)

Mathematical Institute SASA (SANU), Belgrade
Kneza Mihaila 36, Belgrade, Serbia
University of Novi Sad
Faculty of Technical Sciences
Trg Dositeja Obradovića 6, Novi Sad, Serbia

email: `gsilvia@uns.ac.rs`
web page: `http://imft.ftn.uns.ac.rs/~silvia`

Research Interests

- Theoretical Computer Science: type theory, lambda calculus, theory of programming languages, philosophy and history of computer science.
- Mathematical Logic and application: proof theory, logic in computer science, proof assistants, formal verification.
- Concurrency: process calculi, security types, access control.
- Mathematical Linguistics.
- Artificial Intelligence: semantics, formal verification, algorithms, virtual learning environments.
- Privacy: mathematical models, open data.

Positions held

- 2015 – present Full Professor at the Mathematical Institute, Serbian Academy of Sciences and Arts, Belgrade, Serbia.
- 2005 – present Full Professor University of Novi Sad, Faculty of Technical Sciences.
- 2005 – Head of the Center for Mathematics and Statistics, University of Novi Sad.
- 2000 – 2004 Associate Professor, 1995 – 1999 Assistant Professor, University of Novi Sad, Faculty of Technical Sciences.
- 2017 – consultant ARVRtech.

Awards

Chevalier de l'Ordre des Palmes Académiques (2013).

Education

- 1993 Ph.D. - University of Novi Sad, Serbia (Yugoslavia). Thesis: "Intersection types in lambda calculus and logic". Advisers: H.P. Barendregt, K. Došen.
- 1988 M.Sc. - University of Belgrade, Serbia (Yugoslavia). Thesis: "Lambda calculus and weak propositional logics". Adviser: K. Došen.
- 1981 B. Sc. - University of Novi Sad, Serbia (Yugoslavia).

Five most influential papers

- **An approach to call-by-name delimited continuations**.
H. Herbelin, S. Ghilezan
POPL 2008 - The 35th Annual ACM SIGPLAN- Symposium on Principles of Programming Languages, 383-394 (2008).
- **Security types for dynamic web data**.
M.Dezani-Ciancaglini, S. Ghilezan, J. Pantović, D. Varacca.
Theoretical Computer Science 402 (2-3): 156-171 (2008). Elsevier Science B.V.
- **Characterizing strong normalization in the Curien-Herbelin symmetric lambda calculus: extending the Coppo-Dezani heritage**.
D.Dougherty, S.Ghilezan, P.Lescanne.
Theoretical Computer Science 398: 114-128 (2008). Elsevier Science B.V.
- **Lambda terms for natural deduction, sequent calculus and cut elimination**.
H.P. Barendregt, S. Ghilezan.
Journal of Functional Programming 10: 121-134 (2000) Oxford University Press.
- **Strong normalization and typability with intersection types**.
S. Ghilezan.
Notre Dame Journal of Formal Logic 37: 44-53 (1996).

Visiting positions

- 2018 University of Oregon, USA, Courtesy Research Associate.
- 2016 Université Paris Diderot, Paris 7, France.
- 2001-2002 École Normale Supérieure de Lyon, France.

- 2000-2001 Radboud University, Computing Science Department, Nijmegen, The Netherlands.
- 1993 McGill University, Department of Mathematics and Statistics, Montreal, Canada.

Other longer visits

- 2014 Eotvos Lorand University, Budapest, Hungary.
- 2013 École Polytechnique de Lausanne, Switzerland.
- 2012 University of Oregon, Department of Computer Science, Eugene, USA.
- 2011 INRIA Paris, Universite Paris Diderot - Paris 7, France.
- 2010 INRIA Paris, France.
- 2010 University of Minho, Braga, Portugal.
- 2008 University of Turin, Department of Informatics,Turin, Italy.
- 2007 École Normale Superieure de Lyon, Lyon, France.
- 2000 University of Turin, Turin, Department of Informatics, Italy.
- 1992 University of Turin, Turin, Department of Informatics, University of Turin, Turin, Italy.
- 1990-1991 Catholic University, Faculty of Mathematics and Informatics, Nijmegen, The Netherlands.

Guest speaker

Guest speaker: INRIA Sophia Antipolis, France (2019), University of Groningen, The Netherlands (2019), National Technical University of Athens, Greece (2019), University of Pennsylvania, USA (2018), University of Oregon, USA (2018), University of Kyoto, Kyoto, Japan (2018), East China Normal University, Shangai, China (2017), Université Paris Diderot, Paris 7, France (2016), NII Shonan, Japan (2015, 2018), Eotvos Lorand University, Budapest, Hungary (2014), Ecole Polytechnique de Lausanne, Switzerland (2013), University of Oregon, Eugen, USA (2012), Universite Paris 7, France (2010), University of Minho, Portugal (2010), University of Florence, Italy (2008), École Normale Superieure de Lyon, France (2002, 2007), University of Athens, Greece (2003), Jozsef Atilla University, Szeged, Hungary (1997), McGill University, Montreal, Canada (1993), Université de Québéc à Montréal, Canada (1993), Universita di Sapienza, Rome, Italy (1992), University of Turin, Italy (1991, 1992, 2000, 2002, 2008), University of Nijmegen, The Netherlands (1991, 2001), University of Utrecht, The Netherlands (1990).

