Lista de lucrări în domeniul de studii universitare de licenţă informatica*

Numele şi prenumele Pál László

A. Teza de doctorat

Pál, L., *Global optimization algorithms for bound constrained problems*, Universitatea din Szeged, 2011.

B. Cărti publicate

Autor (autori), titlu, editura, locul, anul, nr. ISBN, nr. pagini

B1. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. Bánhelyi, B., Csendes, T., Lévai, B., **Pál, L**., Zombori, D., The GLOBAL optimization algorithm (Newly Updated with Java Implementation and Parallelization), Springer International Publishing, ISBN: 978-3-030-02374-4, 2018.

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

1. **Pál L.**, Máté Sz., *Alkalmazásfejlesztés Delphiben (Dezvoltarea aplicaţiilor în Delphi)*, Ed. Scientia, Cluj-Napoca, 2009, ISBN 978-973-1970-16-5.

2. **Pál L.**, *Global optimization algorithms for bound constrained problems*, Ed. Scientia, Cluj-Napoca, 2014, ISBN 978-973-1970-74-5.

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

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

Numai cele care au nr. ISBN.

B5. Capitole de cărţi publicate în străinătate

B6. Capitole de cărţi publicate în ţară

C. Lucrări ştiinţifice publicate

Autor (autori), titlu, revista, volumul, nr, anul, pagini (de la … – la…), eventual nr. ISSN

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

1. Csendes, T., **Pál, L.**, Sendín, J.O.H., Banga, J.R., The GLOBAL Optimization Method Revisited, *Optimization Letters*, 2, 4(2008), 445-454. (IF: 1.654)

2. **Pál, L.**, Csendes, T., INTLAB implementation of an interval global optimization algorithm, *Optimization Methods and Software,* 24, 4(2009), 749-759. (IF: 0.651)

3. Pošík, P., Huyer, W., **Pál, L.**, A Comparison of Global Search Algorithms for Continuous Black-Box Optimization. *Evolutionary Computation*. Vol. 20, No. 4: 509–541, 2012. (IF: 2.109)

4. **Pál, L.**, Csendes, T., Markót, M.C., and Neumaier, A., Black-box optimization benchmarking of the GLOBAL method. *Evolutionary Computation,* Vol. 20, No. 4: 609–639, 2012. (IF: 2.109)

5. **Pál, L.**, Empirical study of the improved UNIRANDI local search method, *CEJOR*, Vol. 25, 4: 929–952, 2017.

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date)

1. Illyés, L., **Pál, L.**, Generalized particular covering problem with genetic algorithms, *AMO–Advanced Modeling and Optimization*, 7, 2005, 1, 1-7. (MR2304343)

2. **Pál, L.**, Oláh-Gál, R., Makó, Z., Shepard interpolation with stationary points, *Acta Universitatis Sapientiae*, *Informatica*, 1, 2009, 1, 5-13. (Zbl pre05562320).

3. Oláh-Gál**,** R., **Pál, L.**, Some notes on drawing twofolds in 4-dimensional Euclidean space, *Acta Universitatis Sapientiae*, *Informatica*, 1, 2009, 2, 125-133. (Zbl. pre05605529).

4. **Pál L.** és Csendes T., An interval based global optimization method and its application to sensor localization (Egy intervallum alapú globális optimalizálási módszer és alkalmazása szenzor lokalizálási feladatra – în limba maghiară). *Alkalmazott Matematikai Lapok*, 28 2011, 17-39. (Zbl pre06223962)

5. **Pál L.,** Asset allocation strategies using covariance matrix estimators, Acta Economica Sap., accepted, 2021.

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

1. **Pál L.**, Peer-to-Peer hálózatok: múlt, jelen, jövő, Krónika, X. Évfolyam, 65 szám, 16. oldal, 2008.

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

1. Oláh-Gál, R., **Pál, L.**, Discrete approximation, *Proceedings of the 6th International Conference on Applied Informatics (ICAI 2007)*, B.V.B. Nyomda és Kiadó Kft., Eger, Hungary, 2004, 409-415. (Zbl 1074.68507)

2. **Pál, L.**, Presentation of the Sapi-Cut program package, *Proceedings of Workshop on Cutting Stock Problems 2005*, Miercurea-Ciuc, 2005, 65-73.

