

List of citations

to the publications of Mihály Csaba Markót (without self-citations)

1. **M.Cs. Markót**: Multisection in interval global optimization (in Hungarian). B.Sc. Thesis, Szeged, 1997.
 1. T. Csendes: Optimization methods for process network synthesis — a case study, in: Christer Carlsson and Inger Eriksson (eds.): Global & multiple criteria optimization and information systems quality. Abo Academy, Turku, 1998, pp. 113–132.*
2. A.E. Csallner, T. Csendes, **M.Cs. Markót**: Convergence Properties of Multisection Interval Methods for Global Optimization. Abstracts of the SCAN97 Conference, Lyon, pp. V5–V8.
 1. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Ph. D. Dissertation, Szeged, 1999.
 2. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Thesis. Szeged, 1999.
3. T. Csendes, A.E. Csallner, and **M.Cs. Markót**: Multisection in Interval methods of Global Optimization. Abstracts of the SCAN97 Conference, Lyon, pp. V9–V12, 1997.
 1. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Ph. D. Dissertation, Szeged, 1999.
 2. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Thesis. Szeged, 1999.
 3. J.-L. Lagouanelle, G. Soubry: Optimal Multisection in Interval Branch-and-Bound Methods of Global Optimization. J. Global Optimization 30(2004), pp. 23–38.*
4. A. E. Csallner, T. Csendes and **M.Cs. Markót**: Convergence properties for Multisplitting Interval Subdivision Rules for Global Optimization (in Hungarian). Abstracts of the XXIII. Hungarian Operational Research Conference, pp. 18., Pécs, 1997.
 1. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Ph. D. Dissertation, Szeged, 1999.
 2. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Thesis. Szeged, 1999.
5. T. Csendes, **M.Cs. Markót**, and Csallner, A.E.: Multisection in Interval Methods for Global Optimization. Abstracts of the ismp97, pp. 69., Lausanne, 1997.
 1. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Ph. D. Dissertation, Szeged, 1999.
 2. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Thesis. Szeged, 1999.
6. Csallner, A.E., T. Csendes, **M.Cs. Markót**: Multisection in Interval Methods for Global Optimization I. Theoretical Results, J. Global Optimization 16(2000), 371–392.
 1. Wiethoff, A.: Verifizierte globale Optimierung auf Parallelrechnern. PhD. Dissertation, Karlsruhe University, 1997.*
 2. L. G. Casado, I. García, and T. Csendes: A Heuristic Rejection Criterion in Interval Global Optimization. Volume of extended Abstracts of the IMACS/GAMM SCAN98 Conference, Budapest, pp. 18–20, 1998.
 3. T. Csendes, L. G. Casado, and I. García: Adaptative Multisection in Interval Global Optimization. Volume of extended Abstracts of the IMACS/GAMM SCAN98 Conference, Budapest, pp. 27–29, 1998.
 4. T. Csendes: Optimization methods for process network synthesis — a case study, in: Christer Carlsson and Inger Eriksson (eds.): Global & multiple criteria optimization and information systems quality. Abo Academy, Turku, 1998, pp. 113–132.
 5. Csallner A.E.: A survey on some possible variants of interval branch-and-bound methods. Abstracts of the XIV. Int. Conf. on Math. Programming, Mátraháza, Hungary, 1999, pp. 9–10.
 6. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Ph. D. Dissertation, Szeged, 1999.
 7. A.E. Csallner : Interval subdivision methods in global optimization (in Hungarian). Thesis. Szeged, 1999.

8. Casado, L.G.: Optimización global basada en aritmética de intervalos y ramificación y acotación: paralelización (in Spanish). PhD dissertation, University of Málaga, x+192 pp., 1999.*
9. Csallner A.E.: Interval Branch-and-Bound Methods — A Systematic Approach. Abstracts of GO.99, Firenze, 24–25, 1999.
10. Revol, N., Y. Denneulin, J.-F. Méhaut, B. Planquelle: Parallelization of continuous verified global optimization. ANO Research Report 404/1999, Univ. Lille1.*
11. Nathalie Revol, Yves Denneulin, Jean-Francois Méhaut, and Benoit Planquelle. Parallelization of continuous verified global optimization. In Proc. of the 19th Conference on System Modelling and Optimization, pages 128–131, Cambridge, England, July 1999. IFIP TC7.*
12. Nathalie Revol: Parallélisation d’application irrégulières: Exemples en optimisation combinatoire et en optimisation globale par intervalles. ANO Research Report 417/1999, Univ. Lille1.*
13. Sergeyev, Y.: Efficient strategy for adaptive partition of N-dimensional intervals in the framework of diagonal algorithms. *J. Optimization Theory and Application (JOTA)* 107(2000), 145–168.*
14. Leo Liberti: Global Optimization of MINLPs. PhD Transfer Report, Centre for Process Systems Engineering, Imperial College of Science, Technology and Medicine, 134 p., 2001.*
15. Ibraev, Suiunbek: A new parallel method for verified global optimization. PhD dissertation, University of Wuppertal, 148 p., 2001.*
16. Revol, N., Denneulin, Y., Mehaut, J-F., Planquelle, B.: A methodology of parallelization for continuous verified global optimization. *Lecture Notes in Computer Science* 2328(2002), 803–810.*
17. Xu, P. L.: Numerical solution for bounding feasible point sets. *Journal of Computational and Applied Mathematics* 156(2003), 201–219.*
18. J. Žilinskas, I. D. L. Bogle: Evaluation Ranges of Functions using Balanced Random Interval Arithmetic. *Informatica* 14(2003), 403–416. (Published by the Institute of Mathematics and Informatics, Lithuanian Academy of Sciences, Lithuania.)*
19. Shen Pei Ping and Zhang Ke Cun: An Interval Slope Method for Global Minimizers of Several Peaks Functions of Several Variables. *Mathematica Numerica Sinica*, 25(3), 2003, pp. 333-346.*
20. B.M. Demirhan, and L. Özdamar: A fuzzy adaptive partition algorithm (FAPA) for global optimization. In: J.-L. Verdegay (ed.): *Fuzzy Sets Based Heuristics for Optimization*, Springer, 2003, 37-48.*
21. Nagy Ádám: Globális optimalizálási algoritmusok PNS feladatok megoldására. Doktori értekezés, Veszprémi Egyetem, 2004.*
22. Tamás Vinkó, Jean-Louis Lagouanelle, and Tibor Csendes: A New Inclusion Function for Optimization: Kite – The One Dimensional Case. *Journal of Global Optimization* 30(2004) 435–456.
23. J. Balogh and B. Tóth: Global optimization on Stiefel manifolds: a computational approach, *CEJOR* 13(2005), 213–232.*
24. Shen Pei Ping and Wang Yan Jun: A new pruning test for finding all global minimizers of nonsmooth functions. *Applied Mathematics and Computation* 168(2005), 739–755.*
25. F. Messine: L’Optimisation Globale par Intervalles: de l’Etude Théorique aux Applications. Habilitation dissertation, UMR-CNRS Toulouse, 2005.*
26. Shen Pei Ping and Zhang Ke Cun: An Interval Expansion Method of a Kind of Nonsmooth Global Optimization. *Acta Mathematicae Applicatae Sinica (Chinese Series)* 28(1), 2005, 11–19.*
27. Vinkó Tamás: Globális optimalizálási módszerek továbbfejlesztése, tesztelése és alkalmazása atomklaszter feladatokra. PhD értekezés, SZTE Szeged, 2006.*
28. C.S. Pedamallu: New Solution Methodologies for Global Optimization. PhD Thesis, Nanyang Technological University, Singapore, 2006.*
29. C.S. Pedamallu: New Interval Partitioning Algorithms for Global Optimization Problems, PhD Dissertation, Nanyang Technological University, Singapore, 2006.*
30. Sun, M. and X. Yang: What does a deterministic algorithm need to do to locate a global optimizer? *Proceedings of the Annual Southeastern Symposium on System Theory* 2006, 497–501.*
31. S.K. Mahato and A.K. Bhunia: Interval-Arithmetic-Oriented Interval Computing Technique for Global Optimization. *Applied Mathematics Research eXpress (AMRX)*, Volume 2006, pp. 1–19.*
32. Ocloo, S., Edmonson, W.: An interval-based algorithm for adaptive IIR filters. *Asilomar Conference on Signals, Systems and Computers*, art. no. 4176556, 258–262, 2006.*
33. C.S. Pedamallu, L. Özdamar, and T. Csendes: Symbolic interval inference approach for subdivision direction selection in interval partitioning algorithms. *J. Global Optimization* 37(2007), 177–194.
34. Yang, X. and M. Sun: Theoretical convergence analysis of a general division-deletion algorithm for solving global search problems. *J. Global Optimization* 37(2007) 27–45.*
35. Csallner A.E., Balogh J.: Optimization Without Derivatives: A Simple Direct Search Method, *Pollack Periodica* 2(2007) Supplement 145–154.