Professional activities and services

Invited speaker

- Annual meeting of IFIP Working Group 1.6: Rewriting, 2019, Dortmund, Germany.
- NII Shonan Meeting 2018 - Intensional and extensional aspects of computation, Shonan, Japan.
- Privacy in Digital Age: Illusion or Challenge 2017, Belgrade, Serbia.
- International Workshop on Intersection Types 2016, Paris, France.
- NII Shonan Meeting 2015 - Logic and Verification Methods in Security and Privacy, Shonan, Japan.
- CM:FP 2013 - Constructive Mathematics: Foundations and Practice, Nis, Serbia.
- HOR 2010 - Higher Order Rewriting (FLOC 2010), Edinburgh, UK.

Conference chair

- US-Serbia NSF Data Science Workshop 2018, Belgrade, Serbia.
- TYPES 2016 - 22nd Types for Proofs and Programs, Novi Sad, Serbia.
- RDP 2011 - 10th Federated Conference on Rewriting, Deduction and Programming, Novi Sad, Serbia.
- LAP 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012 - Co-director of Logic and Application, Annual Meeting and School, Dubrovnik, Croatia.
- FIT 2009 - Co-chair of the summer school Foundations of Informational Technologies, Novi Sad, Serbia.

Program committee chair

- HOR 2019 - 10th Workshop on Higher Order Rewriting, 28 June 2019, Dortmund, Germany.
- TYPES 2016 - 22nd Types for Proofs and Programs, Novi Sad, Serbia.
- ITRS 2008 - Workshop on Intersection Types and Related Systems, Turin, Italy.

Steering committee member

- FSCD - Formal Structures for Computation and Deduction (2020 - present).
- TYPES - Types for Proofs and Programs (2016 - 2019).
- LAP - Logic and Applications (2012 - present).

Program committee member

- FSCD 2021 - 6th International Conference on Formal Structures for Computation and Deduction, 19 - 21 July 2021, Buenos Aires, Argentina.
- FSCD 2020 - 5th International Conference on Formal Structures for Computation and Deduction, Paris, France.
- TYPES 2020 - 26th International Workshop on Types for Proofs and Programs, Turin, Italy.
- ITRS 2010 - Workshop on Intersection Types and Related Systems (FLOC 2010), Turin, Italy.
- FM 2019 - 3rd World Conference on Formal Methods and the 23rd Symposium on Formal Methods, Porto, Portugal.
- TYPES 2019 - 25th International Workshop on Types for Proofs and Programs, Oslo, Norway
- PPDP 2018 - 20th International Symposium on Principals and Practice of Declarative Programming, Hamburg, Germany.
- LAP 2018, 2017, 2016, 2014, 2013, 2012 - Logic and Applications, Dubrovnik, Croatia.
- FSCD 2017 - 2nd International Conference on Formal Structures for Computation and Deduction, Oxford, UK.
- TYPES 2017 - 23nd Types for Proofs and Programs, Budapest, Hungary.
- LSFA 2016 - 11th Workshop on Logical and Semantic Frameworks, with Applications, Porto, Portugal.
- TFP 2016 - Trends in Functional Programming, College Park, Maryland, USA.
- TLCA 2015 - 13th International Conference on Typed Lambda Calculus and Application, Warsaw, Poland.
- BEAT 2014 - 3rd International Workshop on Behavioural Types (CONCUR), Rome, Italy.
- ICFP 2013 - 17th International Conference on Functional Programming, Boston, USA.
- TYPES 2013 - 17th Types for Proofs and Programs, Toulouse, France.
- CL&C 2012 - 4th Workshop on Classical Logic and Computation (ICALP 2012), Warwick, UK.
- SCSS 2012 - International Symposium on Symbolic Computation in Software Science, Gammarth, Tunisia.
- BCI 2012 - 5th Balkan Conference in Informatics, Novi Sad, Serbia.

- TLCA 2011 - 10th International Conference on Typed Lambda Calculus and Application, Novi Sad, Serbia.
- SCLIT 2011 - Symposium on Computer Languages, Implementation and Tools, Halkidiki, Greece.
- ITRS 2010 - Workshop on Intersection Types and Related Systems (FLOC 2010), Edinburgh, UK.
- SVARM 2010 - Workshop on Synthesis, Verification and Analysis of Rich Models (FLOC 2010), Edinburgh, UK.

