

János Tóth

e-mail: toth.janos@inf.unideb.hu

telephone: +36-52-512-900/75121

(updated: 1 February 2018)

Work experience

- **2018 February –**
assistant lecturer (Department of Computer Graphics and Image Processing, Faculty of Informatics University of Debrecen)
- **2017 October –**
researcher (Faculty of Informatics, University of Debrecen)
Research on stochastic search methods to optimize fusion-based systems (within the framework of the project EFOP-3.6.2-16-2017-00015).
- **2015 October – 2015 December; 2016 October –**
researcher (Faculty of Informatics, University of Debrecen)
Development of algorithms to analyze endoscopic videos (within the framework of the project VKSZ_14-1-2015-0072).
- **2012 October – 2015 January**
researcher (Proteomics – Ophthalmology Research Group, Ophthalmology Clinic, University of Debrecen)
Analysis of clinical data to reveal new correlations for the early detection of diabetes (within the framework of the project TÁMOP-4.2.2.A-11/1/KONV-2012-0045).
- **2012 April – 2014 September**
assistant research fellow (Department of Algebra and Number Theory, Institute of Mathematics, Faculty of Science and Technology, University of Debrecen)
Development of methods to extract lattice-based texture features for melanoma detection in skin lesion images (within the framework of the project OTKA NK 101680). Development of novel algorithms to find gene fusions and fissions in large fungal protein databases.
- **2010 June – 2012 February**
developer (Faculty of Informatics, University of Debrecen)
Development of image processing algorithms and visualization tools (within the framework of the project NKTH TECH08-2).

Education

- **2018 January**
doctorate course (PhD) (pre-degree certificate) (Doctoral School of Informatics, University of Debrecen)
- **2010 June**
master of computer science (Faculty of Informatics, University of Debrecen)

Languages

- English (C1 level), German (A1 level), Hungarian (main language)

Other information

▪ Selected publications:

- R. Besenczi, J. Tóth, A. Hajdu: *A review on automatic analysis techniques for color fundus photographs*, Computational and Structural Biotechnology Journal, vol. 14, pp. 371-384, 2016.
- J. Tóth, H. Tomán, A. Hajdu: *Improving the Performance of an Ensemble-Based Exudate Detection System using Stochastic Parameter Optimization*, 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2015), Milan, Italy, 25-29 August 2015, pp. 5243-5246.
- J. Tóth, L. Szakács, A. Hajdu: *Finding the Optimal Parameter Setting for an Ensemble-based Lesion Detector*, IEEE 21st International Conference on Image Processing (ICIP 2014), Paris, France, 27-30 October 2014, pp. 3532-3536.
- J. Tóth, L. Bartha, T. Szabó, I. Lázár, B. Harangi, A. Hajdu: *An Online Application for Storing, Analyzing, and Sharing Dermatological Data*, IEEE 6th International Conference on Cognitive Infocommunications (CogInfoCom 2015), Győr, Hungary, 19-21 October 2015, pp. 339-342.
- J. Tóth, L. Kovács, B. Harangi, Cs. Kiss, A. Mohácsi, Z. Orosz, A. Hajdu: *An Online Benchmark System for Image Processing Algorithms*, IEEE 5th International Conference on Cognitive Infocommunications (CogInfoCom 2014), Vietri sul Mare, Italy 5-7 November 2014, pp. 377-382.

▪ Memberships:

- Industrial Mathematics Research Group, University of Debrecen
- Institute of Electrical and Electronics Engineers (IEEE)
- Hungarian Association for Image Processing and Pattern Recognition, John von Neumann Computer Society