3. **Pál, L.**, A genetic algorithm for the two-dimensional Single Large Object Placement Problem, *Proceedings of the 3rd Romanian-Hungarian Joint Symposium on Applied Computational Intelligence*, Timişoara, 2006, 253-260.

4. **Pál, L.**, Csendes, T., Improvements on the GLOBAL optimization algorithm with numerical tests, *Proceedings of the 7th international conference on applied informatics (ICAI 2007)*, B.V.B. Nyomda és Kiadó Kft., Eger, Hungary, 2007, 101-108. (Zbl pre05662513)

5. Csendes, T., **Pál, L.**, A basic interval global optimization procedure for Matlab/INTLAB, *Proceedings of International Symposium on Nonlinear Theory and its Applications (NOLTA2008)*, Budapest, 2008, 592-595.

6. **Pál L.**, Globális optimalizálási algoritmusok korlátos feladatokra, Doktorandus fórum, Csíkszereda, 2010, 120-127.

7. **Pál, L.**, Csendes, T., Efficient estimation of loads in service networks, *Proceedings of the 10th International Conference on Applied Informatics (ICAI2010)*, B.V.B. Nyomda és Kiadó Kft., Eger, Hungary, 2011, 621–629.

8. **Pál, L.**, Benchmarking a Hybrid Multi Level Single Linkage Algorithm on the BBOB Noiseless Testbed, *GECCO 2013: Genetic and Evolutionary Computation Conference Companion*, ACM New York, 2013, 1145–1152. (doi: 10.1145/2464576.2482692)

9. **Pál, L.**, Comparison of Multistart Global Optimization Algorithms on the BBOB Noiseless Testbed, *GECCO 2013: Genetic and Evolutionary Computation Conference Companion*, ACM New York, 2013, 1153–1160. (doi: 10.1145/2464576.2482693)

10. **Pál, L.**, Wireless sensor network localization using a multistage approach, *SACI 2014: Proceedings of the 9th IEEE International Symposium on Applied Computational Intelligence and Informatics*, Timişoara, 2014, 253-257 (DOI: 10.1109/SACI.2014.6840071).

11. **Pál, L**., Csendes T., An improved stochastic local search method in a multistart framework, *In Proceedings of the 10th IEEE International Symposium on Applied Computational Intelligence and Informatics*, Timişoara, 2015, 117-120 (DOI: 10.1109/SACI.2015.7208182), IEEE.

12. B Bánhelyi, T Csendes, B Lévai, D Zombori, **L Pál**, Improved versions of the GLOBAL optimization algorithm and the globalJ modularized toolbox, AIP Conference Proceedings, 2070, 020022 (2019).

13. Tamás Simon Lehel, Pál László, Részvényportfóliók optimalizálása webszolgáltatások segítségével, Studium sorozat, Szerk. Tánczos L. J. és Makó Z., T3 Kiadó, Sepsiszentgyörgy, oldalszám, 2019. (ISSN 2286 – 0363 ISSN-L 2286 – 0363)

D. Traduceri de cărţi, capitole de cărţi, alte lucrări ştiinţifice

E. Editare, coordonare de volume

1. **Pál, L.** (editor), *Proceedings of Workshop on Cutting Stock Problems 2005*, Alutus, Miercurea-Ciuc, 2005, 100 pag. ISBN (13) 978-973-7875-28-0
2. **Pál, L.** (editor), *Proceedings of Conference on Chalanges in the Carpathian Basin – Inovation and technology in the knowledge based economy*, Risoprint, Cluj-Napoca, 2018, ISBN 978-973-53-2249-6
3. **Pál, L.** (editor), *Proceedings of Conference on Chalanges in the Carpathian Basin – Global Challenges – Local Answers. Interdependencies or Slobalization*, Risoprint, Cluj-Napoca, 2021, ISBN 978-973-53-2752-1

F. Invenţii

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

1. „*Cercetări de geometrie diferenţială asistată de calculator*”, Grant IPC Sapientia, 2002-2004, membru.