Evaluation and advisory services in Serbia

- Head of the Center for Mathematics and Statistics, Serbia, 2004-present.
- Member of the Faculty Council of the Faculty of Technical Sciences, 2017-2019.
- Member of the Scientific Committee of the University of Novi Sad, 2010-present.
- Member of the Advisory Board of the Ministry of Science, Serbia, 2007-2016.
- Member of the Working group for internationalization, Ministry of Education, Science and Technological Development 2015-2016.
- Member of the Selection Jury for French Scholarships - bourses du gouvernement français, French Institute and French Embassy, Belgrade, 2013-present.
- Member of the Selection Committee L'Oreal - UNESCO Women in Science, National awards in Serbia, 2018.

Evaluation and advisory services abroad

- Member of the foreign public body of Hungarian Academy of Science, since 2006.
- External reviewer for PhD thesis France, Italy.
- Member of the Comission regional d'experts du Bureau Europe Centrale et Oriental de l'Agence Universitaire de la Francophonie, 2015-2019.
- Scientific reviewer for ANR Agence nationale de la recherche (National Research Agency), France.
- Scientific reviewer for PRIN CINECA MIUR Ministero dell'Istruzione, dell'Università e della Ricerca (Ministry of Education, Universities and Research), Italy.
- Scientific reviewer for NWO The Netherlands Organisation for Scientific Research, The Netherlands.
- Comité de selection Professeur - COS PR IRIF, Université Paris Diderot, Paris 7, 2019, France.

Editorial Board

- Publications de l'Institute Mathematique

Referee for international journals

- Bulletin of Symbolic Logic, USA.
- Information and Computation, Academic Press, USA.
- Theoretical Computer Science, Elsevier, B.V., NL.
- Logical Methods in Computer Science.
- Lecture Notes in Computer Science, Springer-Verlag, Germany.
- Mathematical Structures in Computer Science, Cambridge University Press, UK.
- Journal of Logic and Computation, Oxford University Press, UK.
- Journal of Logic and Algebraic Methods in Programming, Elsevier.
- The Computer Journal, Oxford University Press, UK.
- Electronic Notes in Theoretical Computer Science, Elsevier, B.V., NL.
- Notre Dame Journal of Formal Logic, USA.
- Fundamenta Informaticae, IOS Press, Amsterdam, NL.
- Mathematical Reviews, USA.
- Zentralblatt fur Mathematik, Germany.

Referee for international conferences (major)

- CONCUR 2020, 31st International Conference on Concurrency Theory, Vienna, Austria.
- PoPL 2019, 46th ACM SIGPLAN Symposium on Principles of Programming Languages, Cascais/Lisbon Portugal.
- FSCD 2019, 4th International Conference on Formal Structures for Computation and Deduction, Dortmund, Germany.
- FoSSACS 2017, 20th International Conference on Foundations of Software Science and Computation Structures, Uppsala, Sweden.
- FoSSACS 2016, 19th International Conference on Foundations of Software Science and Computation Structures, Eindhoven, The Netherlands.
- LICS 2015, 30th Annual ACM/IEEE Symposium on Logic in Computer Science, Kyoto, Japan.

- ICFP 2012, 17th ACM SIGPLAN International Conference on Functional Programming, Copenhagen, Denmark.
- CSL 2011, 20th EACSL Conference on Computer Science Logic, Bergen, Norway.
- TLCA 2011, 10th International Conference on Typed Lambda Calculus and Application, Novi Sad, Serbia.
- FLOPS 2010, 10th International Symposium on Functional and Logic Programming, Sendai, Japan.
- TCS 2010, Theoretical Computer Science, Brisbane, Australia.
- RTA 2010, 21st International Conference on Rewriting Techniques and Application, Edinburgh, UK.
- CSL 2008, 17th EACSL Conference on Computer Science Logic, Bertinoro, Italy.
- ICALP 2008, International Colloquium on Automata, Languages and Programming, Reykjavik, Iceland.
- TLCA 2007, 8th International Conference Typed Lambda Calculus and Application, Paris France.
- TLCA 2005, 7th International Conference Typed Lambda Calculus and Application, Nara, Japan.
- RTA'04, 15th International Conference on Rewriting Techniques and Application, Achen, Germany.
- WoLLIC 2004, Workshop on Logic, Language, Information and Computation Paris, France.
- TYPES 2002, Workshop of the Types Network, Nijmegen, The Netherlands.
- RTA 2002, 13th International Conference on Rewriting Techniques and Application, Copenhagen, Denmark.
- TCS 2002, Theoretical Computer Science, Montreal, Canada.
- ICFP 2000, ACM SIGPLAN International Conference on Functional Programming, Montreal, Canada.

Projects and funding grants

Ongoing

- LeTSGEPs Leading Towards Sustainable Gender Equality Plans in research performing organisations, H2020-SwafS ID: 873072 (2020-2023).

- MC member COST IC19122 "European Network For Gender Balance in Informatics - EUGEIN " (2019-2023).
- Advisor "Immersive4learning" (2018-present).

