Publication list

Cumulative impact factor: 44,978

Number of journal papers: 21

Number of conference proceeding papers: 21

Number of D1/Q1 papers: 2

Number of Q1 papers: 10

Number of Q2 papers: 5

Number of co-authors: 41

Refereed journals:

- G. Kocsis, **I. Varga**,
  gtfs2net: Extraction of General Transit Feed Specification Data Sets to Abstract Networks and Their Analysis,
  Big Data, **13** (1) pp. 30-41 (2025).
  DOI: 10.1089/big.2022.0269 (12 pages)
  Impact factor: ??? [Q2]

- U. Vadadokhau, **I. Varga**, M. Káplár, M. Emri, É. Csősz,
  Examination of the Complex Molecular Landscape in Obesity and Type 2 Diabetes,
  International Journal of Molecular Sciences, **25** (9), p. 4781 (2024).
  DOI: 10.3390/ijms25094781, (13 pages)
  Impact factor: 5.6^{2022} [Q1]

- L. R. Kolozsvári, T. Bérczes, A. Hajdu, R. Gesztelyi, A. Tiba, **I. Varga**, A. B. Al-Tammemi, G. J. Szőllősi, Sz. Harsányi, Sz. Garbóczy, J. Zsuga,
  Predicting the epidemic curve of the coronavirus (SARS-CoV-2) disease (COVID-19) using artificial intelligence: An application on the first and second waves,
  Informatics in Medicine Unlocked **25** p. 100691 (2021).
  DOI: 10.1016/j.imu.2021.100691 (13 pages)
  Impact factor: 6.114^{2021} [Q2]

- **I. Varga**, G. Kocsis,
  Statistical Properties of VANET-based Information,
  Advances in Systems Science and Applications **20**, (4) pp. 36-44 (2021).
  DOI: 10.25728/assa.2020.20.4.895, (9 pages)
  Impact factor: - [Q2]

- **I. Varga**,
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  Advances in Complex Systems **23** (4), 2050009 (2020)
  DOI: 10.1142/S0219525920500095, (10 pages)
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- G. Kocsis, **I. Varga**,
  The effect of moving agents on the network formation in smart-city applications,

Computer modelling and new technologies 23 (1) pp. 44-49 (2019).
DOI: ?, (6 pages)
Impact factor: - [Q4] [2017]

- F. Kun, G. Pál, **I. Varga**, I. G. Main,
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  DOI: 10.1098/rsta.2017.0393, (14 pages)
  Impact factor: 3.093 [D1]

- **I. Varga**,
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  DOI: 10.1140/epjb/e2016-60887-x, (5 pages)
  Impact factor: 1.436 [Q2]

- G. Pál, **I. Varga**, F. Kun,
  Emergence of energy dependence in the fragmentation of heterogeneous materials,
  Physical Review E **90**, 062811 (2014).
  DOI: 10.1103/PhysRevE.90.062811, (8 pages)
  Impact factor: 2.288 [Q1]

- G. Kocsis, **I. Varga**,
  Investigation of spreading phenomena on social networks,
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- G. Kocsis, **I. Varga**,
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- F. Kun, **I. Varga**, S. Lennartz-Sassinek, I.G. Main,
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- G. Pál, **I. Varga**, F. Kun,
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- F. Kun, **I. Varga**, S. Lennartz-Sassinek, I.G., Main,
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- G. Pál, F. Kun, **I. Varga**, D. Sohler, S. Gang,
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- **I. Varga**, F. Kun, N. Ito, W. Wen,
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- **I. Varga**, N. Yoshioka, F. Kun, S. Gang, N. Ito,
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- **I. Varga,**
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- **I. Varga,**
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- **I. Varga**,
  A Case Study of Genealogical Networks from Network Science Perspective,
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  DOI: 10.5220/0011723800003485 (6 pages), acceptance ratio: ???%
- G. Kocsis, **I. Varga**,
  Extracting Mass Transportation Networks from General Transit Feed Specification Datasets,
  Proceedings of the 7th International Conference on Complexity, Future Information Systems and Risk, SCITEPRESS, ISBN: 978-989-758-565-4, pp. *85-91* (2022).
  DOI: 10.5220/0000159400003197 (7 pages), acceptance ratio: 19%
- A. Ilyés, T. Kovács, G. Tisza, **I. Varga**,
  Spatial characteristics of communication in urban vehicular system,
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  DOI: 10.5220/0009464001080112 (5 pages), acceptance ratio: 50%
- A. Bérczes, T. Bérczes, **I. Varga**, A. Tiba, J. Zsuga,
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  10th IEEE International Conference on Cognitive InfoCommunications,
  pp. 53-60 (2019).
  DOI: 10.1109/CogInfoCom47531.2019.9089931 (7 oldal)
- Z. Gal, **I. Varga**, T. Tajti, G. Kocsis, Z. Langmajer, M. Kosa, J. Panovics,
  Performance evaluation of massively parallel communication sessions,
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- **I. Varga,** A. Némethy, G. Kocsis**,**
  Agent-based simulation of information spreading in VANET,
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  Lecture Notes in Computer Science, Volume 11115,
  Springer International Publishing Switzerland, ISBN: 978-3-319-99812-1, pp.

