Publications of Günther Raidl

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Most of the publications can be downloaded from https://www.ac.tuwien.ac.at/raidl.

Books

1. C. Blum, G. R. Raidl:
   Hybrid Metaheuristics – Powerful Tools for Optimization, in series Artificial Intelligence: Foundations, Theory, and Algorithms, Springer, 2016. ISBN 978-3-319-30883-8, doi:10.1007/978-3-319-30883-8.

(Co-)Edited Books and Journal Issues

1. H. R. Arabnia, P.-C. Chung, J. B. Farison, G. R. Raidl, M. Sarfraz, Z. Zhang:
   Proc. of the Int. Conference on Imaging Science, Systems, and Technology,
   CSREA Press, 1998.

2. E. J.-W. Boers, S. Cagnoni, J. Gottlieb, E. Hart, P. L. Lanzi, G. R. Raidl, R. E. Smith, H. Tijink:
   Applications of Evolutionary Computing: EvoWorkshops 2001,
   Springer LNCS 2037, 2001.

3. S. Cagnoni, J. Gottlieb, E. Hart, M. Middendorf, G. R. Raidl:
   Applications of Evolutionary Computing: EvoWorkshops 2002,
   Springer LNCS 2279, 2002.

4. G. R. Raidl, S. Cagnoni, J. J. R. Cardalda, D. Corne, J. Gottlieb, A. Guillot, E. Hart, C. G. Johnson, E. Marchiori, J.-A. Meyer, M. Middendorf:
   Applications of Evolutionary Computing: EvoWorkshops 2003,
   Springer LNCS 2611, 2003.

5. J. Gottlieb, G. R. Raidl:
   Evolutionary Computation in Combinatorial Optimization – EvoCOP 2004,
   Springer LNCS 3004, 2004.

6. G. R. Raidl, S. Cagnoni, J. Branke, D. W. Corne, R. Drechsler, Y. Jin, C. Johnson, P. Machado, E. Marchiori, F. Rothlauf, G. D. Smith, G. Squillero:
   Applications of Evolutionary Computing: EvoWorkshops 2004,
   Springer LNCS 3005, 2004.

7. J. Gottlieb, E. Hart, M. Middendorf, G. Raidl, C. Reeves:
   Journal of Mathematical Modelling and Algorithms, Special Issue on Evolutionary Computation in Combinatorial Optimization,
   3(4), Kluwer Academic Publishers, December 2004.

8. G. R. Raidl, J. Gottlieb:
   Evolutionary Computation in Combinatorial Optimization – EvoCOP 2005,
   Springer LNCS 3448, 2005.

9. H.-G. Beyer, U.-M. O'Reilly, D. Arnold, W. Banzhaf, C. Blum, E. Bonabeau, E. Cantú Paz, D. Dasgupta, K. Deb, J. Foster, E. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. Tyrrell, J.-P. Watson, E. Zitzler:
   Proc. of the Genetic and Evolutionary Computation Conference,
   GECCO-2005, New York, ACM Press, 2005.

10. D. Corne, Z. Michalewicz, M. Dorigo, G. Eiben, D. Fogel, C. Fonseca, G. Greenwood, T. K. Chen, G. R. Raidl, A. Zalzala, S. Lucas, B. Paechter, J. Willies, J. J. M. Guervos, E. Eberbach, B. McKay, A. Channon, A. Tiwari, L. G. Volkert, D. Ashlock, M. Schoenauer:
    Proc. of the 2005 IEEE Congress on Evolutionary Computation,
    Volume 1-3, Edinburgh, UK, IEEE Press, 2005.

11. J. Gottlieb, G. R. Raidl:
    Evolutionary Computation in Combinatorial Optimization – EvoCOP 2006,
    Springer LNCS 3906, 2006.

12. G. R. Raidl (Editor-in-Chief) et al.:
    GECCO '09: Proc. of the 11th Conference on Genetic and Evolutionary Computation,
    ACM Press, 2009.

13. M. J. Blesa, C. Blum, G. Raidl, A. Roli, M. Samples:
    Hybrid Metaheuristics – 7th Int. Workshop, HM 2010,
    Springer LNCS 6373, 2010.

14. P. Merz, G. Raidl:
    Part on **Evolutionary Combinatorial Optimization** in **Handbook of Computational Intelligence**,
    main editors J. Kacprzyk and W. Pedrycz, Springer, 2015, doi:10.1007/978-3-662-43505-2.

15. H. C. Lau, G. Raidl, P. van Hentenryck:
    Proceedings of the 10th Metaheuristics International Conference – MIC 2013,
    Singapore Management University, Singapore, August 2013.

Journal Articles

1. G. Raidl:
   The Multiple Container Packing Problem: A Genetic Algorithm Approach with Weighted Codings,
   invited, in ACM SIGAPP Applied Computing Review, ACM Press, 7(2), pp. 22–31, 1999.

2. G. R. Raidl, I. Ljubić:
   Evolutionary Local Search for the Edge-Biconnectivity Augmentation Problem,
   in Information Processing Letters, Elsevier, 82, pp. 39-45, 2002.

3. G. R. Raidl, B. A. Julstrom:
   Edge-Sets: An Effective Evolutionary Coding of Spanning Trees,
   IEEE Transactions on Evolutionary Computation, IEEE Press, 7(3), pp. 225–239, 2003.

4. I. Ljubić, G. R. Raidl:
   A Memetic Algorithm for Minimum-Cost Vertex-Biconnectivity Augmentation of Graphs,
   Journal of Heuristics, Kluwer Academic Publishers, 9, pp. 401–427, 2003.

5. G. R. Raidl, J. Gottlieb:
   Empirical Analysis of Locality, Heritability and Heuristic Bias in Evolutionary Algorithms: A Case Study for the Multidimensional Knapsack Problem,
   Evolutionary Computation Journal, MIT Press, 13(4), pp. 441–475, 2005.

6. G. R. Raidl:
   Evolutionary Computation: An Overview and Recent Trends,
   ÖGAI Journal, Österreichische Gesellschaft für Artificial Intelligence, Austria, 24, pp. 2–7, 2005.

7. G. R. Raidl, G. Koller, B. A. Julstrom:
   Biased Mutation Operators for Subgraph-Selection Problems,
   IEEE Transactions on Evolutionary Computation, Special Issue on Representations and Operators, IEEE Press, 10(2), pp. 145–156, 2006.

8. N. Mujezinovic, G. Raidl, J. R. A. Hutchins, J.-M. Peters, K. Mechtler, F. Eisenhaber:
Cleaning of Raw Peptide MS/MS Spectra: Improved Protein Identification Following Deconvolution of Multiply Charged Peaks, Isotope Clusters, and Removal of Background Noise,
Proteomics, Wiley, 6(19), pp. 5117–5131, 2006.

9. J. Puchinger, G. R. Raidl:
Models and Algorithms for Three-Stage Two-Dimensional Bin Packing,
European Journal of Operational Research, Feature Issue on Cutting and Packing, Elsevier, 183(3), pp. 1304–1327, 2007.

10. J. Hetzl, A. M. Foerster, G. Raidl, O. Mittelsten Scheid:
CyMATE: A New Tool for Methylation Analysis of Plant Genomic DNA after Bisulfite Sequencing,
The Plant Journal, 51(3), pp. 526–536, 2007.

11. M. Prandtstetter, G. R. Raidl:
An Integer Linear Programming Approach and a Hybrid Variable Neighborhood Search for the Car Sequencing Problem,
European Journal of Operational Research, special issue on car sequencing, 191(3), pp. 1004–1022, 2008.

12. B. Hu, M. Leitner, G. R. Raidl:
Combining Variable Neighborhood Search with Integer Linear Programming for the Generalized Minimum Spanning Tree Problem,
Journal of Heuristics, 14(5), pp. 473–499, 2008.

13. J. Puchinger, G. R. Raidl:
Bringing Order into the Neighborhoods: Relaxation Guided Variable Neighborhood Search,
Journal of Heuristics, 14(5), pp. 457–472, 2008.

14. J. Puchinger, G. R. Raidl, and U. Pferschy:
The Multidimensional Knapsack Problem: Structure and Algorithms,
INFORMS Journal on Computing, 22(2), pp. 250–265, 2010.

15. A. M. Chwatal, G. R. Raidl, K. Oberlechner:
Solving an Extended Minimum Label Spanning Tree problem to Compress Fingerprint Templates,
Journal of Mathematical Modelling and Algorithms, 8(3), pp. 293–334, 2009.

16. B. Hu, M. Leitner, G. R. Raidl:
The Generalized Minimum Edge Biconnected Network Problem: Efficient Neighborhood Structures for Variable Neighborhood Search,
Networks, 55(3), pp. 256–275, 2010.

17. M. Leitner, G. R. Raidl:
Branch-and-Cut-and-Price for Capacitated Connected Facility Location,
Journal of Mathematical Modelling and Algorithms, 10(3), pp. 245–267, 2011.

