Selected publications:

2017

1. <u>Gábor Lékó</u>, Péter Balázs. **Detecting Steel Cord Discontinuities in Tire Tread X-Ray Images: A Preliminary Study**. *International Journal of Circuits, Systems and Signal Processing* (NAUN) **11** 314-318 (2017).

2018

- 2. <u>Gábor Lékó</u>, Péter Balázs, László G. Varga. (2018) **Projection Selection for Binary Tomographic Reconstruction Using Global Uncertainty**. In: Campilho A., Karray F., ter Haar Romeny B. (eds) Image Analysis and Recognition. ICIAR 2018. Lecture Notes in Computer Science, vol 10882, pp 3-10. Springer, Cham
- 3. <u>Gábor Lékó</u>, Péter Balázs. (2019) **Sequential Projection Selection Methods for Binary Tomography**. In: Barneva R., Brimkov V., Kulczycki P., Tavares J. (eds) Computational Modeling of Objects Presented in Images. Fundamentals, Methods, and Applications. CompIMAGE 2018. Lecture Notes in Computer Science, vol 10986, pp 70-81. Springer, Cham.

2019

- 4. Gergely Pap, <u>Gábor Lékó</u>, Tamás Grósz. (2019) A Reconstruction-Free Projection Selection Procedure for Binary Tomography Using Convolutional Neural Networks. In: Karray F., Campilho A., Yu A. (eds) Image Analysis and Recognition. ICIAR 2019. Lecture Notes in Computer Science, vol 11662, pp 228-236. Springer, Cham
- 5. <u>Gábor Lékó</u>, Szilveszter Domány, Péter Balázs. (2019) **Uncertainty Based Adaptive Projection Selection Strategy for Binary Tomographic Reconstruction**. In: Vento M., Percannella G. (eds) Computer Analysis of Images and Patterns. CAIP 2019. Lecture Notes in Computer Science, vol 11679, pp 74-84. Springer, Cham
- 6. <u>Gábor Lékó</u>, Péter Balazs. **Scale Invariance in Projection Selection using Binary Tomography**. *Fundamenta Informaticae* 172 (2020) 129–142, IOS Press.
- 7. N. Korshunova, J. Jomo, <u>G. Lékó</u>, D. Reznik, S. Kollmannsberger, P. Balázs, and E. Rank. **From CT-Scans to material characterization: linear elastic mechanical behavior.** Computational Engineering, Finance, and Science (cs.CE) (<u>Submitted</u>)

2020

- 8. László G. Varga, <u>Gábor Lékó</u>, Péter Balázs. **Grayscale Uncertainty of Projection Geometries and Projections Sets**. IWCIA 2020. Lecture Notes in Computer Science, Springer. (Accepted for publishing)
- 9. <u>Gábor Lékó</u>, Péter Balázs. **Transmission Based Adaptive Automatic Tube Voltage Selection for Computed Tomography**. IWCIA 2020. Lecture Notes in Computer Science, Springer. (<u>Accepted for publishing</u>)

Other publications:

2017

1. Péter Balázs, <u>Gábor Lékó</u>, Zoltán Ozsvár, Gábor Petrovszki, Judit Szűcs, László Varga. **Design and implementation of the informatical system of a 3D industrial CT scanner**. Abstracts of the 11th Conference of the Hungarian Association of Image Processing and Pattern Recognition, Sovata, Romania, January 24-27, 10 pages (2017) (in Hungarian).

2018

- 2. <u>Gábor Lékó</u>, Péter Balázs, László G. Varga. **Projection selection using uncertainty in binary tomography**. *Abstracts of the 5th Winter School of PhD Students in Informatics and Mathematics, Debrecen, Hungary, 2-5 March, 2018*. pp. 30. ISBN 978-615-5586-23-1.
- 3. <u>Gábor Lékó</u>, Péter Balázs, László G. Varga. **Projection selection with sequential selection methods using different evaluation measures**. *Volume of Short Papers of the 11th Conference of PhD Students in Computer Science, Szeged, Hungary, 25-27 June, 2018, pp. 79*.

2019

4. <u>Gábor Lékó</u>, Péter Balázs, László Varga. **Projection Selection with Sequential Methods and using Global Uncertainty**. *Abstracts of the 12th Conference of the Hungarian Association of Image Processing and Pattern Recognition, Debrecen, Hungary, January 28-31*, 15 pages (2019) (in Hungarian).