Accomplished

- PI of the national project "Representations of logical structures and formal languages and their application in computing" ON 174026 (2011-2019).
- MC member and Core Group member COST CA15123 "The European research network on types for programming and verification - EUTYPES" (2015-2019).
- Core group member ERASMUS+ "BE-OPEN - Boosting Engagement of Serbian Universities in Open Science" (2016-2019).
- Co-PI of the bilateral project Serbia-France "Computational Logics and Higher Algebra - CoLoHA" in the framework "Pavle Savic - Hubert Curien" (2016-2017).
- MC member COST IC1201 "Behavioural Types for Reliable Large-Scale Software Systems- BETTY" (2012-2016).
- MC member COST IC0901 "Rich-Model Toolkit" (2009-2013).
- INRIA équipe associée "SEMACODE - Stratégies d'Evaluation, Machines Abstraites et Contróle Delimité" (2011-2013).
- Co-PI of the bilateral project Serbia-France "Logic and Types in Science and Information Technologies" in the framework "Pavle Savic Hubert Curien" (2012-2013).
- Project Coordinator "DEUKS - Doctoral School towards European Knowledge Society", Tempus Project JEP - 41099 - 2006. (2007- 2009).
- Co-PI "TLIT - Types and Logic in Information Technologies", bilateral project with CNRS - France (2007-2008, 2009-2010).
- PI of national projects "Models, Languages, Types and Processes in Computer Science" no. 144029 (2006-2010) and "Mathematical Models in Information Technologies MMIT" (2005-2010).
- Site representative of the FP6-IST project "TYPES - Types for Proofs and Programs", FP6-2002-IST-C no. 510996 (2004-2008).
- Co-PI of the bilateral project with Slovenia "Distance learning in the area of computer supported mathematical education" (2006-2007).
- Participation in Serbian national projects since 1988.

Cooperation with research groups

- Z. M. Ariola, University of Oregon, Eugene, USA.
- H.P. Barendregt, Academician, Royal Dutch Academy of Sciences, Radboud University, The Netherlands;
- P.-L. Curien, A. Saurin, Universite Paris Diderot - Paris 7, France;
- M. Dezani-Ciancaglini, Academia Europaea, Dipartimento di Informatica, Universita' degli Studi di Torino, Italy;
- D. Dougherty, Department of Computer Science, Worcester Polytechnic Institute, USA;
- J. Espirito Santo, University of Minho, Braga, Portugal;
- H. Herbelin, INRIA, Paris, France;
- F. Honsell, M. Lenisa, Dipartimento di Informatica, Universita' degli Studi di Udine, Italy;
- Z. Horvath, Department of Computer Science, ELTE, Budapest, Hungary;
- V. Kuncak, Ecole Politechnique de Laussane, Switzerland;
- J. Lambek, Department of Mathematics, McGill University, Montreal, Canada;
- L. Liquori, INRIA Sophia Antipolis, Nice, France;
- P. Lescanne, Ecole Normale Superieure de Lyon, Lyon, France;
- S. Lucas, Politechnical University of Valencia, Valencia, Spain;
- D. Pagon, University of Maribor, Maribor, Slovenia;
- D. Pavlovic, University of Hawaii, USA;
- J. A. Perez University of Groningen, The Netherlands;
- A. Scedrov, University of Pennsylvania, USA;
- Z. Sikic, University of Zagreb, Zagreb, Croatia;
- P. Stefaneas, G. Koletsos, Y. Stavrinos, National Technical University Athens, Greece;
- T. Studer, University of Bern, Switzerland;
- B. Venneri, University of Florence, Italy;
- H. Zhu, East China Normal University, Shanghai, China.

Teaching

Undergraduate courses

- Mathematical Logic (Program: Applied Computer Science)

- Mathematical Statistics and Probability (Program: Civil, Environmental Engineering)
- Mathematics for Engineering I, II, III (Program: Mechanical, Civil, Traffic, Electrical Engineering)

Master's courses

- Mathematical Logic (Program: Applied Mathematics)
- Introduction to Semantics of Programming Languages (Program: Applied Mathematics)
- Introduction to proof-assistants (Program: Applied Mathematics, Information Engineering)
- Mathematical methods in privacy (Program: Applied Mathematics, Information Engineering)

Doctoral/graduate courses

- Mathematical Logic in Computer Science
- Decidability and Computability
- Semantics of Programming Languages
- Theory of Mobile Processes
- Scientific writing

Courses held abroad (Ecole Normale Superieure de Lyon)

- Semantics of programming languages (ENS Lyon)
- Decidability and the theory of computing (ENS Lyon)
- Rewriting and lambda calculus (ENS Lyon)

Current Ph.D. students

- Simona Kašterović, since 2017
- Tamara Stefanović, since 2019

Ph.D. students advisor

- Aleksandar Pejović "Parallel software system for counting finite models", January 2020.
- Veljko Petrović "Domain specific language for visualization evaluated by the statistical analysis of small data sets" in Serbian, 2018.
- Jelena Ivetić "Intersection types and resource control in the intuitionistic sequent lambda calculus" 2013.
- Petar Maksimović "Development and Verification of Probability Logics and Logical Frameworks" (co-tutelle with University Nice) 2013.