18. A. Chwatal, G. R. Raidl:
Solving the Minimum Label Spanning Tree Problem by Mathematical Programming Techniques,
Advances in Operations Research 2011(143732), 1–38, 2011, doi:10.1155/2011/143732.

19. C. Blum, J. Puchinger, G. R. Raidl, A. Roli:
Hybrid Metaheuristics in Combinatorial Optimization: A Survey,
Applied Soft Computing 11, 4135–4151, 2011.

20. C. Nothegger, A. Mayer, A. Chwatal, G. R. Raidl:
Solving the Post Enrolment Course Timetabling Problem by Ant Colony Optimization,
Annals of Operations Research, 194(1), pp. 325–339, 2012.

21. M. Leitner, M. Ruthmair, G. R. Raidl:
Stabilizing Branch-and-Price for Constrained Tree Problems,
Networks 61(2), pp. 150–170, 2013.

22. M. Rainer-Harbach, P. Papazek, G. R. Raidl, B. Hu, C. Kloimüllner:
PILOT, GRASP, and VNS Approaches for the Static Balancing of Bicycle Sharing Systems,
Journal of Global Optimization 63(3), pp. 597–629, 2015, doi:10.1007/s10898-014-0147-5.

23. B. Biesinger, B. Hu, G. R. Raidl:
Models and Algorithms for Competitive Facility Location Problems with Different Customer Behavior,
Annals of Mathematics and Artificial Intelligence 76(1–2), pp. 93–119, 2016, doi:10.1007/s10472-014-9448-0.

24. G. Raidl:
Decomposition Based Hybrid Metaheuristics,
European Journal of Operational Research 244(1), pp. 66-76, 2015, doi:0.1007/s10472-014-9448-0.

25. T. Krenek, C. Bacher, T. Lauer, G. R. Raidl:
Numerische Optimierung elektrifizierter Antriebssstränge, Motortechnische Zeitschrift 3, pp. 66-74, 2015, `https://trid.trb.org/view/1357870`.

26. T. Krenek, C. Bacher, T. Lauer, G. R. Raidl:
Numerical Optimisation of Electro-Hybrid Powertrains, MTZ Worldwide 3, pp. 46-52, 2015, doi:10.1007/s38311-015-0007-9.

27. G. Hiermann, M. Prandtstetter, A. Rendl, J. Puchinger, G. R. Raidl:
Metaheuristics for Solving a Multimodal Home-Healthcare Scheduling Problem,
Central European Journal of Operations Research, 23(1), pp. 89–113, 2015, doi:10.1007/s10100-013-0305-8.

28. B. Biesinger, B. Hu, G. R. Raidl:
A Hybrid Genetic Algorithm with Solution Archive for the Discrete $(r|p)$-Centroid Problem,
Journal of Heuristics 21(3), pp. 391–431, 2015, doi:10.1007/s10732-015-9282-5.

29. C. Blum, G. R. Raidl:
Computational Performance Evaluation of Two Integer Linear Programming Models for the Minimum Common String Partition Problem,
Optimization Letters 10(1), pp. 189–205, 2016, doi:10.1007/s11590-015-0921-4.

30. J. Inführ, G. R. Raidl:
A Memetic Algorithm for the Virtual Network Mapping Problem,
Journal of Heuristics 22(4), pp. 475–505, 2016, doi:10.1007/s10732-014-9274-x.

31. H. C. Lau, G. R. Raidl, P. Van Hentenryck:
New Developments in Metaheuristics and their Applications – Selected Extended Contributions from the 10th Metaheuristics International Conference (MIC 2013),
Journal of Heuristics 22(4), pp. 359–363, 2016, doi:10.1007/s10732-016-9313-x.

32. E. Liźarraga, M. J. Blesa, C. Blum, G. Raidl:
Large Neighborhood Search for the Most Strings with Few Bad Columns Problem,
Soft Computing 21(17), pp. 4901–4915, 2017, doi:10.1007/s00500-016-2379-4.

33. C. Kloimüllner, G. R. Raidl:
Full-Load Route Planning for Balancing Bike Sharing Systems by Logic-Based Benders Decomposition, Networks 69(3), pp. 270–289, 2017, doi:10.1002/net.21736.

34. P. C. Pop, C. Sabo, B. Biesinger, B. Hu, G. R. Raidl:
Solving the Two-State Fixed-Charge Transportation Problem with a Hybrid Genetic Algorithm, Carpathian Journal of Mathematics 33(3), pp. 365–371, 2017, `https://www.ac.tuwien.ac.at/files/pub/pop-17.pdf`.

35. B. Biesinger, B. Hu, G. R. Raidl:
A Genetic Algorithm in Combination with a Solution Archive for Solving the Generalized Vehicle Routing Problem with Stochastic Demands, Transportation Science 52(3), pp. 673–690, 2018, doi:10.1287/trsc.2017.0778.

36. M. Riedler, G. R. Raidl:
Solving a Selective Dial-a-Ride Problem with Logic-based Benders Decomposition, Computers & Operations Research 96, pp. 30–54, 2018, doi:10.1016/j.cor.2018.03.008.

37. J. Maschler, G. R. Raidl:
Particle Therapy Patient Scheduling with Limited Starting Time Variations of Daily Treatments, International Transactions in Operational Research 27(1), 2018, pp. 458–479, doi:10.1111/itor.12579.

38. M. Horn, G. R. Raidl, C. Blum:
Job Sequencing with One Common and Multiple Secondary Resources: An A*/Beam Search Based Anytime Algorithm,
Artificial Intelligence 227(103173), 2019, doi:10.1016/j.artint.2019.103173.

39. M. Riedler, T. Jatschka, J. Maschler, G. R. Raidl:
An Iterative Time-Bucket Refinement Algorithm for a High-Resolution Resource-Constrained Project Scheduling Problem, International Transactions in Operational Research, International Transactions in Operational Research 27(1), , pp. 573–613, 2020, doi:10.1111/itor.12445.

40. B. Klocker, H. Fleischner, G. R. Raidl:
A Model for Finding Transition-Minors,
Discrete Applied Mathematics 228, pp. 242–264, 2020, doi:10.1016/j.dam.2020.01.006.

41. B. Klocker, H. Fleischner, G. R. Raidl:
A Lower Bound for the Smallest Uniquely Hamiltonian Planar Graph with Minimum Degree Three,
Applied Mathematics and Computation 380(125233), 2020, doi:10.1016/j.amc.2020.125233.

42. M. Djukanovic, G. R. Raidl, C. Blum:
Anytime Algorithms for the Longest Common Palindromic Subsequence Problem,
Computers & Operations Research 114(104827), 2020, doi:10.1016/j.cor.2019.104827.

43. C. Blum, M. Djukanovic, A. Santini, H. Jiang, C.-M. Li, F. Manya, G. R. Raidl:
Solving Longest Common Subsequence Problems via a Transformation to the Maximum Clique Problem,
Computers & Operations Research 125(105089), 2021, doi:10.1016/j.cor.2020.105089.

44. **An A* Search Algorithm for the Constrained Longest Common Subsequence Problem**,
Information Processing Letters 166(106041), 2020, doi:10.1016/j.ipl.2020.106041.

45. **Finding Longest Common Subsequences: New Anytime A$*$ Search Results**,
Applied Soft Computing 95(106400), 2020, doi:10.1016/j.asoc.2020.106499.

46. J. Maschler, G. R. Raidl:
Multivalued Decision Diagrams for Prize-Collecting Job Sequencing with One Common and Multiple Secondary Resources,
Annals of Operations Research 302, pp. 507-531, 2021, doi:10.1007/s10479-019-03479-6.

47. M. Horn, G. R. Raidl, E. Rönnberg:
A* Search for Prize-Collecting Job Sequencing with One Common and Multiple Secondary Resources,
Annals of Operations Research 302, pp. 477-501, 2021, doi:10.1007/s10479-020-03550-7.

48. M. Horn, J. Maschler, G. R. Raidl, E. Rönnberg:
A^*-based Construction of Decision Diagrams for a Prize-Collecting Scheduling Problem,
Computers & Operations Research 126(105125), 2021, doi:10.1016/j.cor.2020.105125.

49. C. Blum , M. Djukanovic, A. Santini, H. Jiang, C.-M. Li, F. Manya, G. R. Raidl:
    Solving Longest Common Subsequence Problems via a Transformation to the Maximum Clique Problem,
    Computers & Operations Research 125(105089), 2021, doi:10.1016/j.cor.2020.105089.

50. B. Nikolic, A. Kartelj, M. Djukanovic M. Grbic, C. Blum, G. Raidl:
    Solving the Longest Common Subsequence Problem Concerning Non-Uniform Distributions of Letters in Input Strings,
    Mathematics 9(13), art.nr. 1515, 2021, doi:10.3390/math9131515.

51. T. Jatschka, G. R. Raidl, T. Rodemann:
    A General Cooperative Optimization Approach for Distributing Service Points in Mobility Applications,
    Algorithms 14(8), art.nr. 232, 2021, doi:10.3390/a14080232.

