Lista de lucrări

Numele şi prenumele: Filep Levente

A. Teza de doctorat.

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

- Filep Levente, Garda-Mátyás Edit, Oláh-Gál Róbert: Excel közgazdász- és mérnökjelölteknek (Excel pentru studenţi la economie şi ştiinţe inginereşti), Ed. Scientia, Cluj-Napoca, 2021, ISBN 978-606-975-053-7, 190 pagini.

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

B5. Capitole de cărți publicate în străinătate

B6. Capitole de cărți publicate în țară

C. Lucrări ştiințifice publicate

C1. Lucrări ştiințifice publicate în reviste cotate ISI

- L. Filep, Z. Gál, "Towards Complementing the Algorithm Selection Process with Performance Estimation from Low-Dimensional Knee Point Data", Swarm and Evolutionary Computation, 107, 102455, 2026. doi: https://doi.org/10.1016/j.swevo.2026.102455 (IF: 9.6; Q1 / D1)

- L Filep: Challenges and Decisions in WOBCompute Design, a P2P Computing System Architecture. Ali R., Kaindl H., Maciaszek L.A. (eds) Evaluation of Novel Approaches to Software Engineering. ENASE 2020. Communications in Computer and Information Science, vol 1375. Springer, Cham (2021). https://doi.org/10.1007/978-3-030-70006-5_6

C2. Lucrări ştiințifice publicate în reviste indexate în baze de date internaționale (indicați şi baza de date).

- Filep Levente, Illyés László: Exact fit problem generator for cutting and packing, *Acta Universitatis Sapientiae, Informatica*, Vol. 10,1 (2018), 73–85 (ISSN: 1844-6086 (Print) 2066-7760 (Online), DOAJ, EBSCO, Zentralblatt fur Mathematics, **Web of Science**)
- L. Filep, Z. Gál: Synergic Impact of Reinforcement Learning and Swarm Intelligence in Wireless Sensor Network Services, Eng. Proc. 2025, 108, 36. https://doi.org/10.3390/engproc2025108036 (Scopus)

C3. Lucrări ştiinţifice publicate în reviste din străinătate (altele decât cele menţionate anterior).

C4. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS (altele decât cele din baze de date internaţionale).

C5. Lucrări ştiinţifice publicate în reviste, altele decât cele menţionate anterior

- **Filep Levente:** JavaScript alapok helyesen, *Firka*, Vol. 2017-2018, No 4, (2018), 22–28 (ISSN 1224-371X)

- **Filep Levente:** JavaScript alapok helyesen – II, *Firka*, Vol. 2018-2019, No 1, (2018) 16–20 (ISSN 1224-371X)

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

- L. Filep: Model for Improved Load Balancing in Volunteer Computing Platforms, *Information Systems*, Limassol, Cyprus, Springer (2019) LNBIP 341, pp. 131–143 (ISBN 978-3-030-11395-7, ISSN 1865-1348)
- L. Filep: WOBCompute: Architecture and Design Considerations of a P2P Computing System, Proceedings of the 15th International Conference on Evaluation of Novel Approaches to Software Engineering - Volume 1, ENASE, INSTICC, SciTePress (2020), pp. 39-49 doi: 10.5220/0009343100390049
- D. Talbi, L. Filep and Z. Gal, "On the Required Iteration Number of the Representant Swarm Intelligence Algorithms Based on Coefficient of Variation," 2023 9th International Conference on Optimization and Applications (ICOA), AbuDhabi, United Arab Emirates, 2023, pp. 1-6, doi: 10.1109/ICOA58279.2023.10308851
- L. Filep, P. Polgar, Z. Gal. "Energy Consumption Based Analysis of the Swarm Intelligence Routing Mechanisms in Wireless Sensor Networks", 2024 Automation, Robotics & Communications for Industry 4.0/5.0, Innsbruck, Austria, 2024, pp. 249–255. doi: 10.13140/RG.2.2.20923.18722
- L. Filep, Z. Gal. "Effects of Random Number Generation Methods on Swarm Intelligence Algorithms", The 2024 IEEE 3rd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2024, doi: 10.1109/CITDS62610.2024.10791391
- P. Polgar, L. Filep and z. Gal. "Design of the Simulation Analysis Tool for Wireless Sensor Network", The 2024 IEEE 3rd Conference on Information Technology and Data Science (CITDS), Debrecen, Hungary, 2024, doi: 10.1109/CITDS62610.2024.10791370
- L. Filep, W. Khelifi and Z. Gal, "Benchmarking Swarm Intelligence Algorithms for Energy-Aware Clustering in Wireless Sensor Networks using Multiple Metrics", International Conference on Optimization and Applications (ICOA2025), Kenitra, Morocco, 2025, doi: https://doi.org/10.1109/ICOA66896.2025.11236846