36. Balogh János: Globális optimalizálási alkalmazások és szemi-online pakolás. PhD értekezés, Szeged, 2007.*
 37. Ocloo, S.K.: Global Optimization Methods for Adaptive IIR Filters. PhD Dissertation, North Carolina State University, USA, 2007.*
 38. Sergeyev, Y.D., and D.E. Kvasov: Diagonal methods of global optimization (in Russian). Moscow, 2008.*
 39. G.L. Soares: Algoritmos Determinístico e Evolucionário Intervalares para Otimização Robusta Multi-Objetivo. PhD Dissertation, Universidade Federal de Minas Gerais, Brasil, 2008.*
 40. T. Csendes: Interval Analysis: Algorithmic improvements using a heuristic parameter, RejectIndex for interval optimization. Encyclopedia of Optimization, Springer-Verlag, Berlin, Part I., pp. 30–33, 2008.
 41. S. Karmakar, S.K. Mahato, and A.K. Bhunia: Interval oriented multi-section techniques for global optimization. J. Computational and Applied Mathematics 224(2009), 476–491.*
 42. Baharev Ali: Intervallum Módszerek Alkalmazása Vegyész-mérnöki Számításokban. PhD értekezés, BME, Budapest, 2009.*
 43. Aleman, D.M., Romeijn, H.E., and Dempsey, J.F.: A Response Surface Approach to Beam Orientation Optimization in Intensity-Modulated Radiation Therapy Treatment Planning. INFORMS J. on Computing 21(2009) 62-76.*
 44. A. Schöbel and D. Scholz: The big cube small cube solution method for multidimensional facility location problems. Computers & Operations Research 37(2010) 115-122.*
 45. Pál, L.: Global optimization algorithms for bound constrained problems. PhD dissertation, University of Szeged, 2010.*
 46. J. Ninin: Optimisation Globale basée sur l'Analyse d'Intervalles: Relaxation Affine et Limitation de la Mémoire. PhD Dissertation, Université de Toulouse, France, 2010.*
 47. J. Ninin and F. Messine: A metaheuristic methodology based on the limitation of the memory of interval branch and bound algorithms. J. Global Optimization, DOI: 10.1007/s10898-010-9531-y, 2010.*
7. **M.Cs. Markót**, T. Csendes, Csallner, A.E.: Multisection in Interval Methods for Global Optimization II. Numerical Tests. J. Global Optimization 16(2000), 219–228.
1. L.G. Casado, I. García and T. Csendes: A New Multisection Technique in Interval Methods for Global Optimization. Computing 65(2000), 263–269.
 2. T. Csendes: New subinterval selection criteria for interval global optimization. J. Global Optimization 19(2001), 307–327.
 3. Bartłomiej Kubica, Ewa Niewiadomska-Szynkiewicz: Unconstrained and Constrained Global Optimization Using Interval Analysis. In: Evolutionary Computation and Global Optimization (ed. J.Arabas), Oficyna Wydawnicza PW, Prace Naukowe Elektronika book 139, pp. 185–199, 2001.*
 4. Leo Liberti: Global Optimization of MINLPs. PhD Transfer Report, Centre for Process Systems Engineering, Imperial College of Science, Technology and Medicine, 134 p., 2001.*
 5. T. Csendes: Numerical experiences with a new generalized subinterval selection criterion for interval global optimization. Reliable Computing 9(2003) 109–125.
 6. J. Žilinskas, I. D. L. Bogle: Evaluation Ranges of Functions using Balanced Random Interval Arithmetic. Informatica 14(2003), 403–416. (Published by the Institute of Mathematics and Informatics, Lithuanian Academy of Sciences, Lithuania.)*
 7. Shen Pei Ping and Zhang Ke Cun: An Interval Slope Method for Global Minimizers of Several Peaks Functions of Several Variables. Mathematica Numerica Sinica, 25(3), 2003, pp. 333-346.*
 8. Tibor Csendes: Generalized subinterval selection criteria for interval global optimization. Numerical Algorithms 37(2004) 93-100.
 9. J. Balogh and B. Tóth: Global optimization on Stiefel manifolds: a computational approach, CEJOR 13(2005), 213–232.*
 10. B. Tóth and T. Csendes: Empirical investigation of the convergence speed of inclusion functions. Reliable Computing 11(2005), 253–273.
 11. Shen Pei Ping and Wang Yan Jun: A new pruning test for finding all global minimizers of nonsmooth functions. Applied Mathematics and Computation 168(2005), 739–755.*
 12. F. Messine: L'Optimisation Globale par Intervalles: de l'Etude Théorique aux Applications. Habilitation dissertation, UMR-CNRS Toulouse, 2005.*
 13. Vinkó Tamás: Globális optimalizálási módszerek továbbfejlesztése, tesztelése és alkalmazása atomklaszter feladatokra. PhD értekezés, SZTE Szeged, 2006.*
 14. C.S. Pedamallu: New Solution Methodologies for Global Optimization. PhD Thesis, Nanyang Technological University, Singapore, 2006.*
 15. C.S. Pedamallu: New Interval Partitioning Algorithms for Global Optimization Problems, PhD Dissertation, Nanyang Technological University, Singapore, 2006.*