Book Chapters

1. G. R. Raidl, J. Puchinger:
   Combining (Integer) Linear Programming Techniques and Metaheuristics for Combinatorial Optimization,
   in C. Blum and others: Hybrid Metaheuristics – An Emergent Approach for Combinatorial Optimization, volume 114 of Studies in Computational Intelligence, Springer, pp. 31–62, 2008.

2. S. Pirkwieser, G. R. Raidl, J. Puchinger:
   A Lagrangian Decomposition/Evolutionary Algorithm Hybrid for the Knapsack Constrained Maximum Spanning Tree problem,
   in C. Cotta and J. van Hemert: Recent Advances in Evolutionary Computation for Combinatorial Optimization, volume 153 of Studies in Computational Intelligence, Springer, pp. 69–85, 2008.

3. M. Gruber and G. R. Raidl:
   (Meta-)Heuristic Separation of Jump Cuts in a Branch&Cut Approach for the Bounded Diameter Minimum Spanning Tree Problem,
   Matheuristics – Hybridizing Metaheuristics and Mathematical Programming, Annals of Information Systems, Vol. 10, Springer, pp. 209–230, 2009.

4. J. Puchinger, G. R. Raidl, S. Pirkwieser:
   MetaBoosting: Enhancing Integer Programming Techniques by Metaheuristics,
   Matheuristics – Hybridizing Metaheuristics and Mathematical Programming, Annals of Information Systems, Vol. 10, Springer, pp. 71–102, 2009.

5. C. Blum, J. Puchinger, G. R. Raidl, A. Roli:
   Hybrid Metaheuristics,
   CPAIOR 10th Anniversary, Springer, accepted 2009.

6. M. Leitner, G. R. Raidl:
   Combining Lagrangian Decomposition with Very Large Scale Neighborhood Search for Capacitated Connected Facility Location,
   Post-Conference Book of the Eight Metaheuristics International Conference – MIC 2009, accepted 2010.

7. G. R. Raidl, J. Puchinger, and C. Blum:
   Metaheuristic Hybrids,
   in M. Gendreau and J. Y. Potvin: Handbook of Metaheuristics, 2nd edition, Int. Series in Operations Research & Management Science, volume 146, Springer, pp. 469–496, 2010.

8. M. Pimmer, G. R. Raidl:
   A Timeslot-Filling Based Heuristic Approach to Construct High-School Timetables,
   in L. Di Gaspero, A. Schaerf, T. Stützle: Advances in Metaheuristics, Operations Research/Computer Science Interfaces Series, volume 53, Springer, pp. 143–158, 2013.

9. G. R. Raidl, J. Puchinger, C. Blum:
   Metaheuristic Hybrids,
   in M. Gendreau and J. Y. Potvin: Handbook of Metaheuristics, pages 385–417, 2019, Springer, doi:10.1007/978-3-319-91086-4.

10. B. Biesinger, B. Hu, G. R. Raidl:
    A Memetic Algorithm for Competitive Facility Location Problems, in Business and Consumer Analytics: New Ideas, Springer, pp. 637–660, 2019, doi:10.1007/978-3-030-06222-4_15.

Refereed Conference Papers

1. G. R. Raidl:
   Skillful Genotype Decoding in EAs for Solving the Cutting Problem,
   in Proc. of the 5th Annual Conference on Evolutionary Programming, San Diego, CA, pp. 113–120, February 1996.

2. G. R. Raidl, W. Barth:
   Fast Adaptive Previewing by Ray Tracing,
   in Proc. of the 12th Spring Conference on Computer Graphics, Comenius University Bratislava, Bratislava/Budmerice, Slovakia, pp. 247–255, June 1996.

3. G. R. Raidl:
   Solving the General Cutting Problem with an Improved Genetic Algorithm,
   (modified version of 1.), in Proc. of the 11th Int. Conference on Systems Engineering, Las Vegas, NV, pp. 680–685, July 1996.

4. G. R. Raidl, I. Tastl:
   Finding a Perceptual Uniform Color Space with Evolution Strategies,
   in Proc. of the 4th IEEE Conference on Evolutionary Computation, Indianapolis, IN, pp. 513–517, April 1997.

5. G. R. Raidl:
   Using Evolutionary Computation for Finding Compact Shape Arrangements,
   invited, in Proc. of the Australasia–Pacific Forum on Intelligent Processing and Manufacturing of Materials, Gold Coast, Australia, pp. 349–355, July 1997.

6. G. R. Raidl, I. Tastl, C. Wurm:
   Automated Generation of Free-Form Deformations by Using Evolution Strategies,
   in Proc. of the 6th Int. Workshop on Digital Image Processing and Computer Graphics, Vienna, Austria, pp. 177–184, October 1997.

7. I. Tastl, G. R. Raidl:
   Transforming an Analytically Defined Color Space to Match Psychophysically Gained Color Distances,
   in Proc. of the SPIE's 10th Int. Symposium on Electronic Imaging: Science and Technology, San Jose, CA, SPIE volume 3300, pp. 98–106, January 1998.

8. G. R. Raidl, C. Wurm:
   Approximation with Evolutionary Optimized Tensor Product Bernstein Polynomials,
   in Proc. of the Int. Conference on Artificial Intelligence in Industry: From Theory to Practice, High Tatras, Slovakia, pp. 247–256, April 1998.

9. G. R. Raidl:
   An Improved Genetic Algorithm for the Multiconstrained 0–1 Knapsack Problem,
   in Proc. of the 5th IEEE Conference on Evolutionary Computation at the 1998 IEEE World Congress on Computational Intelligence, Anchorage, Alaska, pp. 207–211, May 1998.

10. G. R. Raidl:
    A Genetic Algorithm for Labeling Point Features,
    invited, in Proc. of the Int. Conference on Imaging Science, Systems, and Technology, Las Vegas, NV, pp. 189–196, July 1998.

11. G. R. Raidl:
    A Hybrid GP Approach for Numerically Robust Symbolic Regression,
    in Proc. of the 1998 Genetic Programming Conference, Madison, Wisconsin, pp. 323–328, July
    1998.

12. G. R. Raidl, G. Kodydek:
    **Evolutionary Optimized Tensor Product Bernstein Polynomials versus Backpropa-
    gation Networks**,
    in Proc. of the Int. ICSC/IFAC Symposium on Neural Computation, Vienna, Austria, pp. 885–
    890, September 1998.

13. G. R. Raidl, G. Kodydek:
    Genetic Algorithms for the Multiple Container Packing Problem,
    in Proc. of the 5th Int. Conference on Parallel Problem Solving from Nature V, Amsterdam, The
    Netherlands, Springer LNCS 1498, pp. 875–884, September 1998.

14. G. R. Raidl:
    A Weight-Coded Genetic Algorithm for the Multiple Container Packing Problem,
    selected as best paper of the EC-track, in Proc. of the 14th ACM Symposium on Applied
    Computing, San Antonio, TX, pp. 291–296, February 1999.

15. G. R. Raidl:
    Weight-Codings in a Genetic Algorithm for the Multiconstraint Knapsack Problem,
    in Proc. of the 1999 IEEE Congress on Evolutionary Computation, Washington DC, pp. 596–603,
    July 1999.

16. G. R. Raidl:
    An Evolutionary Approach to Point-Feature Label Placement,
    short paper in Proc. of the 1999 Genetic and Evolutionary Computation Conference, Orlando,
    FL, p. 807, July 1999.

17. J. Gottlieb, G. R. Raidl:
    **Characterizing Locality in Decoder-Based EAs for the Multidimensional Knapsack
    Problem**,
    in Proc. of the 4th Conference on Artificial Evolution, Dunkerque, France, Springer LNCS 1829,
    pp. 38–51, November 1999.

18. G. R. Raidl, B. A. Julstrom:
    **A Weighted Coding in a Genetic Algorithm for the Degree-Constrained Minimum
    Spanning Tree Problem**,
    in Proc. of the 15th ACM Symposium on Applied Computing, Como, Italy, pp. 440–445, March
    2000.

19. J. Gottlieb, G. R. Raidl:
    The Effects of Locality on the Dynamics of Decoder-Based Evolutionary Search,
    in Proc. of the 2000 Genetic and Evolutionary Computation Conference, Las Vegas, NV, pp.
    283–290, July 2000.

20. G. R. Raidl:
    **An Efficient Evolutionary Algorithm for the Degree-Constrained Minimum Spanning
    Tree Problem**,
    in Proc. of the 2000 IEEE Congress on Evolutionary Computation, San Diego, CA, pp. 104–111,
    July 2000.

21. I. Ljubić, G. R. Raidl, J. Kratica:
    A Hybrid GA for the Edge-Biconnectivity Augmentation Problem,
    in Proc. of the Int. Conference on Parallel Problem Solving from Nature VI, Paris, France, Springer
    LNCS 1917, pp. 641–650, September 2000.

22. B. A. Julstrom, G. R. Raidl:
    Weight-Biased Edge-Crossover in Evolutionary Algorithms for Two Graph Problems,
    in Proc. of the 16th ACM Symposium on Applied Computing, Las Vegas, NV, pp. 321–326, March
    2001.