- Filep, L., Gál, Z. (2026). “A Comparative Study of Fitness Function Variants for Energy-Efficient Clustering in Wireless Sensor Networks.” 13th International Conference on Applied Informatics (ICAI 2026), Eger, Hungary, 19–21 February 2026.
- Filep, L., Gál, Z. (2026). “Empirical Analysis of Swarm Intelligence Convergence Curves in WSN Energy Optimization.” 2026 IEEE 4th Conference on Information Technology and Data Science (CITDS 2026), Debrecen, Hungary, 27–28 August 2026. IEEE. ISBN: 979-8-3195-0700-6.

D. Traduceri de cărți, capitole de cărți, alte lucrări ştiințifice

E. Editare, coordonare de volume

F. Invenții.

G. Contracte de cercetare (menționați calitatea de director sau membru)

H. Creația artistică

H1 Participări la manifestații artistice internaționale

H2. Participări la manifestații artistice naționale

H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale

H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale

H5. Produse cu drept de proprietate intelectuală în domeniul artistic

D

E I. Premii, distincții.

J. Citări

K. Participări la conferințe naționale şi internaționale

- 16-18 nov. 2018. A Magyar Tudomány Napja Erdélyben, Paraid, Romania, titlul expunerii: Rețele de calcul distribuite bazate pe voluntari
- 4-5 oct. 2018. 15th European, Mediterranean, and Middle Eastern Conference, EMCIS 2018, Limassol, Cyprus, titlul expunerii: Model for Improved Load Balancing in Volunteer Computing Platforms
- 14-17 iun. 2018. 12th Joint Conference on Mathematics and Computer Science, Cluj-Napoca, Romania, titlul expunerii: Prototyping a hybrid P2P computational framework: challenges and benefits
- 23-26 mai. 2018. History of Mathematics & Teaching of Mathematics, Miskolc, Ungaria, titlul expunerii: Using Excel Graphic in teaching of mathematics in Higher Education
- 04-05 oct. 2018. 15th European, Mediterranean, and Middle Eastern Conference, EMCIS 2018, Limassol, Cyprus
- 07-09 feb. 4th Winter IFSA Conference on Automation, Robotics & Communications for Industry 4.0/5.0 (ARCI' 2024), Innsbruck, Austria, titlul expunerii: Energy Consumption

Based Analysis of the Swarm Intelligence Routing Mechanisms in Wireless Sensor Networks.

- 05-06 mai. 2020. 15th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2020, Prague, Czech Republic
- 26–28 aug. 2024. The 2024 IEEE 3rd Conference on Information Technology and Data Science, CITDS 2024, Debrecen, Hungary
- 15–17 nov. 2024. A 15-a Conferinţă de Matematică şi Informatică cu Aplicaţii, Miercurea-Ciuc, România, titlul expunerii: Evoluţia performanţei algoritmilor de Swarm Intelligence
- 25-27 apr. 2025. 2025 IEEE 5th International Conference on Electronic Communications, Internet of Things and Big Data, ICEIB, New Taipei, Taiwan, titlul expunerii: Synergic Impact of the Reinforcement Learning and Swarm Intelligence in the WSN Services.
- 08-12 sept. 2025. 10th International Mathematics and Informatics Conference, titlul expunerii: Performance Evolution of Swarm Intelligence Algorithms.
- 16-17 October 2025. International Conference on Optimization and Applications (ICOA2025), titlul expunerii: Benchmarking Swarm Intelligence Algorithms for Energy-Aware Clustering in Wireless Sensor Networks using Multiple Metrics
- 19-21 February 2026. 13th International Conference on Applied Informatics (ICAI 2026), titlul expunerii: A Comparative Study of Fitness Function Variants for Energy-Efficient Clustering in Wireless Sensor Networks.
- 27-28 August 2026. 2026 IEEE 4th Conference on Information Technology and Data Science (CITDS 2026), titlul expunerii: Empirical Analysis of Swarm Intelligence Convergence Curves in WSN Energy Optimization.

L. Alte realizări semnificative

Data

02.09.2026

* Conform H.G. 1175/ 2006