16. S.K. Mahato and A.K. Bhunia: Interval-Arithmetic-Oriented Interval Computing Technique for Global Optimization. Applied Mathematics Research eXpress (AMRX), Volume 2006, pp. 1–19.*
 17. C.S. Pedamallu, L. Özdamar, and T. Csendes: Symbolic interval inference approach for subdivision direction selection in interval partitioning algorithms. J. Global Optimization 37(2007), 177–194.
 18. Hu, S.: Semidefinite Relaxation Based Branch-and-bound Method for Nonconvex Quadratic Programming. PhD Dissertation, MIT, 2006.*
 19. Ocloo, S., Edmonson, W.: An interval-based algorithm for adaptive IIR filters. Asilomar Conference on Signals, Systems and Computers, art. no. 4176556, 258–262, 2006.*
 20. Edmonson, W., Ocloo, S., Williams, C., Alexander, W.: The use of interval methods in signal processing and control for systems biology. Proc. IEEE Symp. FOCI2007, 136–142, 2007.*
 21. A.B. Kocsis and A.E. Csallner: Design of Optimal Reinforced Concrete Bases with Automatic Result Verification. In: Proc. of the Eleventh International Conference on Civil, Structural and Environmental Engineering Computing, B.H.V. Topping, (Editor), Civil-Comp Press, Stirlingshire, 36, 2007.
 22. Csallner A.E., Balogh J.: Optimization Without Derivatives: A Simple Direct Search Method, Pollack Periodica 2(2007) Supplement 145-154.
 23. Balogh János: Globális optimalizálási alkalmazások és szemi-online pakolás. PhD értekezés, Szeged, 2007.*
 24. Ocloo, S.K.: Global Optimization Methods for Adaptive IIR Filters. PhD Dissertation, North Carolina State University, USA, 2007.*
 25. T. Csendes: Interval Analysis: Algorithmic improvements using a heuristic parameter, RejectIndex for interval optimization. Encyclopedia of Optimization, Springer-Verlag, Berlin, Part I., pp. 30–33, 2008.
 26. S. Karmakar, S.K. Mahato, and A.K. Bhunia: Interval oriented multi-section techniques for global optimization. J. Computational and Applied Mathematics 224 (2009) 476–491.*
 27. Baharev Ali: Intervallum Módszerek Alkalmazása Vegyész-mérnöki Számításokban. PhD értekezés, BME, Budapest, 2009.*
 28. A. Schöbel and D. Scholz: The big cube small cube solution method for multidimensional facility location problems. Computers & Operations Research 37(2010) 115-122.*
8. **M. Cs. Markót**: An Interval Method to Validate Optimal Solutions of the “Packing Circles in a Unit Square” Problems, Central European Journal of Operational Research 8(2000), 63–78.
1. H. Batnini, M. Rueher: Décomposition sémantique pour la résolution de systèmes de contraintes de distance. Journal électronique d’intelligence artificielle 2-21(2003). <http://jedai.afia-france.org/detail.php?PaperID=21> *
 2. M. Heusch: *distn*: An Euclidean Distance Global Constraint. In: Principles and Practice of Constraint Programming – CP 2003 (ed. F. Rossi). Lecture Notes in Computer Science 2833(2003), p. 975.*
 3. H. Batnini, M. Rueher: QuadDist: Filtrage global pour les contraintes de distance euclidienne. Actes JNPC’04 (10eme journées Nationales pour la résolution de problemes NP-Complets), Angers, France, 2004.*
 4. M. Rueher: Solving Continuous Constraint Systems. Proc. 3IA’2005 (8th Int. Conf. on Computer Graphics and Artificial Intelligence) Limoges, France, pp. 35–55, 2005.*
 5. H. Batnini: Contraintes Globales et Heuristiques de Recherche pour les CSPs Continus. Doctoral Thesis, University of Nice – Sophia Antipolis, 2005.*
 6. M. Heusch: Modélisation et résolution d’une application d’aide au déploiement d’antennes radio en programmation par contraintes sur le discret et le continu. PhD Dissertation, Université de Nantes, France, 2006. <http://tel.archives-ouvertes.fr/docs/00/48/15/98/PDF/These-Heusch-v2.1.pdf>*
9. **M. Cs. Markót**, Garantált megbízhatóságú globális optimalizálási módszerek továbbfejlesztése korlátozott feladatokra és alkalmazásuk körpakolási feladatok megoldása esetén (In Hungarian. English title: Reliable Global Optimization Methods for Constrained Problems and Their Application for Solving Circle Packing Problems). PhD dissertation. Szeged, 2003.
1. C.S. Pedamallu, L. Özdamar, and T. Csendes: An interval partitioning approach for continuous constrained optimization. In: A. Törn and J. Žilinskas (eds.): Models and Algorithms for Global Optimization. Springer Optimization and Its Applications 4 (2007), 73-96.*
 2. P.G. Szabó and E. Specht: Packing up to 200 Equal Circles in a Square. In: A. Törn and J. Žilinskas (eds.): Models and Algorithms for Global Optimization. Springer Optimization and Its Applications 4 (2007), 141–156.*
 3. C.S. Pedamallu, L. Özdamar, T. Csendes, and T. Vinkó: Efficient Interval Partitioning for Constrained Global Optimization. J. Global Optimization 42(2008) 369–384.*
 4. C.S. Pedamallu and L. Özdamar: Comparison of Simulated Annealing, Interval Partitioning and Hybrid Algorithms in Constrained Global Optimization. In: P. Siarry and Z. Michalewicz: Advances in Metaheuristics for Hard Optimization, Springer, Berlin, 2008, 1–22.*