166-174 (2018).
DOI: 10.1007/978-3-319-99813-8_15 (9 oldal), acceptance ratio: 57%

- **I. Varga**,
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- **I. Varga**,
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- **I. Varga**, G. Kocsis,
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- **I. Varga**, A. Németh, G. Kocsis,
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- G. Kocsis, **I. Varga**,
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Domestic/Hungarian conference proceedings:

- **Varga I.**,
  Járműforgalom és információterjedés szimuláció,
  XXII. Energetika-Elektrotechnika és XXXI. Számítástechnika és Oktatás Multi-konferencia, Erdélyi Magyar Műszaki Tudományos Társaság, ISSN 2734-6757, pp. 86-92 (2021).
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- **Varga I.**, Szilágy Sz.,
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  Informatika a felsőoktatásban 2017
  Debrecen, Magyarország, ISBN 978-963-473-213-6, pp. 167-173 (2017).
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- **Varga I.**,
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- **I. Varga**,
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PRACE Autumn School 2016,
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- F. Kun, **I. Varga**, S. Lennartz-Sassinek, I.G., Main,
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- Z. Jánosi, **I. Varga**,
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  40th Conference of the Middle European Cooperation in Statistical Physics,
  Esztergom, Hungary, 23-25 March 2015, pp. 72-73.
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- G. Kocsis**, I. Varga**,
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- G. Pál, **I. Varga**, F. Kun,
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- F. Kun, **I. Varga**, G. Pál, S. Lennartz-Sassinek, I. Butler, I.G. Main,
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- **I. Varga**,
  A Case Study of Genealogical Networks from Network Science Perspective,
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  Prague, Czech Republic, 22-23 April 2023
- **Varga I.**,
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  24. Gyires Béla Informatikai Nap,
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- **Varga I.**,
  Járműforgalom és információterjedés szimuláció,
  XXII. Energetika-Elektrotechnika és XXXI. Számítástechnika és Oktatás Multi-konferencia,
  Online, 16 October 2021
- I. Bordán, **I. Varga**,
  Genealogical networks: a case study from the perspective of network science
  Conference on Information Technology and Data Science, CITDS 2020
  Online, November 6–8, 2020
- A. Ilyés, T. Kovács, G. Tisza, **I. Varga**,
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  Como, Italy, 17-21 September 2018.
- **Varga I.**,
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  Budapest, Hungary, 08. november 2017.
- **Varga I.**, Szilágyi Sz.,
  Mintatantervek és a hálózattudomány, vagyis az előfeltételi hálók tulajdonságai,
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- **I. Varga**,
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- **Varga I.**,
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- **I. Varga**, G. Kocsis,
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- **I. Varga**, G. Kocsis,
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- **Varga I.,**
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- **Varga I.,**
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  Science&Cake, University of Debrecen, Faculty of Informatics, Debrecen,
  01 December 2016.
- **Varga I.,**
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- **Varga I.**
  Fizikai kísérletek az óvodában,
  'Gyermek és Nevelés' szakmai műhely,
  Hajdúböszörmény, Hungary, 07 May 2009.
- **Varga I.,**
  Az ERŐ legyen veletek,
  Tudomány napja 2007,
  Hajdúböszörmény, Hungary, 07 November 2007.
- **Varga I.,**
  Mágneses részecskék síkbeli rendeződése,
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Dissertation

- **I. Varga,**
  Computer simulation and modeling of complex systems and networks,
  University of Debrecen, Faculty of Informatics, habilitation dissertation (2016)
- **I. Varga**,
  Structure formation in binary dipolar monolayers
  University of Debrecen, Faculty of Science and Technology, Ph.D. Dissertation, 109 pages (2008)

Lecture notes:

- **I. Varga**
  Algorithms and basics of programming,
  University of Debrecen, Faculty of Informatics, 100 pages (2020).
- **Varga I.**
  Rendszerközeli programozás,
  University of Debrecen, Faculty of Informatics, 32 pages (2020).

- **Varga I.**,
  Környezeti nevelés és módszertana
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- **Varga I.**,
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  University of Debrecen, Faculty of Child and Adult Education, 41 pages (2008)