Former students

- Silvia Likavec, UNS, University of Turin, ENS-Lyon (graduated 2005)
- Viktor Kuncak, MIT, USA (graduated 2007)
- Dragiša Žunić, ENS-Lyon (graduated 2008)
- Jovana Obradović, University Paris 7 (graduated 2017)
- Nenad Savić, University of Bern (graduated 2020)
- Alen Arslanagić, University of Groningen

Master students advisor

- Alen Arslanagić, "Types systems with constraints for ML type inference with implementation in Haskell" 2017.
- Aleksandar Kršić, "Linear logic and application in Petri nets", 2017.
- Simona Kašterović, "Kripke semantics for intuitionistic logic and lambda calculus", 2017.
- Marko Stupar, "Modal logic and application in information system security", 2016.
- Jelena Ivetić, "Term calculi for intuitionistic logic", 2008.
- Silvia Likavec, "Reducibility method for lambda calculus with types", 2004. (In English and Serbian).

External reviewer for PhD thesis

- Nenad Savić, University of Bern, Switzerland, 2020- thesis reviewer (thesis director T. Studer).

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- Claude Stolze, University of Nice - Sophia Antipolis, France, 2019- thesis reviewer (thesis director L. Liquori).

- Fabien Renaud, Université Paris Diderot - Paris 7, France, 2011- thesis reviewer (thesis director D. Kesner).

- Yoko Motohama, University of Udine, Italy, 2003 - thesis reviewer (thesis director M. Dezani, F. Honsell).

- Stefania Lusin, University of Venice, Italy, 2002 - thesis reviewer (thesis director M. Dezani, A. Salibra).

Doctoral thesis evaluator and committee member

- Nenad Savić, University of Bern, Switzerland, 2020- thesis reviewer (thesis director T. Studer).

- Claude Stolze, University of Nice - Sophia Antipolis, France, 2019- thesis reviewer (thesis director L. Liquori).

- Nikola Luburić, University of Novi Sad 2020 (thesis director G. Sladić).

- Ivan Prokić, University of Novi Sad 2020 (thesis director J. Pantović).

- Vladimir Iliić, University of Novi Sad 2019 (thesis director N. Ralević), president of the jury.

- Marko Marković, University of Novi Sad 2018 (thesis director S. Gostojić).

- Vladimir Ivančević, University of Novi Sad 2017 (thesis director I. Luković).

- Svetlana Jakšić, University of Novi Sad 2016 (thesis director J. Pantović), president of the jury.

- Nikola Obrenović, University of Novi Sad 2015 (thesis director I. Luković).

- Bojan Marinković, University of Novi Sad 2014, president (thesis director Z. Ognjanović) president of the jury.

- Fabien Renaud, Universite Paris Diderot - Paris 7, France, 2011- thesis reviewer (thesis director D. Kesner).

- Tibor Lukić, University of Novi Sad 2011, president (thesis director N. Sladoje, J. Lindblad) president of the jury.

Publications

- 7 book chapters.

- Over 60 publications in international journals and conferences (Theoretical Computer Science, Journal of Functional Programming, Journal of Computer and System Sciences, Journal of Logic and Computation, Mathematical Stuctures in

Computer Science, Journal of Logic and Algebraic Methods in Programming, Lecture Notes in Computer Science, IEEE Transactions of Neural Networks, ACM SIGPLAN Notices).

- Over 40 communications at international conferences (FOIKS 2020, ECBS 2019, LFCS 2018, PPDP 2017, TYPES 2017, TYPES 2016, UNILOG 2015, PLACES 2015, RTA/TLCA'14, BEAT 2014, ISMVL'14, TYPES'14, LAP'13, UNILOG'13, ITRS'12, ICTAC'11, TYPES'10, HOR'10, POPL'08, WST'07, TYPES'07, TGC'06, LPAR'05, ITRS'05, PPDP'04, TYPES'03, ITRS'02, TYPES'02, ICTCS'01, LFCS 1994, ...).

Statistics

- Google Scholar reports 1034 citations (June 2020) over 16 papers cited over 16 times (h-index: 16)
(see http://scholar.google.com/citations?user=MxFJVvYAAAAJ&hl=en).