10. **M. Cs. Markót**: Optimal Packing of 28 Equal Circles in a Unit Square – the First Reliable Solution. *Numerical Algorithms* 37(2004), pp. 253–261.
 1. Böröczky, Károly Jr.: *Finite Packing and Covering*. Cambridge University Press, 2004.*
 2. Péter Gábor Szabó, Optimal substructures in optimal and approximate circle packings, *Beiträge zur Algebra und Geometrie* 46(2005), 103–118.*
 3. P. Brass, W.O.J. Moser, and J. Pach: *Research Problems in Discrete Geometry*, Springer, 2005.*
 4. F. Messine: *L’Optimisation Globale par Intervalles: de l’Etude Théorique aux Applications*. Habilitation dissertation, UMR-CNRS Toulouse, 2005.*
 5. T. Csendes: *Global Optimization and Verified Numerical Techniques for the Solution of Mathematical Problems*. Abstracts of the IMACS/GAMM SCAN-2006 Conference, pp. 23–24, Duisburg, 2006.*
 6. P.G. Szabó and E. Specht: Packing up to 200 Equal Circles in a Square. In: A. Törn and J. Žilinskas (eds.): *Models and Algorithms for Global Optimization*. Springer Optimization and Its Applications 4(2007), 141–156.*
 7. J. Picka: *Statistical Inference for Disordered Sphere Packings*. ArXiv e-print, 2007.
<http://arxiv.org/abs/0711.3035>*
 8. T. Csendes: *Interval Analysis and Verification of Mathematical Models*. In: P. Baveye, J. Mysiak, and M. Laba(Eds.): *Uncertainties in Environmental Modelling and Consequences for Policy Making*, Springer, Berlin, 2009, 79–100.*
 9. A. Joós: On the packing of fourteen congruent Spheres in a cube. *Geometriae Dedicata* 140(2009), 49–80.*
11. **M. Cs. Markót** and T. Csendes: A New Verified Optimization Technique for the “Packing Circles in a Unit Square” Problems. *SIAM J. Optimization* (16), pp. 193–219, 2005.
 1. H. Batnini, M. Rueher: Décomposition sémantique pour la résolution de systèmes de contraintes de distance. *Journal électronique d’intelligence artificielle* 2-21(2003). <http://jedai.afia-france.org/detail.php?PaperID=21>*
 2. H. Batnini, M. Rueher: QuadDist: Filtrage global pour les contraintes de distance euclidienne. *Actes JNPC’04 (10eme journées Nationales pour la résolution de problemes NP-Complets)*, Angers, France, 2004.*
 3. J. Balogh: Global optimization on Stiefel manifolds – some particular problem instances. *Proceedings of the 6th International Conference on Applied Informatics*, 259–268, Eger, 2004.*
 4. Böröczky, K. Jr.: *Finite Packing and Covering*. Cambridge University Press, 2004.*
 5. Balogh, J., Csendes, T., Rapcsák, T.: Globális optimalizálás Stiefel-sokaságokon – egy érdekes diszkretizálási eredmény. *Alkalmazott Matematikai Lapok*, 22(2005), 163–176.
 6. Szabó Péter Gábor: Egybevágó körök pakolásai négyzetben – korlátok, ismétlődő minták és minimálpolinomok. PhD értekezés, SZTE Szeged, 2005.*
 7. Péter Gábor Szabó, Optimal substructures in optimal and approximate circle packings, *Beiträge zur Algebra und Geometrie* 46(2005), 103–118.*
 8. B. Addis, M. Locatelli, F. Schoen: Disk Packing in a Square: A New Global Optimization Approach. *Optimization Online* 1229, 2005. http://www.optimization-online.org/DB_FILE/2005/10/1229.pdf*
 9. H. Batnini: *Contraintes Globales et Heuristiques de Recherche pour les CSPs Continus*. Doctoral Thesis, University of Nice – Sophia Antipolis, 2005.*
 10. T. Csendes: *Global Optimization and Verified Numerical Techniques for the Solution of Mathematical Problems*. Abstracts of the IMACS/GAMM SCAN-2006 Conference, pp. 23–24, Duisburg, 2006.
 11. B. Husslage, G. Rennen, E. R. van Dam, D. den Hertog: Space-filling Latin hypercube designs for computer experiments. *Discussion Paper* 18, Tilburg University, Center for Economic Research, 2006.*
 12. T. Csendes, B. M. Garay, and B. Bánhelyi: A verified optimization technique to locate chaotic regions of Hénon systems. *J. Global Optimization* 35(2006) 145–160.
 13. M. Heusch: *Modélisation et résolution d’une application d’aide au déploiement d’antennes radio en programmation par contraintes sur le discret et le continu*. PhD Dissertation, Université de Nantes, France, 2006. <http://tel.archives-ouvertes.fr/docs/00/48/15/98/PDF/These-Heusch-v2.1.pdf>*
 14. P.G. Szabó and E. Specht: Packing up to 200 Equal Circles in a Square. In: A. Törn and J. Žilinskas (eds.): *Models and Algorithms for Global Optimization*. Springer Optimization and Its Applications 4 (2007), 141–156.*
 15. Bánhelyi Balázs: *Dinamikus rendszerek kaotikusságának és stabilitásának vizsgálata megbízható számítógépes módszerekkel*. PhD disszertáció, Szeged, 2007.*
 16. Van Dam, E.R., Husslage, B., Den Hertog, D., Melissen, H.: Maximin Latin hypercube designs in two dimensions. *Operations Research* 55(2007) 158–169.*
 17. A.E. Csallner and A.B. Kocsis: Automatic Verified Shear Force Design of Reinforced Concrete Beams. In: *Proc. of the Eleventh International Conference on Civil, Structural and Environmental Engineering Computing*, B.H.V. Topping, (Editor), Civil-Comp Press, Stirlingshire, 38, 2007.*

18. A.B. Kocsis and A.E. Csallner: Design of Optimal Reinforced Concrete Bases with Automatic Result Verification. In: Proc. of the Eleventh International Conference on Civil, Structural and Environmental Engineering Computing, B.H.V. Topping, (Editor), Civil-Comp Press, Stirlingshire, 36, 2007.*
 19. Balogh János: Globális optimalizálási alkalmazások és szemi-online pakolás. PhD értekezés, Szeged, 2007.*
 20. K. Anstreicher: Semidefinite Programming versus the ReformulationLinearization Technique for Nonconvex Quadratically Constrained Quadratic Programming. ESI Preprint 1916 (2007), Vienna.*
 21. B. Bánhelyi, T. Csendes, and B. M. Garay: Optimization and the Miranda approach in detecting horseshoe-type chaos by computer. Int. J. Bifurcation and Chaos 17(2007) 735–747.
 22. R.A. Ramadan: On the deployment of mobile heterogeneous sensors in critical infrastructure. PhD Dissertation, Southern Methodist University, USA, 2007.
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.65.9655&rep=rep1&type=pdf>*
 23. Addis, B., Locatelli, M., Schoen, F.: Efficiently packing unequal disks in a circle. Operations Research Letters 36 (2008), 37–42.*
 24. Castillo, I., Kampas, F.J., Pintér, J.D.: Solving circle packing problems by global optimization: Numerical results and industrial applications. European Journal of Operational Research 191(2008) 786–802.*
 25. Addis B, Locatelli M, Schoen F: Disk Packing in a Square: A New Global Optimization Approach. INFORMS J. Computing 20(2008) 516–524.*
 26. Jamali, A.: Heuristic approaches for maximin distance and packing problems. PhD dissertation, University of Torino, 2008.*
 27. T. Csendes, L. Pál, J.O.H. Sendín, and J. R. Banga: The GLOBAL Optimization Method Revisited. Optimization Letters 2(2008) 445–454.
 28. Anstreicher, K.M.: Semidefinite programming versus the reformulation-linearization technique for nonconvex quadratically constrained quadratic programming. J. Global Optimization 43(2009) 471–484.*
 29. J.D. Pintér: Software Development for Global Optimization. In: Lectures on Global Optimization, Fields Institute Communications, Eds.: P.M. Pardalos and T.F. Coleman, AMS Bookstore, 2009, 205–214.*
 30. T. Csendes: Interval Analysis and Verification of Mathematical Models. In: P. Baveye, J. Mysiak, and M. Laba(Eds.): Uncertainties in Environmental Modelling and Consequences for Policy Making, Springer, Berlin, 2009, 79–100.
 31. L. Pál and T. Csendes: INTLAB implementation of an interval global optimization algorithm. Optimization Methods and Software 24(2009) 749–759.
 32. M. Hifi and R. M’Hallah: A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. Advances in Operations Research 2009(2009), Article ID 150624, 22 p.*
 33. G. Rennen: Efficient approximation of black-box functions and Pareto sets. PhD Dissertation, Tilburg University, The Netherlands, 2009. <http://arno.uvt.nl/show.cgi?fid=96993>*
 34. Grosso, A., A. Jamali, M. Locatelli, F. Schoen: Solving the problem of packing equal and unequal circles in a circular container. J. Global Optimization 47(2010) 63–81.*
 35. F. Domes: Rigorous Techniques for Continuous Constraint Satisfaction Problems. PhD Dissertation, University of Vienna, Austria, 2010.*
 36. Huang, W., Ye, T.: Greedy vacancy search algorithm for packing equal circles in a square. Operations Research Letters 38(2010) 378–382.*
 37. Pál, L.: Global optimization algorithms for bound constrained problems. PhD dissertation, University of Szeged, 2010.*
 38. K.M. Anstreicher: On convex relaxations for quadratically constrained quadratic programming. Optimization Online 2699, 2010. http://www.optimization-online.org/DB_FILE/2010/08/2699.pdf*
 39. A. Cassioli and M. Locatelli: A heuristic approach for packing identical rectangles in convex regions. Computers and Operations Research 38(2011), 1342–1350.*
12. P.G. Szabó, **M.Cs. Markót**, and T. Csendes: Global Optimization in Geometry – Circle Packing into the Square. In: Essays and Surveys in Global Optimization (ed.: C. Audet, P. Hansen, and G. Savard) pp. 233–266, Kluwer, Dordrecht, 2005.
1. P.G. Szabó: Packing Equal Circles in a Square — bounds, minimal polynomials and classification. Abstracts of the CSCS 2004 - Conference of PhD Students in Computer Science, pp. 110–111, Szeged, Hungary, 2004.
 2. P.G. Szabó: Packing Equal Circles in a Square — Bounds, Repeated Patterns and Minimal Polynomials. Abstracts of the IMACS/GAMM SCAN-2004 Conference, pp. 110, Fukuoka, 2004.
 3. P.G. Szabó: On proving existence of some circle packings in a square using computer algebra systems. Proc. 6th International Conference on Applied Mathematics, Vol. I. pp. 487, Eger, 2004.