2. „*Two dimensional cutting stock problems with genetic algorithms*”, Grant IPC Sapientia, 2004-2006, membru.

3. „*Development of Global Optimization Methods and Their Application for Specific Hard Problems*”, Grant bilateral (Austria-Ungaria), 2008-2009, membru

4. „*Dezvoltarea şi testarea programei de optimizare GLOBAL*”, Grant suportat de Academia Științifică Maghiară, 2008 (august-septembrie), director

5. „*Testarea şi compararea unei metode de optimizare globală*”, Grant suportat de Fundația Eurotrans, 2008 (noiembrie), director

6. „*Dezvoltarea unei metode de optimizare globală folosind aritmetica intervalelor*”, Grant suportat de Academia Științifică Maghiară, 2009 (iulie), director.

7. „*Aplicarea unei noi metode Newton în optimizare globală cu intervale*”, Grant suportat de Fundația Eurotrans, 2009 (3 luni), director.

8. „*Aplicarea şi testarea unei noi metode Newton în optimizare globală cu intervale*”, Grant suportat de Academia Științifică Maghiară, 2009 (3 luni), director.

9. „*Colectarea și prelucrarea datelor bazată pe rețele senzoriale*”, Grant suportat de Guvernul Ungariei și Uniunea Europeană (TÁMOP 4.2.2-8/1/2008-0008), 2009-2011, membru.

10. „*Reliable computational techniques for dynamical systems and their application for open theoretical problems*”, Grant bilateral (Ungaria-Japonia), 2010-2012, membru.

11. „*Elaborarea şi testarea unei metode de optimizare globală de tip multistart*”, Grant IPC Sapientia, 2012-2013, director.

12. „*Optimizarea reţelelor senzoriale*”, Grant suportat de Academia Științifică Maghiară, 2013 (1 lună), director.

13. *„Investigarea unor algoritmi de căutare directă şi aplicarea lor asupra problemelor de alocare a capitalului*”, Grant suportat de IPC Sapientia, 2015-2016 (18 luni), director.

H. Creaţia artistică

H1 Participări la manifestaţii artistice internaţionale

H2. Participări la manifestaţii artistice naţionale

H3. Expoziţii, filme, spectacole, concerte, discuri de autor, opere internaţionale

H4. Expoziţii, filme, spectacole, concerte, discuri de autor, opere naţionale

H5. Produse cu drept de proprietate intelectuală în domeniul artistic

I. Premii, distincţii

J. Citări

1. Csendes, T., **Pál, L.**, Sendín, J.O.H., Banga, J.R., The GLOBAL Optimization Method Revisited, *Optimization Letters*, 2, 2008, 4, 445-454.

