MIRNA UDOVICIC

Personal Data

Date of Birth: 03. 10. 1975.
Nationality: Bosnian
Address: Vojnicko Polje,
Sarajevo, Bosnia and Herzegovina
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Work Experience

University of Sarajevo, Sarajevo School of Science and Technology, Sarajevo, Bosnia
Designation: Professor of Mathematics
Date: October 2015-Present

Previous Work Experience

University of Tuzla, Faculty of Natural Sciences and Mathematics (PMF), Tuzla, Bosnia

June 2007- March 2013   Professor of Mathematics
June 2003- June 2007   Assistant Professor of Mathematics

Engaged as a professor in the following subjects (SSST, Sarajevo):
- **Calculus**
- **Selected Topics in Mathematics**
- **Discrete Mathematics**
- **Statistics**

Engaged as a professor at the SSST Gymnasium subjects (September 2016-August 2019):
- **Mathematics**

Engaged as a professor in the following subjects:
- **Linear Algebra 1**
- **Linear Algebra 2**
- **Elements of Mathematical Logic** (PMF: Department of Mathematics, Tuzla)

- **Mathematics 1, Mathematics 2** (**Calculus and Differential Equations** are included in Mathematics 2) (Faculty of Civil Engineering, Tuzla)
- **Mathematics 1, Mathematics 2** (Faculty of Economy, Tuzla)

- **Mathematics 1, Mathematics 2** (PMF: Department of Chemistry, Tuzla)
- **Elementary Mathematics 1** (Faculty of philosophy: Teacher Education, Tuzla)

Education

2010-2014   University of Novi Sad, Faculty of Natural Sciences and Mathematics, Serbia
Doctor of Mathematics
Title of DSc degree thesis:
Algebraic Analysis of some Classes of Fuzzy Ordered Structures

2003-2007   University of Belgrade, Faculty of Mathematics, Serbia
MSc in Mathematics,
Graduated with highest possible grade: 10/10.
(Scientific discipline: Mathematical logic and theoretical computer science)
Title of MSc degree thesis:
Theory of Unification and its Application in Quantifier Elimination

1994-2002   University of Belgrade, Faculty of Mathematics, Serbia
Bachelors of Mathematics

1990-1994   Mathematical Gymnasium, Belgrade, Serbia
High school for special talents in mathematics, physics and computer science

Scientific Papers

Sci List

•"**Fuzzy posets with fuzzy order applied to fuzzy ordered groups**", B.Šešelja, A.Tepavčević, M.Udovičić, Filomat, 2014.

•"**Fuzzy chains, fuzzy lattices and fuzzy lattice ordered groups**", B.Šešelja, A.Tepavčević, M.Udovičić, J. of Intelligent and Fuzzy Systems, 2013.

•"**A certain class of quadratures with even Tchebychev weights**", Z.Udovičić, M.Udovičić, Analele Stiintifice Ale Universitatii Ovidius Constanta, 2011.

Publications and Presentations

•"Quantifier Elimination-Algorithms and Applications", M.Milošević,D.Doder, M.Udovičić, F.Marić, Proc. 2nd Serbian-Hungarian Joint Symposium on Intelligent Systems, Subotica 2004

•"Quantifier Elimination in Mathematical theories", M.Milošević, M.Udovčić, D.Doder, D.Ilić, ETRAN Conference, Čačak 2004

• "One Implementation of the Quantifier Elimination for the Theory of structure (Q,+,-,<,0)", D.Doder, M.Udovčić, M.Milošević, D.Ilić, ETRAN Conference, Budva 2005

• "Chronological and dependency directed backtracking" M.Udovčić, ETRAN Conference, Beograd 2006

• "One example of chronological and dependency directed backtracking" M.Udovčić, Serbian-Hungarian Joint Symposium on Intelligent Systems, Subotica 2006

•Udovičić M., "**Constraint satisfaction problem: professor weekly schedule**", In: Hadžikadić M., Avdaković S. (eds) Advanced Technologies, Systems and Applications II. IAT 2018. Lecture Notes in Networks and Systems, vol 28, pp. 290-298, Springer

•Udovičić M., Kovačević K., "**Quantifier elimination in ACF and RCF**", In: Hadžikadić M., Avdaković S. (eds) Advanced Technologies, Systems and Applications III. IAT 2019. Lecture Notes in Networks and Systems, vol 60, pp. 419-429, Springer

•Udovičić M., Hafizović N., "**Constraint satisfaction problem: generating a schedule for a company excursion**" , In: Hadžikadić M., Avdaković S. (eds) Advanced Technologies, Systems and Applications III. IAT 2019. Lecture Notes in Networks and Systems, vol 60, pp. 430-438, Springer

•Udovičić M., "**Unification algorithms**" , In: Hadžikadić M., Avdaković S. (eds) Advanced Technologies, Systems and Applications IV. IAT 2020. Lecture Notes in Networks and Systems, vol , pp. 606-620, Springer

•Udovičić M., ""**Quantifier elimination in fields and Application in Geometry**", In: Hadžikadić M., Avdaković S. (eds) Advanced Technologies, Systems and Applications V.Springer, In Proceedings

Languages	Bosnian (native); **English** (fluent)
Technical Skills	Windows Programming ability in Pascal, C++ and Mathematica
Strengths	• Responsible, reliable and loyal • Able to create a positive learning environment • Especially interested in work with young people, pupils and students • Willing to work in a team, also willing to work individually with students (to discuss courses, grades, behaviour, and other issues and concerns) • Systematic and thorough approach in teaching • Excellent pedagogical and organizational skills. Always motivated for further research.