4. B. Addis, M. Locatelli, F. Schoen: Packing Circles in a Square: new putative optima obtained via global optimization. DSI Report 01-2005, University of Firenze, 2005.
http://www.optimization-online.org/DB_FILE/2005/03/1088.pdf*
 5. Szabó Péter Gábor: Egybevágó körök pakolásai négyzetben – korlátok, ismétlődő minták és minimálpolinomok. PhD értekezés, SZTE Szeged, 2005.
 6. P.G. Szabó: Packing Equal Circles in a Square – Bounds, Repeated Patterns and Minimal Polynomials. Theses of PhD dissertation, Szeged, 2005.
 7. F. Messine: L’Optimisation Globale par Intervalles: de l’Etude Théorique aux Applications. Habilitation dissertation, UMR-CNRS Toulouse, 2005.*
 8. C. Audet, P. Hansen, and F. Messine: Quatre Petits Octogones. Les Cahiers du GERAD, G-2005-93, 2005.*
 9. T. Csendes: Global Optimization and Verified Numerical Techniques for the Solution of Mathematical Problems. Abstracts of the IMACS/GAMM SCAN-2006 Conference, pp. 23–24, Duisburg, 2006.
 10. B. Addis, M. Locatelli, and F. Schoen: Efficiently packing unequal disks in a circle: a computational approach which exploits the continuous and combinatorial structure of the problem. Optimization Online 1343, 2006.
http://www.optimization-online.org/DB_FILE/2006/03/1343.pdf*
 11. P.G. Szabó and E. Specht: Packing up to 200 Equal Circles in a Square. In: A. Törn and J. Žilinskas (eds.): Models and Algorithms for Global Optimization. Springer Optimization and Its Applications 4 (2007), 141–156.
 12. R.A. Ramadan: On the deployment of mobile heterogeneous sensors in critical infrastructure. PhD Dissertation, Southern Methodist University, USA, 2007.
<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.65.9655&rep=rep1&type=pdf>*
 13. B. Addis, M. Locatelli, and F. Schoen: Efficiently packing unequal disks in a circle. Operations Research Letters 36 (2008), 37–42.*
 14. C. Audet, P. Hansen, and F. Messine: Extremal problems for convex polygons. J. Global Optimization 38(2007) 163–179.*
 15. K. Anstreicher: Semidefinite Programming versus the Reformulation-Linearization Technique for Nonconvex Quadratically Constrained Quadratic Programming. ESI Preprint 1916 (2007), Vienna.*
 16. Castillo, I., Kampas, F.J., Pintér, J.D.: Solving circle packing problems by global optimization: Numerical results and industrial applications. European Journal of Operational Research 191(2008) 786–802.*
 17. Jamali, A.: Heuristic approaches for maximin distance and packing problems. PhD dissertation, University of Torino, 2008.*
 18. Anstreicher, K.M.: Semidefinite programming versus the reformulation-linearization technique for nonconvex quadratically constrained quadratic programming. J. Global Optimization 43(2009) 471–484.*
 19. Lubachevsky, B.D., Graham, R.L.: Minimum perimeter rectangles that enclose congruent non-overlapping circles. Discrete Mathematics 309(2009) 1947–1962.*
 20. A. Müller, J.J. Schneider, and E. Schömer: Packing a multidisperse system of hard disks in a circular environment. Physical Review E 79(2009) 021102.*
 21. Szabó, P.G.: A Nonlinear Programming Case Study to a Sensor Location Problem. Proc. Int. Conf. on Computer Systems and Technologies, Ruse, 2009, IIIB, 11-1-6.
 22. M. Hifi and R. M’Hallah: A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. Advances in Operations Research 2009(2009), Article ID 150624, 22 p.*
 23. J. Steinrücken: Automatisierte Erzeugung personalisierter ad-hoc-Karten in einem Service-basierten GIS (Mapping on Demand). Doctoral Dissertation, Rheinische Friedrich-Wilhelms-Universität Bonn, Germany, 2009.
<http://hss.ulb.uni-bonn.de/90/2009/1946/1946.pdf>*
 24. Grosso, A., A. Jamali, M. Locatelli, F. Schoen F: Solving the problem of packing equal and unequal circles in a circular container. J. Global Optimization 47(2010) 63-81.*
 25. K.M. Anstreicher: On convex relaxations for quadratically constrained quadratic programming. Optimization Online 2699, 2010. http://www.optimization-online.org/DB_FILE/2010/08/2699.pdf*
 26. A. Cassioli and M. Locatelli: A heuristic approach for packing identical rectangles in convex regions. Computers and Operations Research 38(2011), 1342–1350.*
13. D. Izzo, **M. Cs. Markót**, and I. Nann: A distributed global optimiser applied to the design of a constellation performing radio-occultation measurements. Advances in the Astronautical Sciences (120) – Spaceflight Mechanics 2005, pp. 739–748, 2005.
1. A. Rathke, D. Izzo: Pioneer Anomaly: What can we learn from future planetary exploration missions? Proc. 56th International Astronautical Congress, Fukuoka, Japan, Paper IAC-05-A3.4.02, 2005.
 2. A. Rathke, D. Izzo: Options for a Nondedicated Mission to Test the Pioneer Anomaly. Journal of Spacecraft and Rockets 34(4), 2006.