1. Fuchs, M., *Uncertainty modeling in higher dimensions: Towards robust design optimization*, PhD dissertation, University of Vienna, 2008. (http://www.martin-fuchs.net/files/mfdissfinal.pdf)
2. Vikal, R. and Goyal, G., TCSC Controller Design Using Global Optimization for Stability Analysis of Single Machine Infinite-Bus Power System, *Proceedings of the 15th International Conference on Intelligent System Applications to Power Systems*, Curitiba, 2009. 1-7. (IEEE)
3. Steenackers, G., Presezniak, F., and Guillaume, P., Development of an adaptive response surface method for optimization of computation-intensive models, *Computers & Industrial Engineering*, 57, 2009, 3, 847-855. (IF: 1.783)
4. Ochoa, S., Repke, J.U., and Woznya, G., A New Algorithm for Global Optimization: Molecular-Inspired Parallel Tempering, *Computer Aided Chemical Engineering*, Springer Book Series, 27, 2009, 279-284. (Editura de cat. B conform Lista SENSE)
5. Lei, Y. and Chen, S., A Reliable Parallel Interval Global Optimization Algorithm Based on Mind Evolutionary Computation, *Fourth ChinaGrid Annual Conference*, Yantai, Shandong, 2009, 205-209. (IEEE)
6. Ochoa, S., Wozny, G., and Repke, J.U., A New Algorithm for Global Optimization: Molecular-Inspired Parallel Tempering, *Computers and Chemical Engineering*, 34, 2010, 12, 2072–2084. (IF: 2.784)
7. Lei, Y., Chen, S., and Yan, Y., A Novel Parallel Interval Exclusion Algorithm, *High Performance Computing and Applications*, Lecture Notes in Computer Science, 5938, 2010, 218-223.
8. Ahrari, A. and Ahrari, R., On the utility of randomly generated functions for performance evaluation of evolutionary algorithms, *Optimization Letters*, 4, 2010, 4, 531-541. (IF: 0.934)
9. Ochoa, S., *Plantwide Optimizing Control for the Continuous Bio-Ethanol Production Process*, PhD Dissertation, 2010. (opus4.kobv.de/opus4-tuberlin/files/2507/ochoa_silvia.pdf)
10. Rios-Coelho, A.C, Sacco, W.F., Henderson, N., A Metropolis algorithm combined with Hooke-Jeeves local search method applied to global optimization, *Applied Mathematics and Computation*, 217, 2010, 2, 843-853. (IF: 1.551)
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12. Srikanthakumar, S. and Chen, W.H., Optimisation-based Verification Process of Obstacle Avoidance Systems for Unicycle-like Mobile Robots, *International Journal of Automation and Computing*, 8, 2011, 3, 340-347.
13. Cheng, M.Y., Huang, K.Y., and Chen, H.M., Dynamic guiding particle swarm optimization with embedded chaotic search for solving multidimensional problems, *Optimization Letters*, 6, 2012, 4, 719-729. (IF: 0.934)
14. Pintér, J.D. and Kampas, F.J., Benchmarking nonlinear optimization software in technical computing environments, *TOP (Journal of the Spanish Society of Statistics and Operations Research)*, 21, 2013, 1, 133-162. (IF: 0.843)
15. Pereira, A.I., Ferreira, O., Pinho, S. P., and Fernandes, M.G.P. Edite, Multilocal Programming and Applications, *Intelligent Systems Reference Library (Springer Book Series)*, *Springer-Verlag Berlin Heidelberg,* 38, 2013, 157-186.
16. Rios, L.M. and Sahinidis, N.V., Derivative-free optimization: A review of algorithms and comparison of software implementations, *Journal of Global Optimization*, 56, 2013, 3, 1247-1293. (IF: 1.307)
17. Abaffy, J. and Galántai, A., An always convergent algorithm for global minimization of univariate Lipschitz functions, *Acta Polytechnica*, 10, 2013, 7, 21-39. (IF: 0.588)
18. Abaffy, J. and Galántai, A., A new method for minimization of real Lipschitz functions, *IEEE 8th International* Symposium *on Applied Computational Intelligence and Informatics (SACI)*, 2013, 95 – 98. (*AUSTRALIAN RESEARCH COUNCIL list. Class C*)
