

## Dr Tibor Lukić, full professor

Born: 1974-02-13

### Contact Information

Faculty of Technical Sciences

Trg Dositeja Obradovića 6

+381214852307

tibor@uns.ac.rs

<http://imft.ftn.uns.ac.rs/tibor/>



### *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

### *Citations & h-index*

- Google scholar: 340 citations, h-index 11  
[https://scholar.google.com/citations?user=3bGr\\_4IAAAAJ&hl=en](https://scholar.google.com/citations?user=3bGr_4IAAAAJ&hl=en)

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

1. **Tibor Lukic** and Peter Balazs, Moment preserving tomographic image reconstruction model, Image and Vision Computing, Vol. 146, 105036, Elsevier, 2024.
2. **Tibor Lukic** and Peter Balazs, Limited-view binary tomography reconstruction assisted by shape centroid, The Visual Computer, Springer, Vol. 12, pp. 1-11, 2021.
3. 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>
4. **Tibor Lukic** and Peter Balazs, Shape circularity assisted tomography reconstruction, Physica Scripta, IOP Publishing, Volume 95, Number 10, pp. 105211, 2020.

5. Benedek Nagy and **Tibor Lukic**, Binary tomography on the isometric tessellation involving pixel shape orientation, IET Image Processing, Vol. 14, pp. 25-30, 2020.

#### *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. Innovative scientific and artistic research in the field of FTN activities, Faculty of Technical Sciences, Novi Sad, Serbia, 2019-now. Position: **project member**.
4. COST-Action TD 1201: Colour and Space in Cultural Heritage (COSCH). **Management Committee substitute member**, Duration: November 2012 - November 2016.
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**.

#### *Visiting Researcher*

1. University of Szeged, Department of Image Processing and Computer Graphics, Szeged, Hungary, May-September 2024.
2. University of Szeged, Department of Image Processing and Computer Graphics, Szeged, Hungary, April 2022.
3. University of Debrecen, Department of Computer Sciences, Debrecen, Hungary, July-August 2015.
4. University of Exeter, College of Engineering, Mathematics and Physical Sciences, Exeter, United Kingdom, December 2013.
5. University of Udine, Department of Mathematics and Computer Science, Udine, Italy, October 2008-January 2009.
6. Budapest University of Technology and Economics, Institute of Mathematics, Budapest, Hungary, September 2006.

#### *Conference committee memberships*

1. **General Chair** of the 31th Summer School on Image Processing (SSIP23), held in Novi Sad, Serbia, July 10-16, 2023. <https://imft.ftn.uns.ac.rs/ssip2023/>
2. **General Chair** of the 20th International Workshop on Combinatorial Image Analysis (IW CIA), Novi Sad, Serbia. July 16-18, 2020. <https://iwcia2020.wordpress.com/>
3. **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/>
4. **Steering Committee member**, International Workshop on Combinatorial Image Analysis (IW CIA), 2020 - present. <https://iwcia2025.inf.u-szeged.hu/committees/>
5. **Program Committee member** of the 11th International Symposium on Image and Signal Processing and Analysis (ISPA) , 2019-present.

6. **Program Committee member**, Conference on Mathematics in Engineering: Theory and Applications (META), Novi Sad, Serbia, 2017 - present.

### *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 Marčeta, Regularized Models for Tomographic Image Reconstruction, **defended on April 10, 2024**, at the Faculty of Technical Sciences, University of Novi Sad.
3. Tamara Kopanja, **in progress**, Faculty of Technical Sciences, Novi Sad.

### *Invited Lectures*

1. **Invited lecturer** at the following sessions of the Summer School on Image Processing (SSIP):
  - SSIP2015 Szeged, Hungary - lecture on *Regularized energy-minimization methods in image processing*.
  - SSIP2016 Szeged, Hungary - lecture on *Energy Minimization Methods in Image Processing*.
  - SSIP2017 Novi Sad, Serbia - lecture on *Energy Minimization Methods in Image Processing*.
  - SSIP2018 Graz, Austria - lecture on *Regularized Energy-Minimization Models in Image Processing*.
  - SSIP2019 Timișoara, Romania - lecture on *Regularized Energy-Minimization Models in Image Processing*.
  - SSIP2020 Szeged, Hungary - lecture on *Tomography Image Reconstruction on Conventional and Nonconventional Grids*.
  - SSIP2021 Rijeka, Croatia - lecture on *Mathematical Models in Image Processing*.
  - SSIP2022 Szeged, Hungary - lecture on *Introduction to Mathematical Models in Image Processing*.
  - SSIP2023 Novi Sad, Serbia - lecture on *Mathematical Models and Operators in Image Processing*.
  - SSIP2024 Szeged, Hungary - lecture on *Introduction to mathematical models in tomography, denoising and computer vision*.
  - SSIP2025 Szeged, Hungary - lecture on *Linear and Nonlinear Mathematical Models in Image Processing*.
2. **Plenary speaker** at the 3rd Conference on Mathematics in Engineering: Theory and Applications, May 12-13, 2018, Novi Sad, Serbia.
3. **Plenary speaker** at the 23. Hungarian Scientific Conference of Vojvodina Students (VMTDK), November 30, 2024, Novi Sad, Serbia. [Pannon RTV News](#) [RTV2 News](#)

4. **Invited lecturer** at the Faculty of Informatics and Digital Technologies, University of Rijeka, November 27, 2023, Rijeka, Croatia. Lecture on *Optimization by Simulated Annealing: A Nature-Inspired Approach*.
5. **Invited lecturer** at the Faculty of Economics and Informatics, J. Selye University, November 10, 2025, Komarno, Slovakia. Event: *Science and Technology Week in the Slovak Republic*. Lecture on *Linear and Nonlinear Mathematical Models in Image Processing*.

### *Books and Proceedings*

1. **Tibor Lukic** and Tamara Kopanja, Uvod u varijacioni racun sa primenama u obradi slike, Fakultet tehnickih nauka, Novi Sad, 2021. (textbook for doctoral students in serbian)
2. **Tibor Lukic**, Vladimir Ilic, Ivan Prokic and Jelena Djokic, Matematika 2 - integralni racun i diferencijalne jednacine, udzbenik, Fakultet tehnickih nauka, Novi Sad, 2021. (textbook for undergraduate students in serbian)
3. T. Grbic, S. Likavec, **T. Lukic**, J. Pantovic, N. Sladoje and Lj. Teofanov, Zbirka resenih zadataka iz Matematike I, Fakultet tehnickih nauka, Novi Sad, four editions: 2001, 2004, 2007 and 2009. (textbook for undergraduate students in serbian)
4. **Tibor Lukic**, Reneta P. Barneva, Valentin E. Brimkov, Lidija Comic, Natasa Sladoje: Combinatorial Image Analysis - 20th International Workshop, IW CIA 2020, Novi Sad, Serbia, July 16-18, 2020, Proceedings. Lecture Notes in Computer Science 12148, Springer 2020.
5. **Tibor Lukic** and Buda Bajic, Summer School on Image Processing - 31st SSIP, Novi Sad, Serbia, July 10-16, 2023, Proceedings. Fakultet tehnickih nauka, Novi Sad, Serbia, 2023.

### *Other*

1. **Vice-president** of the Vojvodinian Hungarian Academic Council (VMAT), 2022-present. <https://vmat.rs/rolunk/>
2. **Member** of the Expert Council for Natural and Mathematical Sciences at the University of Novi Sad, 2025 - present.
3. **Certificate of Appreciation** from the Domus Hungarica foundation of the Hungarian Academy of Sciences, November 28, 2022, Budapest, Hungary. [POLITIKA newspaper](#)