

Curriculum Vitae

Dr Tibor Lukić, Full Professor

Born: 13-02-1974

Contact Information

Chair of Mathematics
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Academic Qualifications

- Ph.D. in Applied Mathematics, Faculty of Technical Sciences, University of Novi Sad, 2011.
Thesis: Regularized Problems in Image Processing. Advisers: Nataša Sladoje, Ph.D, and Joakim Lindblad, Ph.D.
- M.Sc. in Numerical Mathematics, Faculty of Science, University of Novi Sad, 2004.
- M.Sc in Applied Mathematics, Faculty of Technical Sciences, University of Novi Sad, 2008.

Work Experience

- Full Professor, Faculty of Technical Sciences, University of Novi Sad, from 2022
- Associate Professor, Faculty of Technical Sciences, University of Novi Sad, 2017-2022
- Assistant Professor, Faculty of Technical Sciences, University of Novi Sad, 2012-2017
- Teaching Assistant, Faculty of Technical Sciences, University of Novi Sad, 1998-2012

Selected Publications (a complete list: [Google Scholar profile](#))

1. **Tibor Lukic** and Peter Balazs, Limited-view binary tomography reconstruction assisted by shape centroid, The Visual Computer, Springer, Vol. 12, pp. 1-11, 2021.
2. Marina Marčeta and **Tibor Lukic**, Regularized graph cuts based discrete tomography reconstruction methods, Journal of Combinatorial Optimization, Springer, 2021. <https://doi.org/10.1007/s10878-021-00730-4>
3. **Tibor Lukic** and Peter Balazs, Shape circularity assisted tomography reconstruction, Physica Scripta, IOP Publishing, Volume 95, Number 10, pp. 105211, 2020.
4. Benedek Nagy and **Tibor Lukic**, Binary tomography on the isometric tessellation involving pixel shape orientation, IET Image Processing, Vol. 14, pp. 25-30, 2020.

5. **Tibor Lukic** and Jovisa Zunic, A non-gradient-based energy minimization approach to image denoising problem, Inverse Problems, Vol. 30 (095007), IOP Publishing, 2014.

Previous Projects

1. "2D-3D data processing for the needs of cultural heritage in Carpathian Basin". Granted by the Hungarian Academy of Sciences. Duration: 2018-2019. Position: **project leader**.
2. CEEPUS, network: "Medical Imaging & Medical Information Processing". Duration: 2006-present. Position: **local coordinator**.
3. COST-Action TD 1201. "Colour and Space in Cultural Heritage (COSCH)". Duration: 7 November 2012 - 6 November 2016. Position: **Management Committee Substitute member**.
4. Innovative scientific and artistic research in the field of FTN activities, Faculty of Technical Sciences, Novi Sad, Serbia, 2019-now. Position: project member.
5. Advanced Techniques of Cryptology, Image Processing and Computational Topology for Information Security", grant OI 174008 of the Ministry of Sciences of the Republic of Serbia. Duration: 2011-2020. Position: **local project leader**.
6. "Development of new information and communication technologies, based on advanced mathematical methods, with applications in medicine, telecommunications, power systems, protection of national heritage and education", grant III 044006 of the Ministry of Sciences of the Republic of Serbia. Duration: 2011- 2020. Position: **local project leader**.
7. "Models, Languages, Types, and Process in Informatics", grant 144029 of the Ministry of Sciences of the Republic of Serbia. Duration: 2006-2010. Position: **project member**.
8. "Operating Equations", grant 1840 of the Ministry of Sciences, Technology and Development of Serbia. Duration: 2002-2005. Position: **project member**.
9. Mathematical Models in Information Technologies MMIT, Provincial Secretariat for Science and Technological Development, AP Vojvodina. Duration: 2006-2010: 2005-2010. Position: **project member**.
10. Doctoral School towards European Knowledge Society, TEMPUS Project JEP - 41099 - 2006. Duration: 2007- 2009, Position: **project member**.

Visiting Researcher

- University of J. Selye, Department of Informatics, Intelligent Robotics Centre, Komarno, Slovakia, September 2022.
- University of Szeged, Department of Image Processing and Computer Graphics, Szeged, Hungary, April 2022.
- University of Debrecen, Department of Computer Sciences, Debrecen, Hungary, July-August 2015.
- University of Exeter, College of Engineering, Mathematics and Physical Sciences, Exeter, United Kingdom, December 2013.
- University of Szeged, Department of Image Processing and Computer Graphics, Szeged, Hungary, April 2010.
- University of Udine, Department of Mathematics and Computer Science, Udine, Italy, October 2008-January 2009.
- Budapest University of Technology and Economics, Institute of Mathematics,

Budapest, Hungary, September 2006.

- University of Szeged, Department of Image Processing and Computer Graphics, Szeged, Hungary, July 2006.

Conference committee memberships

- **General Chair** of the 31th Summer School on Image Processing (SSIP23), Novi Sad, Serbia, July 2023.
- **General Chair** of the 20th International Workshop on Combinatorial Image Analysis (IWCIA), Novi Sad, Serbia. July 16-18, 2020. <https://iwcia2020.wordpress.com/>
- **General Chair** of the 25th Summer School on Image Processing (SSIP17), held in Novi Sad, Serbia. July 13-22, 2017. <http://imft.ftn.uns.ac.rs/ssip2017/>
- **Program committee member** of the 11th International Symposium on Image and Signal Processing and Analysis (ISPA) , 2019-present.
- **Program committee member** of the Second Conference on Mathematics in Engineering: Theory and Applications (META), Novi Sad, Serbia, June 23-24, 2017.
- **Local organizer** of the COST-Action TD 1201, Colour and Space in Cultural Heritage (COSCH), Working Group 2 meeting held at the Faculty of Technical Sciences, University of Novi Sad, Novi Sad, 3-4 March, 2014.
- **Local organizer** of the COST-Action TD 1201, Colour and Space in Cultural Heritage (COSCH), taskforce meeting "Development of recommendations to facilitate integration of knowledge from COSCH study cases in COSCH KR, and of recommendations to facilitate use of COSCH KR in cultural heritage" held at the Faculty of Technical Sciences, University of Novi Sad, Novi Sad, 31. March, 2016.

PhD supervision

1. Slobodan Dražić, PhD thesis title: Shape Based Methods for Quantification and Comparison of Object Properties from Their Digital Image Representation, defended on February 20, 2019, at the Faculty of Technical Sciences, University of Novi Sad. (supervision together with Dr Joakim Lindblad, Uppsala University, Sweden)
2. Marina Sulc, PhD thesis title: Regularized Models for Tomographic Image Reconstruction, in progress, Faculty of Technical Sciences, Novi Sad.
3. Tamara Kopanja, in progress, Faculty of Technical Sciences, Novi Sad.

Other

- **Vice-president** of the Vojvodinian Hungarian Academic Council (VMAT), 2022-present. <https://vmat.rs/rolunk/>