14. E. R. Frits, **M. Cs. Markót**, T. Csendes, Z. Lelkes, Z. Fonyó, E. Rév, Use of Interval Optimization for finding Limiting Flows of Batch Extractive Distillation. Proc. European Symposium On Computer Aided Process Engineering - 15, Barcelona, Spain, pp. 661-666, Eds: L. Puigjaner, A. Espuna. Elsevier, 2005.
 1. Varga, V.; Frits, E.R.; Gerbaud, V.; Fonyo, Z.; Joulia, X.; Lelkes, Z.; Rev, E.: "Separation of Azeotropes in Batch Extractive Stripper with Intermediate Entrainer", 16th European Symp. on Computer Aided Process Engineering and 9th International Symposium of Process Systems Engineering, Ed.: Marquardt, W. Pantelides, C., Ser. CACE 21A-B, Elsevier, 2006, 793-797.
 2. C. Stéger: Distillation discontinue extractive et reactive dans une colonne avec un bac intermédiaire. Doctoral Dissertation, Institut National Polytechnique de Toulouse, France, 2006.*
15. **M. Cs. Markót**, J. Fernández, L. G. Casado, and T. Csendes: New interval methods for constrained global optimization. *Mathematical Programming* (106), pp. 287–318, 2006.
 1. T. Csendes, L. Casado, and I. García: The Application Fields of the RejectIndex Parameter in Interval Methods for Global Optimization. Abstracts of Validated Computing 2002 - A SIAM Workshop, Toronto, Canada, 2002.
 2. T. Csendes: Applications of Interval Methods for Global Optimization. Abstracts of the First Scandinavian Workshop on Interval Methods and Their Applications, Technical University of Denmark, Lyngby, Denmark, 2003.
 3. J. Balogh, T. Csendes, and T. Rapcsák: Some global optimization problems on Stiefel manifolds, *Journal of Global Optimization* 30(2004), 91-101.
 4. J. Balogh: Global optimization on Stiefel manifolds – some particular problem instances. Proceedings of the 6th International Conference on Applied Informatics, 259–268, Eger, 2004.*
 5. Balogh, J., Csendes, T., Rapcsák, T.: Globális optimalizálás Stiefel-sokaságokon – egy érdekes diszkretizálási eredmény. *Alkalmazott Matematikai Lapok*, 22(2005), 163–176.
 6. J. Balogh and B. Tóth: Global optimization on Stiefel manifolds: a computational approach, *CEJOR* 13(2005), 213–232.*
 7. C.S. Pedamallu: New Solution Methodologies for Global Optimization. PhD Thesis, Nanyang Technological University, Singapore, 2006.*
 8. C.S. Pedamallu: New Interval Partitioning Algorithms for Global Optimization Problems, PhD Dissertation, Nanyang Technological University, Singapore, 2006.*
 9. C.S. Pedamallu and L. Özdamar: A Collaborative Solution Methodology for Inverse Position Problem. In: J. Pintér (ed.): *Global Optimization – Scientific and Engineering Case Studies*. Springer, Berlin, 2006, 331–360.*
 10. J. Fernández, B. Tóth, F. Plastria, and B. Pelegrin: Reconciling Franchisor and Franchisee: A Planar Biobjective Competitive Location and Design Model. In: A. Seeger (ed.): *Recent Advances in Optimization*, Springer, 2006, 375–398.
 11. J. Fernández, B. Pelegrin, F. Plastria, and B. Tóth: Solving a Huff-like competitive location and design model for profit maximization in the plane. *EJOR* 179(2007), 1274–1287.
 12. C.S. Pedamallu, L. Özdamar, and T. Csendes: An interval partitioning approach for continuous constrained optimization. In: A. Törn and J. Žilinskas (eds.): *Models and Algorithms for Global Optimization*. Springer Optimization and Its Applications (4), 2007, 73–96.
 13. Fernandez, J., B. Pelegrin, F. Plastria, and B. Tóth: Planar Location and Design of a New Facility with Inner and Outer Competition: An Interval Lexicographical-like Solution Procedure. *Networks and Spatial Economics* 7(2007) 19–44.
 14. Tóth, B.: Interval methods for competitive location problems. PhD dissertation, University of Almeria, 2007.
 15. Pelegrin B, Fernandez J, Tóth B: The 1-center problem in the plane with independent random weights *Computers & Operations Research* 35(2008) 737–749.
 16. Balogh János: Globális optimalizálási alkalmazások és szemi-online pakolás. PhD értekezés, Szeged, 2007.*
 17. L. Pál: A global optimization algorithm for INTLAB. Proc. of the CSCS conference, Szeged, p. 46, 2008.*
 18. Thompson M, Stander H, Sessions J: GuylinePC: An interactive guyline tension analysis program for guyed logging towers. *Western J. Applied Forestry* 23(2008) 133–141.*
 19. T. Csendes: Interval Analysis: Algorithmic improvements using a heuristic parameter, RejectIndex for interval optimization. *Encyclopedia of Optimization*, Springer-Verlag, Berlin, Part I., pp. 30–33, 2008.
 20. C.S. Pedamallu and L. Özdamar: Comparison of Simulated Annealing, Interval Partitioning and Hybrid Algorithms in Constrained Global Optimization. In: P. Siarry and Z. Michalewicz: *Advances in Metaheuristics for Hard Optimization*, Springer, Berlin, 2008, 1–22.*
 21. M. Arounassalame: Global Optimization of Polynomials using the Bernstein form and its Applications to Systems and Control Engineering. PhD dissertation, IIT, Bombay, 2008.*