23. I. Ljubić, G. R. Raidl:
    An Evolutionary Algorithm with Stochastic Hill-Climbing for the Edge-Biconnectivity Augmentation Problem,
    in Applications of Evolutionary Computing, Proc. of EvoWorkshops 2001, Como, Italy, Springer LNCS 2037, pp. 20–29, April 2001.

24. J. Gottlieb, B. A. Julstrom, G. R. Raidl, F. Rothlauf:
    Prüfer Numbers: A Poor Representation of Spanning Trees for Evolutionary Search,
    in Proc. of the Genetic and Evolutionary Computation Conference, San Francisco, CA, pp. 343–350, July 2001.

25. B. A. Julstrom, G. R. Raidl:
    Initialization is Robust in Evolutionary Algorithms that Encode Spanning Trees as Sets of Edges,
    in Proc. of the 2002 ACM Symposium on Applied Computing, Madrid, Spain, pp. 547–552, March 2002.

26. S. Kersting, G. R. Raidl, I. Ljubić:
    A Memetic Algorithm for the Vertex-Biconnectivity Augmentation Problem,
    in Applications of Evolutionary Computing, Proc. of EvoWorkshops 2002, Kinsale, Ireland, Springer LNCS 2279, pp. 102–111, April 2002.

27. M. Schreyer, G. R. Raidl:
    Letting Ants Labeling Point Features,
    in Proc. of the 2002 IEEE Congress on Evolutionary Computation at the IEEE World Congress on Computational Intelligence, pp. 1564–1569, May 2002.

28. G. R. Raidl, G. Kodydek, B. A. Julstrom:
    On Weight-Biased Mutation for Graph Problems,
    in Proc. of the Int. Conference on Parallel Problem Solving From Nature VII, Las Palmas, Spain, Springer LNCS 2439, pp. 204–213, September 2002.

29. G. R. Raidl, B. A. Julstrom:
    Greedy Heuristics and an Evolutionary Algorithm for the Bounded-Diameter Minimum Spanning Tree Problem,
    in Proc. of the 2003 ACM Symposium on Applied Computing, Melbourne, FL, pp. 747–752, March 2003.

30. B. A. Julstrom, G. R. Raidl:
    A Permutation-Coded Evolutionary Algorithm for the Bounded-Diameter Minimum Spanning Tree Problem,
    in the 2003 GECCO Workshops Proc., Workshop on Analysis and Design of Representations (ADoRO), *best paper award winner of the workshop*, Chicago, IL, pp. 2–7, July 2003.

31. H. Feltl, G. R. Raidl:
    An Improved Hybrid Genetic Algorithm for the Generalized Assignment Problem,
    in Proc. of the 2004 ACM Symposium on Applied Computing, pp. 990–995, Nicosia, Cyprus, March 2004.

32. J. Puchinger, G. R. Raidl, G. Koller:
    Solving a Real-World Glass Cutting Problem,
    in Evolutionary Computation in Combinatorial Optimization – EvoCOP 2004, Coimbra, Portugal, Springer LNCS 3004, pp. 162–173, April 2004.

33. G. W. Klau, I. Ljubić, A. Moser, P. Mutzel, P. Neuner, U. Pferschy, G. Raidl, R. Weiskircher:
    Combining a Memetic Algorithm with Integer Programming to Solve the Prize-Collecting Steiner Tree Problem,
    Genetic and Evolutionary Computation – GECCO 2004, Seatttle, Washington, Springer LNCS 3102, pp. 1304–1315, June 2004.

34. J. Puchinger, G. R. Raidl:
    An Evolutionary Algorithm for Column Generation in Integer Programming: an

Effective Approach for 2D Bin Packing,
in Parallel Problem Solving from Nature – PPSN VIII, Birmingham, U.K., Springer LNCS 3102, pp. 642–651, September 2004.

35. G. Koller, G. R. Raidl:
An Evolutionary Algorithm for the Maximum Weight Trace Formulation of the Multiple Sequence Alignment Problem,
in Parallel Problem Solving from Nature – PPSN VIII, Birmingham, U.K., Springer LNCS 3102, pp. 642–651, September 2004.

36. M. Gruber, G. R. Raidl:
A New 0–1 ILP Approach for the Bounded Diameter Minimum Spanning Tree Problem,
2nd Int. Network Optimization Conference, vol. 1, pp. 178–185, Lisbon, Portugal, March 2005.

37. J. Puchinger, G. R. Raidl:
Combining Metaheuristics and Exact Algorithms in Combinatorial Optimization: A Survey and Classification,
in Artificial Intelligence and Knowledge Engineering Applications: A Bioinspired Approach, Proc. of the First Int. Work-Conference on the Interplay Between Natural and Artificial Computation, Part II, Canary Islands, Spain, Springer LNCS 3562, pp. 41–53, June 2005.

38. J. Puchinger, G. R. Raidl, M. Gruber:
Cooperating Memetic and Branch-and-Cut Algorithms for Solving the Multidimensional Knapsack Problem,
in Proc. of MIC2005, the 6th Metaheuristics International Conference, Vienna, Austria, pp. 775–780, August 2005.

39. M. Gruber, G. R. Raidl:
Variable Neighborhood Search for the Bounded Diameter Minimum Spanning Tree Problem,
in Proc. of the 18th Mini Euro Conference on Variable Neighborhood Search, Tenerife, Spain, November 2005.

40. B. Hu, M. Leitner, G. R. Raidl:
Computing Generalized Minimum Spanning Trees with Variable Neighborhood Search,
in Proc. of the 18th Mini Euro Conference on Variable Neighborhood Search, Tenerife, Spain, November 2005.

41. M. Prandtstetter, G. R. Raidl:
A variable neighborhood search approach for solving the car sequencing problem,
in Proc. of the 18th Mini Euro Conference on Variable Neighborhood Search, Tenerife, Spain, November 2005.

42. J. Puchinger, G. R. Raidl:
Relaxation Guided Variable Neighborhood Search,
in Proc. of the 18th Mini Euro Conference on Variable Neighborhood Search, Tenerife, Spain, November 2005.

43. J. Puchinger, G. R. Raidl, U. Pferschy:
The Core Concept for the Multidimensional Knapsack Problem,
in Evolutionary Computation in Combinatorial Optimization – EvoCOP 2006, Budapest, Hungary, Springer LNCS 3906, pp. 195-208, April 2006.

44. A. Pagacz, G. R. Raidl, S. Zawiślak:
Evolutionary Approach to Constrained Minimum Spanning Tree Problem,
in Proc. of the Evolutionary Computation and Global Optimization 2006 Conference, Murzasichle, Poland, May 2006.

45. M. Gruber, J. van Hemert, G. R. Raidl:
Neighborhood Searches for the Bounded Diameter Minimum Spanning Tree Problem

Embedded in a VNS, EA, and ACO,
in Proc. of the Genetic and Evolutionary Computation Conference, Seattle, USA, ACM Press,
vol. 2, pp. 1187–1194, July 2006.

46. G. R. Raidl:
A Unified View on Hybrid Metaheuristics,
in Proc. of the 3rd Workshop on Hybrid Metaheuristics, Las Palmas, Spain, Springer LNCS 4030,
pp. 1–12, October 2006.

47. S. Pirkwieser, G. R. Raidl, J. Puchinger:
Combining Lagrangian Decomposition with an Evolutionary Algorithm for the Knapsack Constrained Maximum Spanning Tree Problem,
in Evolutionary Computation in Combinatorial Optimization – EvoCOP 2007, Valencia, Spain,
Springer LNCS 4446, pp. 176–187, April 2007.

48. D. Wagner, U. Pferschy, P. Mutzel, G. R. Raidl, P. Bachhiesl:
A Directed Cut Model for the Design of the Last Mile in Real-World Fiber Optic Networks,
in Proc. of the Int. Network Optimization Conference – INOC 2007, Spa, Belgium, pp. 103/1–6,
April 2007.

49. M. Leitner, B. Hu, G. R. Raidl:
Variable Neighborhood Search for the Generalized Minimum Edge Biconnected Network Problem,
in Proc. of the Int. Network Optimization Conference – INOC 2007, Spa, Belgium, pp. 69/1–6,
April 2007.

50. A. M. Chwatal, G. R. Raidl:
Determination of Orbital Elements of Extrasolar Planets by Evolution Strategies,
in Proc. of the 11th Int. Conf. on Computer Aides Systems Theory – EUROCAST 2007, Las
Palmas, Spain, Springer LNCS 4739, pp. 870–877 , February 2007.

51. A. M. Chwatal, G. R. Raidl, O. Dietzel:
Compressing Fingerprint Templates by Solving an Extended Minimum Label Spanning Tree Problem,
in Proc. of the 7th Metaheuristics International Conference, Montreal, Canada, pp. 105/1–3,
August 2007.

52. G. R. Raidl, A. M. Chwatal:
Fingerprint Template Compression by Solving a Minimum Label k-Node Subtree Problem,
in Proc. of the Int. Conference on Numerical Analysis and Applied Mathematics, Corfu, Greece,
American Institute of Physics Conference Proc. 936, pp. 444–447, September 2007.