19. Price, C. J., Reale, M., and Robertson, B.L., One side cut accelerated random search, *Optimization Letters*, 8, 2014, 3, 1137-1148. (IF: 0.934)
20. Lemarchand, F., Application of clustering global optimization to thin film design problems, *Optics Express*, 22, 2014, 5, 5166-5176. (IF: 3.5)
21. Srikanthakumar, S., Chen, W.H., Worst-case analysis of moving obstacle avoidance systems for unmanned vehicles, *Robotica*, 2014. DOI: http://dx.doi.org/10.1017/S0263574714000642 (IF: 0.894)
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24. Thomas Wortmanna, Alberto Costa, Giacomo Nannicini and Thomas Schroepfer, Advantages of surrogate models for architectural design optimization, Artificial Intelligence for Engineering Design, Analysis and Manufacturing / Volume 29 / Special Issue 04 / November 2015, pp 471-481. (IF: 0.604)
25. Jeffrey Larson, Stefan M. Wild, A batch, derivative-free algorithm for finding multiple local minima, Optimization and Engineering, Volume 17, Issue 1, pp 205-228, 2015. (IF: 1.233)
26. Mike Preuss, Simon Wessing, Günter Rudolph, Gabriele Sadowski, Solving Phase Equilibrium Problems by Means of Avoidance-Based Multiobjectivization, Springer Handbook of Computational Intelligence, pp 1159-1171, 2015.
27. Fani Boukouvalaa, Ruth Misenerc, Christodoulos A. Floudas, Global optimization advances in Mixed-Integer Nonlinear Programming, MINLP, and Constrained Derivative-Free Optimization, CDFO, European Journal of Operational Research, doi:10.1016/j.ejor.2015.12.018, 2015. (IF: 2.358)
28. JC Armstrong, JA Favorite, Using a derivative-free optimization method for multiple solutions of inverse transport problems, Optimization and Engineering, 2016.
29. ND Austin, AP Samudra, NV Sahinidis, Mixture design using derivative-free optimization in the space of individual component properties, AIChE, 2016.
30. M Rudolph, D Stanescu, J Alvarez, E Foy, The role of oxygen in magnetron-sputtered Ta 3 N 5 thin films for the photoelectrolysis of water, Surface and Coatings, Vol. 324, pp. 620-625, 2017.
31. A.-L. Fehrembach, K. Sharshavina, F. Lemarchand, E. Popov, A. Monmayrant, P. Arguel, and O. Gauthier-Lafaye, 2 × 1D crossed strongly modulated gratings for polarization independent tunable narrowband transmission filters, Journal of Optical Society of America A, Vol. 34, pp. 234-240, 2017.
32. Antonio Candelieri, Ilaria Giordani, Francesco Archetti, Automatic Configuration of Kernel-Based Clustering: An Optimization Approach, LION 2017: Learning and Intelligent Optimization pp 34-49, 2017.
33. Austin, Nick D.. Tools for Computer-Aided Molecular and Mixture Design, Carnegie Mellon University, ProQuest Dissertations Publishing, 2017.
34. Dobjánné Antal Elvira, A matematikai modellezés hatása nemlineáris optimalizálási feladatok megoldásának hatékonyságára, PhD, University of Szeged, 2017.
35. Alberto Costa, Giacomo Nannicini, RBFOpt: an open-source library for black-box optimization with costly function evaluations, Mathematical Programming Computation, Volume 10, Issue 4, pp 597–629, 2018.
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37. Siegfried M. Rump, Mathematically rigorous global optimization in floating-point arithmetic, Optimization Methods and Software, Vol. 33, pp. 771-798, 2018.
38. Benjamin Sauk, Nikolaos Ploskas & Nikolaos Sahinidis (2018) GPU parameter tuning for tall and skinny dense linear least squares problems, Optimization Methods and Software, DOI: 10.1080/10556788.2018.1527331.