Over 50 scientific co-authors

(principal co-autors list)
- Z.M. Ariola (University of Oregon)
- H.P. Barendregt (Radboud University Nijmegen, The Netherlands),
- M. Dezani-Ciancaglini, (University of Turin, Italy),
- D. Dougherty (Worcester Polytechnic Insitute, USA),
- J. Espirito-Santo (University Minho, Portugal),
- H. Herbelin, (INRIA, Paris, France),
- J. Ivetic, (University Novi Sad),
- S. Jaksic, (University Novi Sad),
- V. Kuncak (EPFL, Switzerland),
- P. Lescanne (ENS-Lyon, France),
- S. Likavec (University of Turin, Italy),
- Z. Ognjanovic (Mathematical Institute SASA, Serbia),
- L. Paolini (University of Turin, Italy),
- J. Pantović, (University Novi Sad),
- J.A. Perez (University of Groningen, The Netherlands),
- D. Varacca (Universite Paris 7, France),
- B. Venneri (University of Florence, Italy),

- H. Torres Vieira (IMT Lucca. Italy),
- N. Yoshida (Imperila College, UK),
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List of publications

Silvia Ghilezan

(as of 05/20)

List of publications

Book chapters

- Snežana Smederevac, Dejan Pajić, Sanja Radovanović, Silvia Ghilezan, Petar Čolović, Branko Milosavljević Otvorena nauka: praksa i perspektive, Univerzitet u Novom Sadu, april 2020. (https://open.uns.ac.rs/handle/123456789/16297)

- Silvia Ghilezan, Jelena Ivetić, Silvia Likavec, P. Lescanne: Structural rules and resource control in logic and computation, Logic in Computer Science II, Zbornik radova, Mathematical Institute SASA 18(26): 79-109, 2015.

- S. Ghilezan: Proof Theory, Chapter 6C in Lambda Calculus with Types, H.P Barendregt, R. Statman. W. Dekkers. Cambridge University Press 2013.

- M. Borisavljević, S. Ghilezan, P. Janičić, A. Krapež, M. Kurilić, Ž. Mijajlović, Z. Marković, Z. Ognjanović, J. Pantović, Z. Petrić, M. S. Stanković, R. S. Stanković, I. Stojmenović, Dj. Vukomanović: History of Mathematical Logic in Serbia, in: Logic in Central and Eastern Europe: History, Science, and Discourse (edited by Andrew Schumann), December 2012, University Press of America, 467-492.

- S. Ghilezan, S. Likavec: Computational interpretations of logics. Mathematical Institute SANU 12(20) :159-215, (2009), (Logic in Computer Science, ed Z. Ognjanović).

- S. Ghilezan: Terms for natural deduction, sequent calculus and cut elimination in classical logic. In "Reflections on Type Theory, Lambda Calculus and the Mind, Essays dedicated to Henk Barendregt", eds E. Barendsen, V. Capretta, H. Geuvers, M. Niqui, 115-124. (2007).

- S. Ghilezan, J. Pantovic, J. Zunic: Partitioning Finite d-Dimensional Integer Grids with Application. In T. Gonzalez, editor, Handbook of Approximation Algorithms and Metaheuristic pp. 55-1–55-15, Chapman & Hall/CRC, (2007).

Book

- Z. Ognjanovic, S. Ghilezan: Matematičke osnove računarstva (Mathematical Foundations of Computer Science, in Serbian). 2020 - to appear.

Editorial

- LIPIcs, Leibniz International Proceedings in Informatics, Post-proceedings of TYPES 2016 LIPIcs 97 (2018).
- Logic in Computer Science II, Zbornik radova Mathematical Institute SASA 18(26) (2015).
- Fundamenta Informaticae (Intersection Types and Related Systems) 121(1-4) (2012).

Scientific Review

- Translation to Serbian and professional review of the book "Le thèorém vivant" by Cedric Villani (2013)

Paper list

1. Simona Kasterović, Silvia Ghilezan *Kripke semantics and completeness for full simply typed lambda calculus*, to appear in Journal of Logic and Computation Volume 30, issue 8 (2020).

2. Silvia Ghilezan, Tamara Stefanović, *Preseving Privacy in Caller ID Applications* accepted at The 15th IFIP Summer School on Privacy and Identity Management, Maribor, Slovenia (2020).

3. Silvia Ghilezan, Jelena Ivetić, Simona Kasterović, Zoran Ognjanović, Nenad Savić *Towards Probabilistic Reasoning in Type Theory - The Intersection Type Case* Foundations of Information and Knowledge Systems - 11th International Symposium, FoIKS 2020, Dortmund, Germany, February 2020, Lecture Notes in Computer Science 12012: 122–139 (2020).

4. Paul Downen, Zena M. Ariola, Silvia Ghilezan: *The Duality of Classical Intersection and Union Types* Fundamenta Informaticae 170(1-3): 39-92 (2019).

5. S. Ghilezan, S. Jaksić, J. Pantović, A. Scalas, N. Yoshida: *Precise subtyping for synchronous multiparty sessions*, Journal of Logical and Algebraic Methods in Programming 104: 127-173 (2019).

6. Marko Popović, Miroslav Popović, Silvia Ghilezan, Branislav Kordić *Formal Verification of Local and Distributed Python Software Transactional Memories*, Revue roumaine des sciences techniques Série Électrotechnique et Énergétique, issue 4, 2019: 423-428.