53. B. Hu and G. R. Raidl:
Effective Neighborhood Structures for the Generalized Traveling Salesman Problem,
in Evolutionary Computation in Combinatorial Optimization – EvoCOP 2008, Naples, Italy, **best paper award winner**, Springer LNCS 4972, pp. 36–47, March 2008.

54. S. Pirkwieser and G. R. Raidl:
Finding Consensus Trees by Evolutionary, Variable Neighborhood Search, and Hybrid Algorithms,
in Proceedings of the 10th Annual Conference on Genetic and Evolutionary Computation –
GECCO 2008, Atlanta, USA, ACM Press, pp. 323–330, July 2008.

55. M. Gruber and G. R. Raidl:
(Meta-)Heuristic Separation of Jump Cuts for the Bounded Diameter Minimum Spanning Tree Problem,
in Proc. of Matheuristics 2008: Second International Workshop on Model Based Metaheuristics,
Bertinoro, Italy, June 2008.

56. M. Gruber and G. R. Raidl:
Heuristic Cut Separation in a Branch&Cut Approach for the Bounded Diameter Minimum Spanning Tree Problem,
in Proc. of the 2008 International Symposium on Applications and the Internet – SAINT 2008, Turku, Finland, IEEE Computer Society, pp. 261–264, July 2008.

57. M. Leitner and G. R. Raidl:
Variable Neighborhood Search for a Prize Collecting Capacity Constrained Connected Facility Location Problem,
in Proc. of the 2008 International Symposium on Applications and the Internet – SAINT 2008, Turku, Finland, IEEE Computer Society, pp. 233–236, July 2008.

58. S. Pirkwieser, R. Ruiz-Torrubiano, G. R. Raidl:
Exact Methods and Metaheuristic Approaches for Deriving High Quality Fully Resolved Consensus Trees,
in BIRD'08, 2nd International Conference on Bioinformatics Research and Development, Vienna, Austria, Trauner Verlag, Schriftenreihe Informatik 26, pp. 115–124, July 2008.

59. A. Mayer, C. Nothegger, A. M. Chwatal, G. R. Raidl:
Solving the Post Enrolment Course Timetabling Problem by Ant Colony Optimization,
in Proc. of the 7th International Conference on the Practice and Theory of Automated Timetabling, Montreal, Canada, August 2008.

60. B. Hu and G. R. Raidl:
Solving the Railway Traveling Salesman Problem via a Transformation into the Classical Traveling Salesman Problem,
in Proc. of the 8th International Conference on Hybrid Intelligent Systems – HIS 2008, Barcelona, Spain, pp. 73–77, September 2008.

61. M. Leitner and G. R. Raidl:
Lagrangian Decomposition, Metaheuristics, and Hybrid Approaches for the Design of the Last Mile in Fiber Optic Networks,
in Hybrid Metaheuristics 2008, Malaga, Spain, Springer LNCS 5296, pp. 158–174, October 2008.

62. M. Prandtstetter and G. R. Raidl:
Combining Forces to Reconstruct Strip Shredded Text Documents,
in Hybrid Metaheuristics 2008, Malaga, Spain, Springer LNCS 5296, pp. 175–189, October 2008.

63. G. R. Raidl, M. Gruber:
A Lagrangian Relax-and-Cut Approach for the Bounded Diameter Minimum Spanning Tree Problem,
in Proc. of the International Conference on Numerical Analysis and Applied Mathematics, Corfu, Greece, American Institute of Physics Conference Proc. 1048, pp. 446–449, September 2008.

64. S. Pirkwieser, G. R. Raidl:
A Variable Neighborhood Search for the Periodic Vehicle Routing Problem with Time Windows,
in Proc. of the 9th EU/MEeting on Metaheuristics for Logistics and Vehicle Routing, Troyes, France, October 2008.

65. M. Gruber, G. R. Raidl:
Solving the Euclidean Bounded Diameter Minimum Spanning Tree Problem by Clustering-Based (Meta-)Heuristics,
in Proc. of the 12th International Conf. on Computer Aided Systems Theory – EUROCAST 2009, Las Palmas, Spain, Springer LNCS 5717, pp. 665–672.

66. M. Ruthmair, G. R. Raidl:
A Kruskal-Based Heuristic for the Rooted Delay-Constrained Minimum Spanning Tree Problem,
in Proc. of the 12th International Conf. on Computer Aided Systems Theory – EUROCAST 2009, Las Palmas, Spain, Springer LNCS 5715, pp. 713–720.

67. A. Chwatal, G. R. Raidl:
Fitting Rectangular Signals to Time Series Data by Metaheuristic Algorithms,
in Proc. of the 12th International Conf. on Computer Aided Systems Theory – EUROCAST 2009, Las Palmas, Spain, Springer LNCS 5717, pp. 649–656.

68. M. Prandtstetter, G. R. Raidl, T. Misar:
A Hybrid Algorithm for Computing Tours in a Spare Parts Warehouse,
in Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2009, Tübingen, Germany, Springer LNCS 5482, pp. 25–36, 2009.

69. M. Leitner, G. R. Raidl, U. Pferschy:
Accelerating Column Generation for a Survivable Network Design Problem,
in Proc. of the International Network Optimization Conference 2009, Pisa, Italy, April 2009.

70. S. Pirkwieser, G. R. Raidl:
A Column Generation Approach for the Periodic Vehicle Routing Problem with Time Windows,
in Proc. of the International Network Optimization Conference 2009, Pisa, Italy, April 2009.

71. A. M. Chwatal, N. Musil, G. R. Raidl:
Solving a Multi-Constrained Network Design Problem by Lagrangean Decomposition and Column Generation,
in Proc. of the International Network Optimization Conference 2009, Pisa, Italy, April 2009.

72. M. Gruber, G. R. Raidl:
Exploiting Hierarchical Clustering for Finding Bounded Diameter Minimum Spanning Trees on Euclidean Instances,
in Proc. of the 11th Annual Conference on Genetic and Evolutionary Computation – GECCO 2009, Montreal, Canada, ACM Press, pp. 263–270, July 2009.

73. M. Prandtstetter, G. R. Raidl:
Meta-Heuristics for Reconstructing Cross Cut Shredded Text Documents,
in Proc. of the 11th Annual Conference on Genetic and Evolutionary Computation – GECCO 2009, Montreal, Canada, ACM Press, pp. 349–356, July 2009.

74. M. Leitner, G. R. Raidl:
A Lagrangian Decomposition Based Heuristic for Capacitated Connected Facility Location,
in Proc. of the 8th Metaheuristics Int. Conference, Hamburg, Germany, July 2009.

75. S. Pirkwieser, G. R. Raidl:
Boosting a Variable Neighborhood Search for the Periodic Vehicle Routing Problem with Time Windows by ILP Techniques,
in Proc. of the 8th Metaheuristics Int. Conference, Hamburg, Germany, July 2009.

76. B. Hu, G. R. Raidl:
A Memetic Algorithm for the Generalized Minimum Vertex-Biconnected Network Problem,
in Proc. of the 9th Int. Conference on Hybrid Intelligent Systems – HIS 2009,
best paper award winner, Shenyang, China, pp. 63-68, August 2009.

77. U. Ritzinger, M. Prandtstetter, G. R. Raidl:
Computing Optimized Stock (Re-)Placements in Last-In, First-Out Warehouses,
in Logistik Management: Systeme, Methoden, Integration, Hamburg, Germany, Physica Verlag, pp. 279–298, September 2009.

78. J. Walla, M. Ruthmair, G. R. Raidl:
Solving a Video-Server Load Re-Balancing Problem by Mixed Integer Programming and Hybrid Variable Neighborhood Search,
in Hybrid Metaheuristics 2009, Udine, Italy, Springer LNCS 5818, pp. 84–99, October 2009.

79. S. Pirkwieser, G. R. Raidl:
Multiple Variable Neighborhood Search Enriched with ILP Techniques for the Periodic Vehicle Routing Problem with Time Windows,
in Hybrid Metaheuristics 2009, Udine, Italy, Springer LNCS 5818, pp. 175–189, October 2009.

80. G. R. Raidl, B. Hu:
Enhancing Genetic Algorithms by a Trie-Based Complete Solution Archive,
in Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2010, Istanbul, Turkey, *best paper award winner*, Springer LNCS 6022, pp. 239–251, April 2010.

81. S. Pirkwieser, G. R. Raidl:
Multilevel Variable Neighborhood Search for Periodic Routing Problems,
in Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2010, Istanbul, Turkey, Springer LNCS 6022, pp. 226–238, April 2010.

82. M. Suntinger, H. Obweger, J. Schiefer, Philip Limbeck, G. R. Raidl:
Trend-Based Similarity Search in Time-Series Data,
in Proc. of the Second International Conference on Advances in Database, Knowledge, and Data Applications – DBKDA 2010, IEEE CPS, pp. 97–106, April 2010.