39. József Dombi, Tamás Jónás, Zsuzsanna Eszter Tóth, Modeling and long-term forecasting demand in spare parts logistics businesses, International Journal of Production Economics, Vol. 201, pp. 1-17, 2018.
40. Abaffy, J. and Galántai, A., An always convergent algorithm for global minimization of multivariable continuous functions, *Acta Polytechnica*, Vol. 15, 177-195.
41. Martin Rudolph, Synthesis and characterization of magnetron-sputtered Ta_3N_5 thin films for the photoelectrolysis of water, Doctoral thesis, 2017.
42. JC Mendez, AE Efendioglu, JL Guevara, Numerical Investigation Of Vertical Gas–Liquid Separators Using Computational Fluid Dynamics And Statistical Techniques, WIT Transactions on Engineering Sciences, vol. 120, 2018.
43. Luigi Acerbi, Wei Ji, Practical Bayesian Optimization for Model Fitting with Bayesian Adaptive Direct Search, Part of: Advances in Neural Information Processing Systems 30 (NIPS 2017), Poster, 2017.

2. Pál, L., Csendes, T., INTLAB implementation of an interval global optimization algorithm, *Optimization Methods and Software,* 24, 2009, 4, 749-759.

1. Sahinidis, N.V., Global optimization, *Optimization Methods and Software,* 24, 2009, 4-5, 479-482. . (IF: 1.624)
2. Rufo, M.J., Martín, J., and Pérez, C.J., A note on the prior parameter choice in finite mixture models of distributions from exponential families, *Computational Statistics*, 25, 2010, 3, 537-550. . (IF: 0.403)
3. Otero-Muras, I., Banga, J.R., and Alonso A.A.: Characterizing Multistationarity Regimes in Biochemical Reaction Networks. *PLoS ONE*, 7, 2012, 7, e39194. . (IF: 3.23)
4. Wang, K., Chai, Y., Yao, Y., and Li, P., Nonlinear independent component analysis based on interval optimization, *32nd Chinese Control Conference (CCC), China* , 2013, 4602 - 4606. (IEEE)
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6. Balázs Bánhelyi, Endre Palatinus, Balázs L. Lévai, Optimal circle covering problems and their applications, CEJOR, DOI: 10.1007/s10100-014-0362-7, 2014. (IF: 0.787)
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8. Siegfried M. Rump, Mathematically rigorous global optimization in floating-point arithmetic, Optimization Methods and Software, Vol. 33, pp. 771-798, 2018.

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1. Zhu, J., Zhang, W., Pierre Beckers, Integrated layout design of multi-component system, International, *Journal for Numerical Methods in Engineering*, 78, 2009, 6**,** 631 – 651. (IF: 2.055)
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3. Zhu, J., Zhang, W., Xia, L., Zhang, Q. and Bassir, D., Optimal Packing Configuration Design with Finite-Circle Method, *Journal of Intelligent & Robotic Systems*, 67, 2012, 3-4, 185-199. (IF: 1.178)
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5. J Zhu, T Gao, Topology Optimization in Engineering Structure Design, Springer, 2016.

4. Pál, L., Csendes, T., Improvements on the GLOBAL optimization algorithm with numerical tests, *Proceedings of the 7th international conference on applied informatics (ICAI 2007)*, B.V.B. Nyomda és Kiadó Kft., Eger, Hungary, 2007, 101-108.

1. Adewumi, J., Ilemobade, A., and van Zyl, J., Planning Model for Wastewater Reuse System in South Africa, *In Proceedings of Water Distribution Systems Analysis 2008 Conference*, 2009, 1-13, doi: 10.1061/41024(340)10. (ASCE – American Society of Civil Engineers Library)
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5. Pošík, P., Huyer, W., **Pál, L.**, A Comparison of Global Search Algorithms for Continuous Black-Box Optimization, *Evolutionary Computation*, 20, 2012, 4, 509–541.

1. S Salcedo-Sanz, L Carro-Calvo, M Claramunt, A. Castañer and M. Mármol Effectively Tackling Reinsurance Problems by Using Evolutionary and Swarm Intelligence Algorithms, *Risks* 2014, *2*(2), 132-145; (DOAJ, Econis, EconPapers)
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3. R. Debski, High-performance simulation-based algorithms for an alpine ski racer's trajectory optimization in heterogeneous computer systems, International Journal of Applied Mathematics and Computer Science, Volume 24, Issue 3, Pages 551–566, 2014. (IF: 1.39)
4. R. Debski, Gradient-Based Algorithms in the Brachistochrone Problem Having a Black-Box Represented Mathematical Model, Journal of Telecommunications & Information Technology, vol. 1, pp. 32-40, 2014. (Ebsco, Scopus)
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6. S Dou, JB Ajo-Franklin, Full-wavefield inversion of surface waves for mapping embedded low-velocity zones in permafrost, Geophysics, Volume 79, Issue 6 (November 2014). (IF: 1.759)
7. Agoston E. Eiben, Jim Smith, From evolutionary computation to the evolution of things, Nature 521,476–482, (28 May 2015), doi:10.1038/nature14544. (IF: ???)
8. AP Piotrowski, Regarding the rankings of optimization heuristics based on artificially-constructed benchmark functions, Information Sciences, Volume 297, 10 March 2015, Pages 191–201. (IF: 4.038)
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10. T Hu, YP Qiu, HJ Cui, LH Chen, Numerical discretization-based kernel type estimation methods for ordinary differential equation models, Acta Mathematica Sinica, English Series, August 2015, Volume 31, Issue 8, pp 1233-1254. (IF: 0.475)
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15. A Al-Dujaili, S Suresh, N Sundararajan, MSO: a framework for bound-constrained black-box global optimization algorithms, Journal of Global Optimization, 2016.
16. X Wang, RD Haynes, Q Feng, A multilevel coordinate search algorithm for well placement, control and joint optimization, Computers & Chemical Engineering, 2016.
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K. Participări la conferinţe naţionale şi internaţionale

1. Oláh-Gál, R., **Pál, L.**, Discrete approximation, *6th International Conference on Applied Informatics*, Eger, January 27 - 31, 2004.