7. M. Popović, M. Popović, S. Ghilezan, B. Kordić: *Formal Verification of Python Software Transactional Memory Serializability Based on the Push/Pull Semantic Model*, ECBS 2019: 6:1-6:8

8. B. Kordić, M. Popović, S. Ghilezan: *Formal Verification of Python Software Transactional Memory Based on Timed Automata*, Acta Polytechnica Hungarica Vol. 16, No. 7: 197-216 (2019)

9. S. Ghilezan, J. Ivetić, S. Kasterović, Z. Ognjanović, N. Savić: *Probabilistic reasoning about simply typed lambda terms*, Lecture Notes in Computer Science 10703: 170-189 (2018).

10. J. Espirito Santo, S. Ghilezan: *Characterization of strong normalizability for a sequent lambda calculus with co-control*, PPDP 2017 - 19th International Symposium on Principles and Practice of Declarative Programming, Namur, Belgium, October 2017, pp 163-174 (2017).

11. B. Kordić, M. Popović, S. Ghilezan, I. Bašičević: *An Approach to Formally Verified Python Software Transactional Memory*, ECBS 2017 - 5th European Conference on the Engineering of Computer Based Systems, Larnaca, Cyprus, August 2017, pp 13:1-13:10 (2017).

12. S. Jakšić, J. Pantović, S. Ghilezan: *Privacy for Linked Data*, Mathematical Structures in Computer Science 27(1): 33-53 (2017), (online 15 March 2015).

13. S. Ghilezan, S. Jakšić, J. Pantović, J. A. Pérez and H. Torres Vieira: *Dynamic Role Authorisation in Multiparty Conversations*, Formal Aspects of Computing 28 (4): 643-667 (2016).

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Invited talks at international conferences

• Annual meeting of International Federation for Information Processing - IFIP Working Group 1.6: Rewriting, June 26, 2019, Dortmund, Germany.
"Denotational and Operational Preciseness of Subtyping"

- NII Shonan 2018 Intensional and Extensional Aspects of Computation: From Computability and Complexity to Program Analysis and Security, 22-25 January 2018, NII- National Institute of Informatics Shonan Meeting 115, Japan.
"Preciseness of Subtyping: from extensional to intensional aspects"

- EXCELL 2018 - Serbia for Excell Workshop, Horizon 2020 - Twinning - 2015, June 25-29, 2018, University of Novi Sad, Serbia.
"Doctoral School towards Knowledge Based Society"
web: https://serbiaforexcell.com/workshop-speakers/
video: https://www.youtube.com/watch?v=q1CO-qYXVJw

- Privacy in Digital age: Illusion or Challenge, 5 October 2017, Belgrade, Serbia.
"Mathematical methods in privacy protection"

- FMPriv 2016 International Workshop on Formal Methods in Privacy, 7 November 2016, Limassol, Cyprus.
"Types and Privacy"

- Banff IRS 2016 Interval Analysis and Constructive Mathematics, 13-16 Novemebr 2016, Mexico (canceled).

- NII Shonan 2015 Logic and verification methods in security and privacy, 26-29 October 2015, NII Shonan meeting, Japan.
"Types in access control and privacy"

- CM:FP 2013 - Constructive Mathematics: Foundation and Practice, 24-28 June 2013, Nis, Serbia.
"Reducibility method and logical relations in intuitionistic logic and programming languages"

- HOR'10 - 5th Workshop on Higher Order Rewriting, (Computational interpretations of logics), July 2010, Edinburgh, UK.
"Computational interpretations of logic"

Contributed talks at international conferences

- FOIKS 2020 - 11th International Symposium Foundations of Information and Knowledge Systems, Dortmund Germany (paper 3).

- TYPES 2020 - 26th International Conference on Types for Proofs and Programs, 2-5 March 2020, Turin, Italy.
Silvia Ghilezan, Simona Kašterović. Towards Completeness of Full Simply Typed Lambda Calculus (pp 164-166)

- LAP 2019 - 8th International Conference Logic and Applications 2019, 23-27 September 2019, Dubrovnik, Croatia.

Simona Kašterović, Silvia Ghilezan. Kripke Semantics for Lambda Calculus with Pairs and Disjoint Sums (pp 23-25)

- ECBS 2019 - European Conference on the Engineering of Computer Based Systems (paper 7).

- LFCS 2018 - Logical Foundations of Computer Science, 8-11 January 2018, Florida, USA (paper 9).

- TYPES 2018 - 24th International Conference onTypes for Proofs and Programs, 18-21 June 2018, Braga, Portugal.
Silvia Ghilezan, Jelena Ivetić, Simona Kašterović, Zoran Ognjanović, Nenad Savić. Towards probabilistic reasoning about typed lambda terms (pp 41-42)

- LAP 2018 - 7th International Conference Logic and Applications 2019, 24-28 September 2018
Milan Todorović, Silvia Ghilezan, Zoran Ognjanović. Mathematical methods for privacy protection (pp 41-43)

- PPDP 2017 - 19th International Symposium on Principles and Practice of Declarative Programming, October 2017, Namur, Belgium (paper 10).