83. H. Obweger, M. Suntinger, J. Schiefer, G. R. Raidl:
Similarity Searching in Sequences of Complex Events,
in Proc. of the Fourth International Conference on Research Challenges in Information Science – RCIS 2010, IEEE CPS, pp. 631–639, May 2010.

84. M. Leitner, G. R. Raidl:
Strong Lower Bounds for a Survivable Network Design Problem,
ISCO 2010 – International Symposium on Combinatorial Optimization, Elsevier ENDM 36, pp. 295–302, Hammamet, Tunisia, March 2010.

85. A. M. Chwatal, G. R. Raidl, M. Zöch:
Fitting Multi-Planet Transit Models to Photometric Time-Data Series by Evolution Strategies,
in Proc. of the 12th Annual Conference on Genetic and Evolutionary Computation – GECCO 2010, ACM Press, pp. 377–384, Portland, Oregon, July 2010.

86. A. M. Chwatal, G. R. Raidl:
Solving the Minimum Label Spanning Tree Problem by Ant Colony Optimization,
in Proc. of the 2010 International Conference on Genetic and Evolutionary Methods, GEM 2010, CSREA Press, Las Vegas, Nevada, July 2010.

87. S. Pirkwieser, G. R. Raidl:
Matheuristics for the Periodic Vehicle Routing Problem with Time Windows,
in Proc. of Matheuristics 2010: Third International Workshop on Model Based Metaheuristics, Vienna, Austria, pp. 83–95, June 2010.

88. C. Blum, J. Puchinger, G. R. Raidl, A. Roli:
A Brief Survey on Hybrid Metaheuristics,
in Proc. of BIOMA 2010 – 4th International Conference on Bioinspired Optimization Methods and their Applications, Ljubljana, Slovenia, pp. 3–16, May 2010.

89. A. Chwatal, G. R. Raidl:
Fitting Multi-Planet Transit Models to Photometric Time-Data Series by Evolution Strategies,
in Proc. of the 12th Annual Conference on Genetic and Evolutionary Computation, ACM Press, pp. 377-384, Portland, Oregon, July 2010.

90. A. Chwatal, G. R. Raidl:
Solving the Minimum Label Spanning Tree Problem by Ant Colony Optimization,
in Proc. of the 2010 Int. Conference on Genetic and Evolutionary Methods, GEM 2010, CSREA Press, Las Vegas, NV, July 2010.

91. M. Ruthmair, G. R. Raidl:
Variable Neighborhood Search and Ant Colony Optimization for the Rooted Delay-Constrained Minimum Spanning Tree Problem,
in Parallel Problem Solving from Nature – PPSN XI, Part II, Springer LNCS 6239, pp. 391–400, September 2010.

92. S. Pirkwieser, G. R. Raidl:
Variable Neighborhood Search Coupled with ILP-Based Large Neighborhood Searches for the (Periodic) Location-Routing Problem,
in Hybrid Metaheuristics, 7th Int. Workshop, HM 2010, Springer LNCS 6373, Vienna, Austria, pp. 174–189, October 2010.

93. C. Schauer, M. Prandtstetter, G. R. Raidl:
A Memetic Algorithm for Reconstructing Cross-Cut Shredded Text Documents,
in Hybrid Metaheuristics, 7th Int. Workshop, HM 2010, Springer LNCS 6373, Vienna, Austria, pp. 103–117, October 2010.

94. A. Pagacz, B. Hu, G. R. Raidl:
A Memetic Algorithm with Population Management for the Generalized Minimum Vertex-Biconnected Network Problem,
in Proc. of the 2nd International Conference on Intelligent Networking and Collaborative Systems, Workshop on Information Network Design, WIND 2010, Conference Publishing Services, Thessaloniki, Greece, pp. 356–361, November 2010.

95. M. Ruthmair, G. R. Raidl:
A Memetic Algorithm and a Solution Archive for the Rooted Delay-Constrained Minimum Spanning Tree Problem,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 351–358, 2012.

96. M. Berlakovich, M. Ruthmair, G. R. Raidl:
A Multilevel Heuristic for the Rooted Delay-Constrained Minimum Spanning Tree Problem,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 256–263, 2012.

97. M. Leitner, G. R. Raidl:
Variable Neighborhood and Greedy Randomized Adaptive Search for Capacitated Connected Facility Location,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 295–302, 2012.

98. S. Pirkwieser, G. R. Raidl, J. Gottlieb:
Improved Packing and Routing of Vehicles with Compartments,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 392–399, 2012.

99. B. Hu, G. Raidl:
An Evolutionary Algorithm with Solution Archive for the Generalized Minimum Spanning Tree Problem,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 287–294, 2012.

100. J. Inführ, G. R. Raidl:
Automatic Generation of 2-AntWars Players with Genetic Programming,
in Proc. of the 13th International Conf. on Computer Aided Systems Theory – EUROCAST 2011, Las Palmas, Las Palmas, Spain, Springer LNCS 6927, pp. 248–255, 2012.

101. M. Ruthmair, G. R. Raidl:
A Layered Graph Model and an Adaptive Layers Framework to Solve Delay-Constrained Minimum Tree Problems,
in Proc. of the 15th Conference on Integer Programming and Combinatorial Optimization (IPCO XV), Springer LNCS 6655, New York, USA, pp. 376–388, June 2011.

102. M. Leitner, M. Ruthmair, G. R. Raidl:
Stabilized Branch-and-Price for the Rooted Delay-Constrained Steiner Tree Problem,
in Network Optimization: 5th International Conference, INOC 2011, Springer LNCS 6701, Hamburg, Germany, 124–138, June 2011.

103. J. Inführ, G. R. Raidl:
Introducing the Virtual Network Mapping Problem with Delay, Routing and Location,
in Network Optimization: 5th International Conference, INOC 2011, Springer LNCS 6701, Hamburg, Germany, 105–117, June 2011.

104. M. Leitner, M. Ruthmair, G. R. Raidl:
Stabilized Column Generation for the Rooted Delay-Constrained Steiner Tree Problem,
in Proc. of the VII ALIO/EURO – Workshop on Applied Combinatorial Optimization, Porto, Portugal, pp. 250–253, May 2011.

105. M. Pimmer, G. R. Raidl:
Timeslot-Filling Based Heuristic Approach to Construct High-School Timetables,
in Proc. of the 9th Metaheuristics International Conference – MIC 2011, Udine, Italy, pp. 349–358, July 2011.

106. S. Pirkwieser, G. R. Raidl, J. Gottlieb:
Tackling the Loading Aspect of the Vehicle Routing Problem with Compartments,
in Proc. of the 9th Metaheuristics International Conference – MIC 2011, Udine, Italy, pp. 679–681, July 2011.

107. A. M. Chwatal, C. Thöni, K. Oberlechner, G. R. Raidl:
A Branch-and-Cut-and-Price Algorithm for a Fingerprint-Template Compression Application,
in Proc. of the 2011 Federated Conference on Computer Science and Information Systems (FedCSIS), IEEE Digital Library, Szczecin, Poland, pp. 239–246, September 2011.

108. T. Krenek, M. Ruthmair, G. R. Raidl, M. Planer:
Applying (Hybrid) Metaheuristics to Fuel Consumption Optimization of Hybrid Electric Vehicles,
in Applications of Evolutionary Computation – EvoApplications 2012, Malaga, Spain, Springer LNCS 7248, pp. 376–385, April 2012.

109. M. Schwengerer, S. Pirkwieser, G. R. Raidl:
A Variable Neighborhood Search Approach for the Two-Echelon Location-Routing Problem,
in Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2012, Malaga, Spain, Springer LNCS 7245, pp. 13–23, April 2012.

110. A. Rendl, M. Prandtstetter, G. Hiermann, J. Puchinger, G. R. Raidl:
Hybrid Heuristics for Multimodal Homecare Scheduling,
in Proc. of the 9th Int. Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CPAIOR'12), Nantes, France, Springer LNCS 7298, pp. 339-355, May 2012.

111. M. Ruthmair, G. R. Raidl:
On Solving the Rooted Delay- and Delay-Variation-Constrained Steiner Tree Problem,
Proc. of the 2nd Int. Symposium on Combinatorial Optimization, Athens, Greece, Springer LNCS 7422, pp. 225–236, April 2012.

112. B. Hu, G. R. Raidl:
An Evolutionary Algorithm with Solution Archives and Bounding Extension for the Generalized Minimum Spanning Tree Problem,
Proc. of the 14th Annual Conference on Genetic and Evolutionary Computation (GECCO), Philadelphia, PA, ACM Press, pp. 393-400, July 2012.

113. C. Schauer, G. R. Raidl:
Variable Neighborhood Search and GRASP for Three-Layer Hierarchical Ring Network Design,
Parallel Problem Solving from Nature – PPSN XII, Taormina, Italy, Springer LNCS 7492, pp. 458–467, September 2012.