22. C.S. Pedamallu, L. Özdamar, T. Csendes, and T. Vinkó: Efficient Interval Partitioning for Constrained Global Optimization. *J. Global Optimization* 42(2008) 369–384.
 23. L. Pál: A Global Optimization Algorithm for INTLAB. Extended abstracts of the CSCS-2002 Conference, pp. 46, Szeged, 2008.*
 24. B. Tóth, J. Fernandez, B. Pelegrin, and F. Plastria: Sequential versus simultaneous approach in the location and design of two new facilities using planar Huff-like models. *Computers and Operations Research*. 36(2009) 1393–1405.
 25. I.G. Tsoulos: Solving constrained optimization problems using a novel genetic algorithm *Applied Mathematics and Computation* 208(2009) 273–283.*
 26. Baharev Ali: Intervallum Módszerek Alkalmazása Vegyészmérnöki Számításokban. PhD értekezés, BME, Budapest, 2009.*
 27. J. Fernandez, and B. Tóth: Obtaining the efficient set of nonlinear biobjective optimization problems via interval branch-and-bound methods. *Computational Optimization and Applications* 42(2009) 393–419.
 28. L. Pál and T. Csendes: INTLAB implementation of an interval global optimization algorithm. *Optimization Methods and Software* 24(2009) 749–759.
 29. Pál, L.: Global optimization algorithms for bound constrained problems. PhD dissertation, University of Szeged, 2010.*
 30. Žilinskas, A., Žilinskas, J.: On probabilistic bounds inspired by interval arithmetic. *Control and Cybernetics* 39(2010) 507–525.*
 31. M. Hadizadeh and S. Yazdani: New enclosure algorithms for the verified solutions of nonlinear Volterra integral equations. *Applied Mathematical Modelling*, in press, doi:10.1016/j.apm.2010.11.071, 2010.*
 32. Sanchez A.J., Martinez D.: Optimization in Non-Standard Problems. An Application to the Provision of Public Inputs. *Computational Economics* 37(2011) 13–38.*
16. E. Frits, **M.Cs. Markót**, T. Csendes, Z. Lelkes, Zs. Fonyó, and E. Rév: Finding limiting flows of batch extractive distillation with interval arithmetic. *AIChE J.* 52(2006) 3100–3108.
1. C. Stéger: Distillation discontinue extractive et reactive dans une colonne avec un bac intermédiaire. Doctoral Dissertation, Institut National Polytechnique de Toulouse, France, 2006.*
 2. Rodriguez-Donis I, Papp K, Rév E, Lelkes Z, Gerbaud V, Joulia X: Column configurations of continuous heterogeneous extractive distillation. *AIChE J.* 53(2007) 1982–1993.
 3. Van Kaam, R., Rodriguez-Donis, I., Gerbaud, V.: Heterogeneous extractive batch distillation of chloroform-methanol-water: Feasibility and experiments. *Chemical Engineering Science* 63(2008) 78–94.*
 4. Rodriguez-Donis I, Gerbaud V., Joulia X.: Thermodynamic Insights on the Feasibility of Homogeneous Batch Extractive Distillation, 1. Azeotropic Mixtures with a Heavy Entrainer. *Industrial & Engineering Chemistry Research* 48(2009) 3544–3559.*
 5. Rodriguez-Donis I, Gerbaud V., Joulia X.: Thermodynamic Insights on the Feasibility of Homogeneous Batch Extractive Distillation, 2. Low-Relative-Volatility Binary Mixtures with a Heavy Entrainer. *Industrial & Engineering Chemistry Research* 48(2009) 3560–3572.*
 6. Ravagnani, M., Reis, M.H.M., Filho, R.M., Wolf-Maciel, M.R.: Anhydrous ethanol production by extractive distillation: A solvent case study. *Process Safety and Environmental Protection* 88(2010) 67–73.*
 7. D.I. Gerogiorgis: Rapid Interval Arithmetic Screening of Continuous Pharmaceutical Processes. Abstracts of the AIChE 2009 Annual Meeting, Nashville, USA, 2009.*
 8. D.I. Gerogiorgis: Rapid Interval Arithmetic Screening of Continuous Pharmaceutical Processes with Explicit Thermodynamics. Abstracts of the AIChE 2010 Annual Meeting, Salt Lake City, USA, 2010.*
17. **M. Cs. Markót** and T. Csendes: A Reliable Area Reduction Technique for Solving Circle Packing Problems. *Computing* (77), pp. 147–162., 2006.
1. T. Csendes: Global Optimization and Verified Numerical Techniques for the Solution of Mathematical Problems. Abstracts of the IMACS/GAMM SCAN-2006 Conference, pp. 23–24, Duisburg, 2006.
 2. M. Hifi and R. M’Hallah: A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. *Advances in Operations Research* 2009(2009), Article ID 150624, 22 p.*
18. P.G. Szabó, **M.Cs. Markót**, T. Csendes, E. Specht, L.G. Casado, and I. García: New Approaches to Circle Packing in a Square. *Springer Optimization and Its Applications* (6), Springer, 2007.
1. Szabó Péter Gábor: Egybevágó körök pakolásai négyzetben – korlátok, ismétlődő minták és minimálpolinomok. PhD értekezés, SZTE Szeged, 2005.

2. A. Schürmann: On packing spheres into containers - About Kepler's finite sphere packing problem. *Documenta Mathematica* 11 (2006), 393–406.*
3. T. Csendes: Global Optimization and Verified Numerical Techniques for the Solution of Mathematical Problems. Abstracts of the IMACS/GAMM SCAN-2006 Conference, pp. 23–24, Duisburg, 2006.
4. A.Y.D. Siem, D. den Hertog: Kriging models that are robust with respect to simulation errors. *Tilburg University CentER Discussion Paper Series* 2007-68, 2007.*
5. H.J. Weiher: Verhalten von PE-HD Schutzhüllen bei der umlenkung von verbundlosen Spanngliedern. PhD Dissertation, TU München, 2007.*
6. L. Pál and T. Csendes: Improvements on the GLOBAL Optimization Algorithm with Numerical Tests. *Proc. ICAI-2007, Eger, Hungary, Vol. 2.*, pp. 101–109, 2007.
7. H. Weiher, E. Specht, B. Pfeiffer, K. Klamroth, K. Zilch: New approaches for the determination of the cable factor in post-tensioning tendons. *IABSE Reports* 93(2007), 9 pages.
8. Simon Gravel and Veit Elser: Divide and concur: A general approach to constraint satisfaction. *Physical Review E* 78(2008), 036706, 5 pages.*
9. Jamali, A.: Heuristic approaches for maximin distance and packing problems. PhD dissertation, University of Torino, 2008.*
10. Szabó, P.G.: Maximum l^p separation arrangements. *Proceedings of the VOCAL-2008, Veszprém*, p. 98, 2008.
11. Ruttkay, Z.M. (2008) A Sangaku Revived. In: *Bridges Leeuwarden, Mathematics, Music, Art, Architecture, Culture Conference Proceedings 2008*, 24-28 July 2008, Leeuwarden, The Netherlands. pp. 155-162. Tarquin Books. ISSN 1099-6702 ISBN 9780966520194.*
12. T. Csendes, L. Pál, J.O.H. Sendín, and J. R. Banga: The GLOBAL Optimization Method Revisited. *Optimization Letters* 2(2008) 445–454.
13. T.C. Henderson: Further observations on the SNL wireless Sensor Network Leadership protocol. *Proc. IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI-2008)*, Seoul, pp. 163–167, 2008.*
14. R.E. Moore, R.B. Kearfott and M.J. Cloud: *Introduction to Interval Analysis*, SIAM, Philadelphia, 2009.*
15. Kallrath, J.: Cutting circles and polygons from area-minimizing rectangles. *J. Global Optimization* 43(2009) 299-328.*
16. Gensane, T.: Generation of optimal packings from optimal packings. *Electronic J. of Combinatorics* 16(2009) 1-15.*
17. Szabó Péter Gábor: Pontok maximális szeparálása a négyzetben. Abstracts XXVIII. Magyar Operációkutatási Konferencia, Balatonőszöd, 2009, 43.
18. Szabó, P.G.: A Nonlinear Programming Case Study to a Sensor Location Problem. *Proc. Int. Conf. on Computer Systems and Technologies*, Ruse, 2009, IIIB, 11-1-6.
19. T.C. Henderson: *Computational Sensor Networks*, Springer, Berlin, 2009.*
20. K. Ishizaka: New spatial measure for dispersed-dot halftoning assuring good point distribution in any density. *IEEE T. Image Processing* 18(2009) 2030-2047.*
21. Balzer, M., Schlmer, T., Deussen, O.: Capacity-constrained point distributions: A variant of Lloyd's method. *ACM Transactions on Graphics* 28(2009) art. no. 86 1-8.*
22. Ashwin, S.S., Bowles, R.K.: A tiling approach to counting inherent structures in hard potential systems. *J. Non-Crystalline Solids* 355(2009) 700-704.*
23. T. Csendes: Interval Analysis and Verification of Mathematical Models. In: P. Baveye, J. Mysiak, and M. Laba(Eds.): *Uncertainties in Environmental Modelling and Consequences for Policy Making*, Springer, Berlin, 2009, 79–100.
24. M. Hifi and R. M'Hallah: A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. *Advances in Operations Research* 2009(2009), Article ID 150624, 22 p.*
25. L. Pál and T. Csendes: INTLAB implementation of an interval global optimization algorithm. *Optimization Methods and Software* 24(2009) 749–759.
26. S. Gravel. Using Symmetries to Solve Asymmetric Problems. PhD Dissertation, Cornell University, USA, 2009.*
27. A. Grosso, A. Jamali, M. Locatelli, F. Schoen : Solving the problem of packing equal and unequal circles in a circular container. *J. Global Optimization* 47(2010) 63-81.*
28. F. Domes: Rigorous Techniques for Continuous Constraint Satisfaction Problems. PhD Dissertation, University of Vienna, Austria, 2010.*
29. Drezner Z., Suzuki A.: Covering continuous demand in the plane. *J. Operational Research Society* 61(2010) 878-881.*
30. Bánhelyi, B. and Palatinus, E.: Reliable circle covering and its applications for telecommunication networks. *SCAN Proceedings*, Lyon, 2010, 33-34.*

