

MIRNA UDOVICIC



Personal Data

Date of Birth: 03. 10. 1975.
Nationality: Bosnian
Marital status: Single
Address: Vojnicko Polje,
Sarajevo, Bosnia and Herzegovina
Phone: 061672047, +381 65 45 01 113
E-mail: mirnaudovicic@yahoo.com

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:

- **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.

In this paper a fuzzy order was essentially different from others, not only in order structures but also in applications. Using the new notions, like positive and negative cone, convexity, a fuzzy ordered subgroups were characterized.

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

An original definition of lattice ordered group was introduced in this paper. It was investigated the existence of fuzzy l-subgroups of a lattice ordered group which is not necessarily linearly ordered. The answer to this existence problem is affirmative for fuzzy convex ordered groups.

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

The quadrature formulas for approximate the computation of a certain integral. It was proven that algebraic degree of exactness of those formulas can not be greater than five.

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

In this paper the algorithm for elimination of quantifiers for the theory of algebraic closed fields (ACF) was presented. It was also considered the theory of real closed fields (RCF).

References

• Rozalija Madaras Siladji, Full Professor at the University of Novi Sad, Serbia

Address: Trg Dositeja Obradovica 4, Novi Sad, Serbia

Phone: +381214852859

E-mail: rozalija.madaras-siladji@dmi.uns.ac.rs

• Branimir Seselja, Full Professor at the University of Novi Sad, Serbia

Address: Trg Dositeja Obradovica 4, Novi Sad, Serbia

Phone: +381214852708

E-mail: branimir.seselja@dmi.uns.ac.rs

• Andreja Tepavcevic, Full Professor at the University of Novi Sad, Serbia

Address: Trg Dositeja Obradovica 4, Novi Sad, Serbia

Phone: +381214852708

E-mail: andreja@dmi.uns.ac.rs

Languages

Bosnian (native); **English** (fluent)

Technical Skills

Windows

Programming ability in Pascal, C++ and Matematica

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.