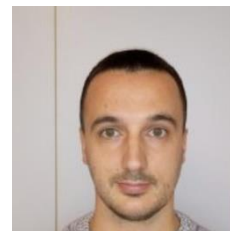


Ivan Prokić

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Research Interests

Formal Methods, Process Calculi, Type Theory, Session Types, Distributed Systems, Discrete Mathematics

Academic Positions

- Jul 2021 – present **Assistant Professor**
Chair for Mathematics
Department of Fundamentals Disciplines
Faculty of Technical Sciences, University of Novi Sad
- Sep 2020 – July 2021 **Teaching Assistant with PhD**
Chair for Mathematics
Department of Fundamentals Disciplines
Faculty of Technical Sciences, University of Novi Sad
- Nov 2014 – Sep 2020 **Teaching Assistant**
Chair for Mathematics
Department of Fundamentals Disciplines
Faculty of Technical Sciences, University of Novi Sad

Education

- Oct 2014 – Jan 2020 **PhD in Applied Mathematics**
Faculty of Technical Sciences, University of Novi Sad
PhD thesis: [Formal modeling and analysis of resource usage and sharing in distributed software systems](#)
GPA: 10.00/10.00
Advisors: *Prof. Dr. Jovanka Pantović and Prof. Dr. Hugo Torres Vieira*
- Oct 2012 – Sep 2014 **MSc in Mathematics**
Faculty of Sciences, University of Novi Sad
GPA: 9.83/10.00
- Oct 2009 – Sep 2012 **BSc in Mathematics**
Faculty of Sciences, University of Novi Sad
GPA: 9.73/10.00

Publications

Peer-Reviewed Journals

- Ghilezan S., Pantović, **Prokić I.**, Scalas A., Yoshida N.

[Precise Subtyping for Asynchronous Multiparty Sessions](#)

ACM Transaction on Computational Logic 2022

- Simić M., **Prokić I.**, Dedeić J., Sladić G., Milosavljević B.
[Towards edge computing as a service: dynamic formation of the micro data-centers](#)
IEEE Access 2021
- **Prokić I.**, Torres Vieira H.
[The Cpi-calculus: A Model for Confidential Name Passing](#)
Journal of Logical and Algebraic Methods in Programming 2021
- **Prokić I.**
[Characterization of Multiple-Valued Threshold Functions in the Vilenkin-Chrestenson Basis](#)
Journal of Multiple-Valued Logic and Soft Computing 2020
- **Prokić I.**, Pantović J., Torres Vieira H.
[A Calculus for Modeling Floating Authorizations](#)
Journal of Logical and Algebraic Methods in Programming 2019
- **Prokić I.**, Pantović J.
[Characterization of Generalized S-Threshold Functions by Nomura Parameters](#)
Journal of Multiple Valued Logic and Soft Computing 2019

Peer-Reviewed Conferences

- Ghilezan S., Pantović, **Prokić I.**, Scalas A., Yoshida N.
[Precise Subtyping for Asynchronous Multiparty Sessions](#)
Proceedings ACM Programming Languages 5 POPL 2021
- **Prokić I.**
[The Cpi-calculus: A Model for Confidential Name Passing](#)
12. Interaction and Concurrency Experience, Copenhagen 2019
- **Prokić I.**
[Characterization of Quaternary Threshold Functions in the Vilenkin-Chrestenson Basis](#)
48. International Symposium on Multiple-Valued Logic, Linz 2018
- Pantović J., **Prokić I.**, Torres Vieira H.
[A Calculus for Modeling Floating Authorizations](#)
38. Formal Techniques for Distributed Objects, Components, and Systems, Madrid 2018
- **Prokić I.**, Pantović J.
[Nomura Parameters for S-Threshold Functions](#)
46. International Symposium on Multiple-Valued Logic, Novi Sad 2017

Books and Chapters (in Serbian)

- Nedović M., Arsić D., **Prokić I.**, Kiš M., Mišćević I.
Zbirka zadataka iz algebre: prvi deo
Fakultet tehničkih nauka 2021
- Lukić T., Ilić V., **Prokić I.**, Đokić J.
Matematika 2: integralni račun i diferencijalne jednačine
Fakultet tehničkih nauka 2021
- Nikolić A., **Prokić I.**
Mirko Stojaković (1915-1985)
Život i delo srpskih naučnika, Biografije i bibliografije, SANU 2016

Research Projects

- European Union's Horizon Europe Research and Innovation Program
[TaRDIS: Trustworthy and Resilient Decentralised Intelligence for Edge Systems](#) 2023-2025

- Science Fund of the Republic of Serbia, Serbian Science and Diaspora Collaboration Program [Algebraic and logical methods for explainable artificial intelligence \(ALADDIN\)](#) 2020-2022
- European Union's program COST European Cooperation in Science and Technology [EUTYPES](#) - The European research network on types for programming and verification 2015-2020
- European Union's program COST European Cooperation in Science and Technology [Reversible computation - extending horizons of computing](#) 2014-2018
- European Union's program COST European Cooperation in Science and Technology [Behavioural Types for Reliable Large-Scale Software Systems](#) 2012-2016
- Ministry of Education and Science of the Republic of Serbia
Representations of logical structures and formal languages and their application in computing 2011-2018

Scholarships and Awards

- Award *Momčilo Momo Novković* received from the Dean of the Faculty of Technical Sciences 2022 [link](#)
- Selected as one of the participants at [8th Heidelberg Laureate Forum](#) 2021
- The ICE 2021 Outstanding PC Member Award [ICE 2021](#)
- Studentship from the Ministry of Youth and Sport and the Fund for Young Talents of the Republic of Serbia 2012 and 2014
- Award from University of Novi Sad for achieved outstanding results during the bachelor studies 2012

Teaching Experience

PhD Studies

- Faculty of Technical Sciences, University of Novi Sad
Program: Mathematics in Engineering
Formal Models and Methods for Concurrent Systems, since 2022

MSc Studies

- Faculty of Technical Sciences, University of Novi Sad
Program: Mathematics in Engineering
Theory of Computation, since 2022
- Faculty of Technical Sciences, University of Novi Sad
Program: Mathematics in Engineering
Formal Models for Distributed Systems, since 2022

BCs Studies

- Faculty of Technical Sciences, University of Novi Sad
Program: Mechatronics
Mathematics 3, since 2021
- Faculty of Technical Sciences, University of Novi Sad
Teaching assistant in various mathematics courses, since 2014

Mentoring PhD Students

- Faculty of Technical Sciences, University of Novi Sad
Program: Mathematics in Engineering
Candidate: Dunja Jankov, since 2021

Invited Talks

- At [MIDA](#) group, Uppsala University, Sweden, 7th November 2022
- At [MRG](#) group, Imperial College London (together with Miloš Simić), 7th October 2021

Professional Services

- [ICE 2023 - 16th Interaction and Concurrency Experience](#) PC member
- [ICE 2022 - 15th Interaction and Concurrency Experience](#) PC member
- [ICE 2021 - 14th Interaction and Concurrency Experience](#) PC member
- [ICE 2020 - 13th Interaction and Concurrency Experience](#) PC member

Professional Membership

- Institute of Electrical and Electronics Engineers (IEEE)
- Association for Computing Machinery (ACM)