

Samir Karasuljić

Biography and Bibliography

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Education

- 2011–2016 **PhD (Mathematics)**, *Faculty of Natural Sciences and Mathematics*, Tuzla, Bosnia and Herzegovina.
- 2005–2009 **MSc (Mathematics)**, *Faculty of Natural Sciences and Mathematics*, Tuzla, Bosnia and Herzegovina.
- 1998–2003 **High school teacher of Mathematics and Physics**, *Faculty of Natural Sciences and Mathematics*, Tuzla, Bosnia and Herzegovina.

Work Experience

- 2017– **Assistant Professor**, *Faculty of Natural Sciences and Mathematics, University of Tuzla*, Tuzla, Bosnia and Herzegovina.
Numerical and computational mathematics, Basic Mathematics
- 2014–2017 **Teaching Assistant**, *Faculty of Natural Sciences and Mathematics, University of Tuzla*, Tuzla, Bosnia and Herzegovina.
Numerical and computational mathematics, Basic Mathematics
- 2003–2014 **High School Teacher of Mathematics**, *Gymnasium "Meša Selimović"*, Tuzla, Bosnia and Herzegovina.

Papers

- 2020 V. D. Liseikin, **S. Karasuljić**, "Numerical Analysis of Grid-Clustering Rules for Problems with Power-Type of Kind 1 Boundary Layers", *Computational Technologies* 25(1) (2020), pp. 49–65.
- 2019 **S. Karasuljić**, H. Zarin and E. Duvnjaković, "A class of difference schemes uniformly convergent on a modified Bakhvalov mesh", *Journal of Modern Methods in Numerical Mathematics* 10:(1-2) (2019), pp. 16-35 .

- 2018 **S. Karasuljić**, E. Duvnjaković and E. Memić, "Uniformly Convergent Difference Scheme for a Semilinear Reaction-Diffusion Problem on a Shishkin Mesh", *Advances in Mathematics: Scientific Journal* 7.(1) (2018), pp. 23-38.
- 2017 **S. Karasuljić**, E. Duvnjaković, V. Pasic and E. Baraković, "Construction of a global solution for the one dimensional singularly-perturbed boundary value problem", *Journal of Modern Methods in Numerical Mathematics* 8.(1-2) (2017), pp. 52-65.
- 2015 **S. Karasuljić**, E. Duvnjaković and H. Zarin, "Uniformly Convergent Difference Scheme for a Semilinear Reaction-Diffusion Problem", *Advances in Mathematics: Scientific Journal* 4.2 (2015), pp. 139-159.
- 2015 E. Duvnjaković, **S. Karasuljić**, V. Pašić and H. Zarin, "A Uniformly Convergent Difference Scheme on a Modified Shishkin Mesh for the Singularly Perturbed Reaction-Diffusion Boundary Value Problem", *Journal of Modern Methods in Numerical Mathematics* 6.1 (2015), pp. 28-43.
- 2011 E. Duvnjaković, **S. Karasuljić**, "Difference Scheme for Semilinear Reaction-Diffusion Problems on a Mesh of Bakhvalov Type", *Mathematica Balkanica* 25.5 (2011), pp. 499-504 .
- 2010 E. Duvnjaković, N. Okičić, **S. Karasuljić**, "Difference Scheme for Semilinear Reaction-diffusion Problem", *14th International Research/Expert Conference Trends in the Development of Machinery and Associated Technology TMT 2010, 7. Mediterranean Cruise.* (2010), pp. 793-796.

Conferences

- 2019 V.D. Liseikin, A.N. Kudryavtsev, V.I. Paasonen, **S. Karasuljić**, A.V. Mukhortov, A. V., "On Rules for Grid Clustering in the Zones of Boundary and Interior Layers". *Mathematics and its Applications. International Conference in honor of the 90th birthday of Sergei K. Godunov, Novosirsk, Russia,* (2019), pp. 275
- 2015 **S. Karasuljić**, E. Duvnjaković, "Construction of the Difference Scheme for Semilinear Reaction-Diffusion Problem on a Bakhvalov Type Mesh ", *The Ninth Bosnian-Herzegovinian Mathematical Conference, Sarajevo, BiH.* 2015.

- 2012 E. Duvnjaković, **S. Karasuljić**, "Collocation Spline Method for Semilinear Reaction–Diffusion Problem on Shishkin Mesh", 2nd International Euroasian Conference on Mathematical Scientific and Applications, Sarajevo, BiH, 26-29. August 2013.
- 2012 E. Duvnjaković, **S. Karasuljić**, "Class of Difference Schemes for Semilinear Reaction - Diffusion Problem on Shishkin Mesh", MASSE, International Congress on Mathematics, MICOM 2012, Sarajevo, BiH, 19.09.-23.09.2012.
- 2012 **S. Karasuljić**, E. Duvnjaković, "Difference Scheme for Semilinear Reaction-Diffusion Problem", The Seventh Bosnian-Herzegovinian Mathematical Conference, Sarajevo, BiH, August, 16,2012.
- 2011 E. Duvnjaković, **S. Karasuljić**, "Difference Scheme for Semilinear Reaction-Diffusion Problems on a Mesh of Bakhvalov type", TEMPUS PROJECT, SEE Doctoral Year Evaluation Workshop, Skopje, Novembar, 10-12,2011.
- 2011 E. Duvnjaković, **S. Karasuljić**, "Uniformly Convergent Difference Scheme for Semilinear Reaction-Diffusion Problem", Conference on Applied Mathematics and Scientific Computing, Trogir, Croatia, June 13-17, 2011., pp. 25.

Research Project

- 2017–2018 *Numerical solving of quasilinear singularly perturbation one-dimensional boundary problem*, Federal Ministry of Science.
Leader

Mentorship

- 2019 Irma Zenunović, Faculty of Natural Sciences and Mathematics, University of Tuzla, Graduate (in progress).
- 2019 Hidajeta Ljevaković, Faculty of Natural Sciences and Mathematics, University of Tuzla, Graduate (in progress).