31. Huang, W., Ye, T.: Greedy vacancy search algorithm for packing equal circles in a square. *Operations Research Letters* 38(2010) 378–382.*
 32. Pál, L.: Global optimization algorithms for bound constrained problems. PhD dissertation, University of Szeged, 2010.*
 33. I. Al-Mudahka, M. Hifi and R. M’Hallah: Packing circles in the smallest circle: an adaptive hybrid algorithm. *Journal of the Operational Research Society*, 2010. doi:10.1057/jors.2010.157*
 34. A. Cassioli and M. Locatelli: A heuristic approach for packing identical rectangles in convex regions. *Computers and Operations Research* 38(2011), 1342–1350.*
 35. Z. Drezner: Continuous Center Problems. In: *Foundations of Location Analysis*, (eds.: H.A. Eiselt and V. Marianov), *International Series in Operations Research & Management Science* (155), pp. 63–78, 2011.*
19. E.R. Frits, **M.Cs. Markót**, T. Csendes, Z. Lelkes, Z. Fonyó, and E. Rév: Use of interval optimization for finding limiting flows of batch extractive distillation. *J. Global Optimization* 38(2007) 297–313.
 1. Floudas C.A. and Gounaris C.E.: A review of recent advances in global optimization. *J. Global Optimization* 45(2009) 3–38.*
 2. Floudas C.A. and Gounaris C.E.: An Overview of Advances in Global Optimization during 2003–2008. In: *Lectures on global optimization* (ed. P.M. Pardalos and T.F. Coleman), *Fields Institute Communications* (55), pp. 105–154, 2009.*
 3. D.I. Gerogiorgis: Rapid Interval Arithmetic Screening of Continuous Pharmaceutical Processes. *Abstracts of the AIChE 2009 Annual Meeting, Nashville, USA, 2009*.*
 4. D.I. Gerogiorgis: Rapid Interval Arithmetic Screening of Continuous Pharmaceutical Processes with Explicit Thermodynamics. *Abstracts of the AIChE 2010 Annual Meeting, Salt Lake City, USA, 2010*.*
 5. Brito, R.P. and Machado, F.: Separation of Organic Chlorine Compounds through Batch Distillation Process. *Chemical Product and Process Modeling* 5(2010), Article 20.*
 20. **M. C. Markót**: Interval Methods for Verifying Structural Optimality of Circle Packing Configurations in the Unit Square. *J. Computational and Applied Mathematics* 199(2007), 353–357.
 1. M. Hifi and R. M’Hallah: A Literature Review on Circle and Sphere Packing Problems: Models and Methodologies. *Advances in Operations Research* 2009(2009), Article ID 150624, 22 p.*
 2. M. Hifi and R. M’Hallah: Beam search and non-linear programming tools for the circular packing problem. *International Journal of Mathematics in Operational Research* 1(2009) 476–503.*
 3. Huang, W., Ye, T.: Greedy vacancy search algorithm for packing equal circles in a square. *Operations Research Letters* 38(2010) 378–382.*
 21. **M. C. Markót**: SMPL – A Simplified Modeling Language for Mathematical Programming. Working paper, University of Vienna, 2008. www.mat.univie.ac.at/~markot/smpl.pdf
 1. F. Domes. GloptLab – A configurable framework for the rigorous global solution of quadratic constraint satisfaction problems, *Optimization Methods and Software* 24(2009) 727–747.*
 2. GloptLab – a configurable framework for solving continuous, algebraic CSPs. Booklet of IntCP 2009: Interval Analysis and Constraint Propagation for Applications — a CP2009 Workshop, Lisbon, Portugal, pp. 1–16, 2009. <http://icwww.epfl.ch/~sam/IntCP09/booklet.pdf>*
 3. M. Fuchs. GloptLab – Quickstart Guide, Working paper, University of Vienna, 2009. <http://www.mat.univie.ac.at/~dferi/gloptlab.html>*
 4. F. Domes: Rigorous Techniques for Continuous Constraint Satisfaction Problems. PhD Dissertation, University of Vienna, Austria, 2010.*
 22. C. Menon, R. Verterchy, **M. C. Markót** and V. Parenti-Castelli. Geometrical optimization of parallel mechanisms based on natural frequency evaluation: application to a spherical mechanism for future space applications. *IEEE Transactions on Robotics* 25(1), 12–24, 2009.
 1. S. Briot, A. Pashkevich, and D. Chablat: On the optimal design of parallel robots taking into account their deformations and natural frequencies. *Proc. ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE 2009*, pp. 367–376, San Diego, USA, 2009. <http://arxiv.org/pdf/0909.0108>*
 2. R. Ur-Rehman, S. Caro, D. Chablat, and P. Wenger: Multiobjective Design Optimization of 3-PRR Planar Parallel Manipulators. *Proc. 20th CIRP Design Conference, Nantes, France, 2010*. http://hal.archives-ouvertes.fr/docs/00/46/41/01/PDF/00_Main_3PRR.pdf*

23. **M. C. Markót** and H. Schichl. Comparison and automated selection of local optimization solvers for interval global optimization methods. Submitted.

1. G. Nannicini, P. Belotti, J. Lee, J. Linderoth, F. Margot and A. Wächter: A Probing Algorithm for MINLP with Failure Prediction by SVM. IBM Research Report RC25103 (W1101-112), 2011.*

* Fully independent citations.

last updated: 21-02-2011