114. P. Papazek, G. R. Raidl, M. Rainer-Harbach, B. Hu:
A PILOT/VND/GRASP Hybrid for Balancing Bicycle Sharing Systems,
in Proceedings of the 14th International Conf. on Computer Aided Systems Theory – EURO-CAST 2013, Las Palmas, Spain, Springer LNCS 8111, pp. 372–379, 2013

115. B. Hu, W. Ölz, G. R. Raidl:
A Mixed Integer Model for the Stamina-Aware Sightseeing Tour Problem,
in Proceedings of the 14th International Conf. on Computer Aided Systems Theory – EURO-CAST 2013, Las Palmas, Spain, pp. 200–202. February 2013.

116. P. Pop, B. Hu, G. R. Raidl:
A Memetic Algorithm for the Partition Graph Coloring Problem,
in Proceedings of the 14th International Conf. on Computer Aided Systems Theory – EURO-CAST 2013, Las Palmas, Spain, Springer LNCS 8111, pp. 219–226, 2013

117. B. Biesinger, C. Schauer, B. Hu, G. R. Raidl:
Reconstructing Cross Cut Shredded Documents with a Genetic Algorithm with Solution Archive,
in Proceedings of the 14th International Conf. on Computer Aided Systems Theory – EURO-CAST 2013, Las Palmas, Spain, Springer LNCS 8111, pp. 380–387, 2013

118. J. Inführ, D. Stezenbach, M. Hartmann, K. Tutschku, G. R. Raidl:
Using Optimized Virtual Network Embedding for Network Dimensioning,
in Proc. of Networked Systems 2013, Stuttgart, Germany, pp. 118–125, IEEE, March 2013.

119. M. Rainer-Harbach, P. Papazek, B. Hu, G. R. Raidl:
Balancing Bicycle Sharing Systems: A Variable Neighborhood Search Approach,
in Evolutionary Computation in Combinatorial Optimisation – 13th European Conference, Evo-COP 2013, ***best paper award winner***, Springer LNCS 7832, Vienna, Austria, pp. 121–132, April 2013.

120. J. Inführ, G. R. Raidl:
Solving the Virtual Network Mapping Problem with Construction Heuristics, Local Search and Variable Neighborhood Descent,
in Evolutionary Computation in Combinatorial Optimisation – 13th European Conference, Evo-COP 2013, Springer LNCS 7832, Vienna, Austria, pp. 250–261, April 2013.

121. G. R. Raidl, B. Hu, M. Rainer-Harbach, P. Papazek:
Balancing Bicycle Sharing Systems: Improving a VNS by Efficiently Determining Optimal Loading Operations,
in Hybrid Metaheuristics, 8th Int. Workshop, HM 2013, Springer LNCS 7919, Ischia, Italy, pp. 130–143, May 2013.

122. J. Inführ, G. R. Raidl:
GRASP and Variable Neighborhood Search for the Virtual Network Mapping Problem,
in Hybrid Metaheuristics, 8th Int. Workshop, HM 2013, Springer LNCS 7919, Ischia, Italy, pp. 159–173, May 2013.

123. A. Schöbel, G. R. Raidl, I. Grujicic, G. Besau, G. Schuster:
An Optimization Model for Integrated Timetable Based Design of Railway Infrastructure,
in Proceedings of the 5th International Seminar on Railway Operations Modelling and Analysis – RailCopenhagen 2013, Copenhagen, Denmark, pp. 765–774, May 2013.

124. P. Jahrmann, G. R. Raidl:
Clique and Independent Set Based GRASP Approaches for the Regenerator Location Problem,
in Proceedings of the 10th Metaheuristics International Conference – MIC 2013, Singapore, pp. 30/1–30/10, August 2013.

125. J. Inführ, G. R. Raidl:
A Memetic Algorithm for the Virtual Network Mapping Problem,
in Proceedings of the 10th Metaheuristics International Conference – MIC 2013, Singapore, pp. 28/1–28/10, August 2013.

126. I. Grujičić, G. Raidl, A. Schöbel, G. Besau:
A Metaheuristic Approach for Integrated Timetable based Design of Railway Infrastructure,
in Proceedings of the 3rd Int. Conference on Road and Rail Infrastructure, CETRA 2014, Split, Croatia, pp. 691–696, April 2014.

127. B. Biesinger, B. Hu, G. R. Raidl:
An Evolutionary Algorithm for the Leader-Follower Facility Location Problem with Proportional Customer Behavior,
in Conference Proceedings of Learning and Intelligent Optimization, LION 8, Springer LNCS 8426, Gainesville, FL, 203–217, February 2014.

128. C. Kloimüllner, P. Papazek, B. Hu, G. R. Raidl:
Balancing Bicycle Sharing Systems: An Approach for the Dynamic Case,
in Evolutionary Computation in Combinatorial Optimisation – 14th European Conference, EvoCOP 2014, Springer LNCS 8600, Granada, Spain, pp. 73–84, April 2014.

129. G. R. Raidl, T. Baumhauer, B. Hu:
Speeding up Logic-Based Benders' Decomposition by a Metaheuristic for a Bi-Level Capacitated Vehicle Routing Problem,
in Hybrid Metaheuristics, 9th Int. Workshop, HM 2014, Springer LNCS 8457, Hamburg, Germany, pp. 183–197, June 2014.

130. F. Dusberger, G. R. Raidl:
A Variable Neighborhood Search Using Very Large Neighborhood Structures for the 3-Staged 2-Dimensional Cutting Stock Problem,
in Hybrid Metaheuristics, 9th Int. Workshop, HM 2014, Springer LNCS 8457, Hamburg, Germany, pp. 85–99, June 2014.

131. P. Papazek, C. Kloimüllner, B. Hu, G. R. Raidl:
Balancing Bicycle Sharing Systems: An Analysis of Path Relinking and Recombination within a GRASP Hybrid,
Parallel Problem Solving from Nature, PPSN XIII, Ljubljana, Slovenia, Springer LNCS 8672, pp. 792–801, September 2014.

132. F. Dusberger, G. R. Raidl:
Solving the 3-Staged 2-Dimensional Cutting Stock Problem by Dynamic Programming and Variable Neighborhood Search,
in Proceedings of the 3rd Int. Conference on Variable Neighborhood Search, VNS 2014, Djerba, Tunisia, Elsevier ENDM, 47, pp. 133-140, October 2014.

133. I. Grujicic, G. R. Raidl, A. Schöbel:
Variable Neighbourhood Search for Integrated Timetable Design of Railway Infrastructure,
in Proceedings of the 3rd Int. Conference on Variable Neighborhood Search, VNS 2014, Djerba, Tunisia, Elsevier ENDM, 47, pp. 141–148, October 2014.

134. G. R. Raidl, T. Baumhauer, B. Hu:
Boosting an Exact Logic-Based Benders Decomposition Approach by Variable Neighborhood Search,
in Proceedings of the 3rd Int. Conference on Variable Neighborhood Search, VNS 2014, Djerba, Tunisia, Elsevier ENDM, 47, pp. 149–156, October 2014.

135. A. Tus, A. Rendl, G. R. Raidl:
Metaheuristics for the Two-Dimensional Container Pre-Marshalling Problem,
in Conference Proceedings of Learning and Intelligent Optimization, LION 9, Springer LNCS 8994, pp. 186-201, Lille, France, January 2015, doi:10.1007/978-3-319-19084-6_17.

136. C. Bacher, G. R. Raidl, T. Krenek:
A New Type of Metamodel for Longitudinal Dynamics Optimization of Hybrid Electric Vehicles,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 425–432, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_53.

137. F. Dusberger, G. R. Raidl:
A Scalable Approach for the k-Staged Two-Dimensional Cutting Stock Problem with Variable Sheet Size,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 384–392, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_48.

138. C. Weiler, B. Biesinger, G. R. Raidl:
Heuristic Approaches for the Probabilistic Traveling Salesman Problem,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 342–349, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_43.

139. C. Kloimüllner, P. Papazek, B. Hu, G. R. Raidl:
A Cluster-First Route-Second Approach for Balancing Bicycle Sharing Systems,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 439–446, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_55.

140. D. Markvica, C. Schauer, G. R. Raidl:
CPU versus GPU Parallelization of an Ant Colony Optimization for the Longest Common Subsequence Problem,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 401-408, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_50.

141. C. Schauer, G. R. Raidl:
On the Comparison of Decoding Strategies for a Memetic Algorithm for the Multi-Layer Hierarchical Ring Network Design Problem,
in Proceedings of the 15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Springer LNCS 9520, pp. 279–285, Las Palmas, Spain, February 2015, doi:10.1007/978-3-319-27340-2_34.

142. B. Biesinger, B. Hu, G. R. Raidl:
A Variable Neighborhood Search for the Generalized Vehicle Routing Problem with Stochastic Demands,
in Evolutionary Computation in Combinatorial Optimisation – 15th European Conference, EvoCOP 2015, Springer LNCS 9026, Cophenhagen, Denmark, pp. 48–60, April 2015, doi:10.1007/978-3-319-16468-7_5.