2. Oláh-Gál R., **Pál L.**, Diszkrét interpoláció stacionárius pontokkal, *Vályi Gyula Emlékkonferencia*, Kolozsvár, BBTE, 2004 november 12-13.

3. **Pál, L.**, Presentation of the Sapi-Cut program package, *Workshop on Cutting Stock Problems 2005*, Miercurea-Ciuc, September 15-17, 2005.

4. **Pál, L.**, A genetic algorithm for the two-dimensional Single Large Object Placement Problem, *3rd Romanian-Hungarian Joint Symposium on Applied Computational Intelligence*, "Politehnica" University of Timisoara, May 25-26, 2006.

5. **Pál L.**, Egy algoritmus a kétdimenziós szabási probléma megoldására, *Bolyai Farkas Emlékkonferencia*, EMTE – Csikszereda, 2006 november 25-26.

6. Csendes, T., **Pál, L.**, Sendín, J.O.H., Banga, J.R., Improvements on the GLOBAL Optimization Algorithm with Numerical Tests, *Veszprém Optimization Conference: Advanced Algorithms (VOCAL)*, December 13-15, 2006.

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10. **Pál L.**, Csendes T., J.O.H. Sendín, J.R. Banga, A GLOBAL optimalizáló algoritmus továbbfejlesztése és alkalmazása, *Martin Lajos Emlékkonferencia*, Kolozsvár, 2007. november 16-17.

11. **Pál, L.**, Matlab Version of the GLOBAL Optimization Method, *The Sixth Conference of PhD Students in Computer Science*, Szeged, Hungary, July 2-5, 2008.

12. **Pál, L.**, A Global Optimization Algorithm for INTLAB, *The Sixth Conference of PhD Students in Computer Science*, Szeged, Hungary, July 2-5, 2008.

13. **Pál, L.**, Csendes, T., An interval global optimization algorithm for INTLAB, *Veszprém Optimization Conference: Advanced Algorithms (VOCAL)*, Veszprém, Hungary, December 15-17, 2008.

14. **Pál L.**, Csendes T., Egy intervallum alapú globális optimalizálási módszer, *XXVIII. Magyar Operációkutatási Konferencia*, Balatonöszöd, 2009. június 8-10.

15. **Pál, L.**, Csendes, T., Estimating network loads in service networks, *8th International Conference on Applied Informatics,* Eger, Hungary, January 27–30, 2010.

16. **Pál L.**, Globális optimalizálási algoritmusok korlátos feladatokra, Doktorandus fórum, Csikszereda, 2010.április 16-17.

17. **Pál, L.**, Csendes, T., Traffic Flow Prediction in Service Networks, *CSCS - Conference of PhD Students in Computer Science*, Szeged, Hungary, June 29 - July 2, 2010.

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19. **Pál, L.**, Csendes, T., Estimating network loads in service networks - the uncertain data case, *14th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics*, ENS de Lyon, France, September 27-30, 2010.

20. **Pál, L.**, Csendes, T., *An INTLAB based global optimization algorithm with an improved Newton step*, *14th GAMM-IMACS International Symposium on Scientific Computing, Computer Arithmetic and Validated Numerics*, ENS de Lyon, France, September 27-30, 2010.

21. **Pál L.**, *Sensor network localization using global optimization techniques*, TÁMOP 4.2.2 "Szenzorhálózat alapú adatgyűjtés és információfeldolgozás" című projekt által szervezett workshop, 2011. április 1., Budapest.

22. **Pál L.**, *Szenzorhálózatok lokalizálása globális optimalizálási algoritmusok segítségével*, Sapientia MatInfo Konferencia, 2011. Június 5., Marosvásárhely.