- ECBS 2017 - 5th European Conference on the Engineering of Computer Based Systems, August 2017, Larnaca, Cyprus (paper 11).

- TYPES 2017 - Types for Proofs and Programs, May 2017, Budapest, Hungary.

- TYPES 2016 - Types for Proofs and Programs, May 2016, Novi Sad, Serbia.

- UNILOG 2015 - 5th World Congress on Universal Logic, June 2015, Istanbul, Turkey.

- PLACES 2015 - Programming Language Approaches to Communication- and Concurrency-cEntric Systems, April 2015, London, UK (paper 18, 19).

- TYPES 2015 - Types for Proofs and Programs, May 2015, Tallinn, Estonia.

- BEAT 2014 - 3rd International Workshop on Behavioural Types, September 2014, Rome (paper 20).

- RTA-TLCA - Joint 25th International Conference on Rewriting Techniques and Applications and 12th International Conference on Types Lambda Calculi and Applications 2014, June 2014, Vienna, Austria (paper 21).

- ISMVL 2014 - 44th IEEE International Symposium on Multiple-Valued Logic May 2014, Bremen, Germany (paper 22).

- TYPES 2014 - Types for Proofs and Programs, May 2014, Paris, France.

- UNILOG 2013 - 4th World Congress on Universal Logic, April 2013, Rio de Janeiro, Brazil.

- SVARM 2012 November 2013, Haifa, Israel.

- ICTAC 2011 - 8th International Colloquium on Theoretical Aspects of Computing, August 2011, Johannesburg, South Africa (paper 25).

- SVARM 2011 October 2011, Turin, Italy.

- Tbilisi 2009 - 8th International Tbilisi Symposium on Language, Logic and Computation, September 2009, Bakuriani, Georgia (paper 28).

- TYPES 2010 - Types for Proofs and Programs, April 2010, Warsaw, Poland.

- POPL 2008 - 35th Annual SIGPLAN-ACM Symposium on Principles of Programming Languages, January 2008, San Francisco, USA (paper 29).

- TYPES 2007 - Types for Proofs and Programs, April 2007, Nottingham, UK (paper 32).

- WST'07 - 9th International Workshop on Termination, RDP 2007, July 2007, Paris, France (paper 34).

- TGC'06 - Trustworthy Global Computing, September 2006, Lucca, Italy (paper 35).

- LPAR 2005 - 12th International Conference on Logic Programming and Artificial Reasoning, December 2005, Montego Bay, Jamaica (paper 36).

- ITRS'04 - 3rd Workshop on Intersection Types and related Systems, Copenhagen, Denmark (paper 37).

- PPDP'04 - 6th ACM-SIGPLAN International Conference on Principles and Practice of Declarative Programming July 2004, Verona, Italy (paper 39).

- TYPES 2003 - Types for Proofs and Programs, Torino, Italy (paper 40).

- PLS4 - 4th Panhellenic Logic Symposium, July 2003, Greece (paper 42).

- TYPES 2002 - Types for Proofs and Programs, Nijmegen, The Netherlands (paper 43).

- ITRS'02 - 2nd Workshop on Intersection Types and Related Systems, (paper 44).

- ICTCS'01 - 5th Italian Conference on Theoretical Computer Science, Turin, Italy (paper 48).

- PLS3 - 3rd Panhellenic Logic Symposium, (E. Kranakis ed.), July 2001, Crete, Greece (paper 49).

- WST'01 - 5th International Workshop on Termination, April 2001, Utrecht, The Netherlands (paper 50).

- ITRS'00 - Workshop on Intersection Types and Related Systems, July 2000, Geneva, Switzerland (paper 52).

- PLS2 - 2nd Panhellenic Logic Symposium July 1999, Delphi, Greece (paper55).

- PLS2 - Panhellenic Logic Symposium July 1997, July 1997, Nicosia, Cyprus (paper 58).

- 3rd Barcelona Logic Meeting, January 1997, Barcelona, Spain (paper 59).

- Kurepa's Symposium, June 1996, Belgrade, Yugoslavia.

- LFCS'94 - Logical Foundation of Computer Science, July 1994, St.Petersburg, Russia (paper 64).

- 9th International Congress of Logic, Methodology and Philosophy of Science, July 1991, Uppsala, Sweden.

- 7th Conference Algebra and Logic, 1990, Maribor, Slovenia.

- 3rd Logical Biennial Kleene'90, July 1990, Chaika, Bulgaria.

- The 1989 European Summer Meeting of ASL (Logic Colloquium), August 1989, Berlin, Germany (paper 71).