23. **Pál L.**, Csendes T., *Szenzorhálózatok lokalizálása globális optimalizálási módszerek segítségével*, *XXIX. Magyar Operációkutatási Konferencia*, Balatonöszöd, 2011. szeptember 28-30.

24. **Pál, L.**, Csendes, T., An INTLAB based global optimization algorithm and its application in service networks, *Workshop on Numerical Verification and its Applications*, Waseda University, Tokyo, November 14, 2011.

25. **Pál, L.**, Benchmarking a Multi Level Single Linkage Algorithm with Improved Global and Local Phases, *4th GECCO Workshop for Real-Parameter Optimization*, Amsterdam, July 06-10, 2013.

26. **Pál, L.**, Wireless sensor network localization using a multistage approach, *SACI 2014: Proceedings of the 9th IEEE International Symposium on Applied Computational Intelligence and Informatics*, Timişoara, 2014.

27. **Pál, L**., Csendes T., An improved stochastic local search method in a multistart framework, *SACI 2015: Proceedings of the 10th IEEE International Symposium on Applied Computational Intelligence and Informatics*, Timişoara, 2015.

28. **Pál L.**, Csendes T. , Egy módosított helyi kereső vizsgálata, XXXI. Magyar Operációkutatási Konferencia, Cegléd, 2015.06.10 - 12.

29. **Pál, L.**, Egy módosított direkt kereső eljárás vizsgálata , 6. Matematika és Informatika Alkalmazásokkal Konferencia, Csíkszereda, 2015.11.13 – 15.

30. **Pál, L.**, Portfolio optimization by using the Omega function, *13th Annual International Conference on Economics and Business*, Miercurea Ciuc, 20-22 october, 2016.

31. **Pál, L.**, Sándor, Zs., Makó, Z., A BLP modell alternatív megoldási módszereinek vizsgálata, *XXXII. Magyar Operációkutatási Konferencia*, Cegléd, 2017 május 14-17.

32. Pál, L., Sándor, Zs., Makó, Z., A BLP modell alternatív megoldási módszereinek vizsgálata, 14th Annual International Conference on Economics and Business, Miercurea Ciuc, 10-12 may, 2018.
33. Pál, L., Sándor, Zs., Makó, Z., A BLP modell alternatív megoldási módszereinek vizsgálata, 9. Matematika és Informatika Alkalmazásokkal, Parajd, 2018 november 16-18.

L. Alte realizări semnificative

1. Coautor software de optimizare globală (GLOBAL). Se poate descărca şi folosi în scopuri necomerciale de la www.inf.u-szeged.hu/~csendes/Reg/regform.php

2. Coautor software de optimizare globală bazată pe aritmetica intervalelor (MATLAB/INTLAB). Se poate descărca şi folosi în scopuri necomerciale de la http://www.inf.u-szeged.hu/~csendes/Reg/regform.php

3. Recenzii în reviste: *Annals of Operations Research (ANOR)*, *Journal of Engineering and Computer Innovations (JECI)*, *Applied Mathematics and Computation (AMC), Optimization Letters (OPTL), Computers and Operational Research (COR), Acta Technica Jaurinensis (ATJ), Industrial & Engineering Chemistry Research (IECR), Central European Journal of Operations Research (CEJOR), Journal of Global Optimization (JOGO)*

4. Organizare evenimente ştiinţifice:

    a. Membru în comitetul de organizare al conferinţei "6. Matematika és Informatika Alkalmazásokkal Konferencia", Miercurea-Ciuc, 13-15 noiembrie 2015.
    b. Membru în comitetul de organizare al conferinţei "EME 150 éves", Miercurea-Ciuc, 6-7 noiembrie 2009.
    c. Membru în comitetul de organizare al conferinţei omagiale "Bolyai Farkas", Miercurea-Ciuc, 25-26 noiembrie 2006.
    d. Membru în comitetul de organizare al conferinţei “Workshop on Cutting Stock Problems”, Miercurea-Ciuc, 3-5 iunie 2005.
    e. Membru în comitetul de organizare al conferinţei „Haos în sisteme dinamice”, Miercurea-Ciuc, 3-5 martie 2005.

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