143. B. Hu, A. Windbichler, G. R. Raidl:
A New Solution Representation for the Firefighter Problem,
in Evolutionary Computation in Combinatorial Optimisation – 15th European Conference, EvoCOP 2015, Springer LNCS 9026, Cophenhagen, Denmark, pp. 25–35, April 2015, doi:10.1007/978-3-319-16468-7_3.

144. B. Biesinger, B. Hu, G. R. Raidl:
An Integer L-Shaped Method for the Generalized Vehicle Routing Problem with Stochastic Demands,

in Proceedings of Network Optimization: 5th International Conference, INOC 2015, Warsaw, Poland, Elsevier ENDM, 52, pp. 245–252, 2016, doi:10.1016/j.endm.2016.03.033.

145. C. Schauer, G. R. Raidl:
A Multi-Commodity Flow Based Model for Multi Layer Hierarchical Ring Network Design,
in Proceedings of Network Optimization: 5th International Conference, INOC 2015, Warsaw, Poland, Elsevier ENDM, 52, pp. 189–196, 2016, doi:10.1016/j.endm.2016.03.025.

146. E. Lizárraga, M. J. Blesa, C. Blum, G. R. Raidl:
On Solving the Most Strings With Few Bad Columns Problem: An ILP Model and Heuristics,
in Proceedings of the 2015 Int. Symposium on Innovations in Intelligent Systems and Applications, INISTA 2015, Madrid, Spain, pp. 1–8, IEEE Xplore, 2015, doi:10.1109/INISTA.2015.7276795.

147. M. Prischink, C. Kloimüllner, B. Biesinger, G. R. Raidl:
Districting and Routing for Security Control,
in Hybrid Metaheuristics, 10th Int. Workshop, HM 2016, Springer LNCS 9668, Plymouth, UK, pp. 87–103, June 2016, doi:10.1007/978-3-319-39636-1_7.

148. B. Klocker, H. Fleischner, G. R. Raidl:
Finding Uniquely Hamiltonian Graphs of Minimum Degree Three with Small Crossing Numbers,
in Hybrid Metaheuristics, 10th Int. Workshop, HM 2016, Springer LNCS 9668, Plymouth, UK, pp. 1–16, June 2016, doi:10.1007/978-3-319-39636-1_1.

149. J. Maschler, M. Riedler, M. Stock, G. R. Raidl:
Particle Therapy Patient Scheduling: First Heuristic Approaches, in Proceedings of the 11th International Conference of the Practice and Theory of Automated Timetabling, PATAT 2016, Udine, Italy, pp. 223–244, August 2016, `http://patatconference.org/patat2016/files/proceedings/paper_20.pdf`.

150. G. R. Raidl, T. Jatschka, M. Riedler, J. Maschler:
Time-Bucket Relaxation Based Mixed Integer Programming Models for Scheduling Problems: A Promising Starting Point for Matheuristics, in Proceedings of Matheuristics 2016 – 6th Int. Workshop on Model-Based Metaheuristics, Brussels, Belgium, pp. 104–107, September 2016, `https://www.ac.tuwien.ac.at/files/pub/raidl-16.pdf`.

151. J. Maschler, G. R. Raidl:
A Logic-Based Benders Decomposition Approach for the 3-Staged Strip Packing Problem, in Operations Research Proceedings 2015 – Selected Papers of the International Conference of the German, Austrian and Swiss Operations Research Societies (GOR, ÖGOR, SVOR/ASRO), Vienna, Austria, September 2015. Springer, pp. 85–102, 2017, doi:10.1007/978-3-319-42902-1_53.

152. F. Dusberger, G. R. Raidl:
A Scalable Approach for the K-Staged Two-Dimensional Cutting Stock Problem, in Operations Research Proceedings 2015 – Selected Papers of the International Conference of the German, Austrian and Swiss Operations Research Societies (GOR, ÖGOR, SVOR/ASRO), Vienna, Austria, September 2015. Springer, pp. 385–391, 2017, doi:10.1007/978-3-319-42902-1_52.

153. B.-M. Kim, C. Kloimüllner, G. R. Raidl:
Efficient Consideration of Soft Time Windows in a Large Neighborhood Search for the Districting and Routing Problem for Security Control, in Evolutionary Computation in Combinatorial Optimisation – 15th European Conference, EvoCOP 2017, Springer LNCS 10197, pp. 91–107, Amsterdam, The Netherlands, April 2017, doi:10.1007/978-3-319-55453-2_7.

154. J. Maschler, T. Hackl, M. Riedler, G. R. Raidl:
An Enhanced Iterated Greedy Metaheuristic for the Particle Therapy Patient Scheduling Problem, in Proceedings of the 12th Metaheuristics International Conference (MIC 2017), pp. 465–474, Barcelona, Spain, January 2017, `https://www.ac.tuwien.ac.at/files/pub/maschler_17a.pdf`.

155. J. Maschler, M. Riedler, G. R. Raidl:
Particle Therapy Patient Scheduling: Time Estimation to Schedule Sets of Treatments,
in Proceedings of the 16th International Conference on Computer Aided Systems Theory (EUROCAST 2017), Springer LNCS 10671, pp. 364–372, Las Palmas, Spain, February 2017, doi:10.1007/978-3-319-74718-7_44.

156. B. Klocker, G. R. Raidl:
Solving a Weighted Set Covering Problem for Improving Algorithms for Cutting Stock Problems with Setup Costs by Solution Merging,
in Proceedings of the 16th International Conference on Computer Aided Systems Theory (EUROCAST 2017), Springer LNCS 10671, pp. 355–363, Las Palmas, Spain, February 2017, doi:10.1007/978-3-319-74718-7_43.

157. A. Expósito, G. R. Raidl, Julio Brito, J. A. Moreno-Pérez:
GRASP-VNS for a Periodic VRP with Time Windows to Deal with Milk Collection,
in Proceedings of the 16th International Conference on Computer Aided Systems Theory (EUROCAST 2017), Springer LNCS 10671, pp. 299–306, Las Palmas, Spain, February 2017, doi:10.1007/978-3-319-74718-7_36.

158. B. Klocker, H. Fleischner, G. Raidl:
Finding Smooth Graphs with Small Independence Numbers,
in Proceedings of the Third International Conference on Machine Learning Optimization and Big Data (MOD 2017), Springer LNCS 10710, pp. 527–539, Volterra, Italy, 2018, doi:10.1007/978-3-319-72926-8_44.

159. M. Horn, G. Raidl, C. Blum:
Job Sequencing with One Common and Multiple Secondary Resources: A Problem Motivated from Particle Therapy for Cancer Treatment,
in Proceedings of the Third International Conference on Machine Learning Optimization and Big Data (MOD 2017), Springer LNCS 10710, pp. 506–518, Volterra, Italy, 2018, doi:10.1007/978-3-319-72926-8_42.

160. C. Kloimüllner, G. R. Raidl:
Hierarchical Clustering and Multilevel Refinement for the Bike-Sharing Station Planning Problem,
in Conference Proceedings of Learning and Intelligent Optimization Conference (LION 11), Springer LNCS 10556, pp. 1–16, Novgorod, Russia, 2017, doi:10.1007/978-3-319-69404-7_11.

161. M. Straub, C. Rudloff, A. Graser, C. Kloimüllner, G. R. Raidl, M. Pajones, F. Beyer:
Semi-Automated Location Planning for Urban Bike-Sharing Systems,
in Proceedings of the 7th Transport Research Arena (TRA 2018), pp. 1–10, Vienna, Austria, 2018, doi:10.5281/zenodo.1483822.

162. J. Maschler, G. R. Raidl:
Multivalued Decision Diagrams for a Prize-Collecting Sequencing Problem,
in PATAT 2018: Proceedings of the 12th International Conference of the Practice and Theory of Automated Timetabling, pp. 375–397, Vienna, Austria, 2018, `https://patatconference.org/patat2018/files/proceedings/paper36.pdf`.

163. M. Horn, G. R. Raidl, E. Rönnberg:
An A* Algorithm for Solving a Prize-Collecting Sequencing Problem with One Common and Multiple Secondary Resources and Time Windows,
in PATAT 2018: Proceedings of the 12th International Conference of the Practice and Theory of Automated Timetabling, pp. 235–256, Vienna, Austria, 2018, `https://patatconference.org/patat2018/files/proceedings/paper51.pdf`.

164. M. Djukanovic, G. R. Raidl, C. Blum:
Exact and Heuristic Approaches for the Longest Common Palindromic Subsequence Problem,
in Conference Proceedings of Learning and Intelligent Optimization Conference (LION 12), Springer LNCS 11353, pp. 199–214, 2019, doi:10.1007/978-3-030-05348-2_18.

165. M. Riedler, M. Ruthmair, G. R. Raidl:
Strategies for Iteratively Refining Layered Graph Models,
in Hybrid Metaheuristics, 11th Int. Workshop, HM 2019, Springer LNCS 11299, pp. 46–62,
Concepcion, Chile, 2019, doi:10.1007/978-3-030-05983-5_4.

166. C. Blum D. Thiruvady, A. Ernst, M. Horn, G. R. Raidl:
A Biased Random Key Genetic Algorithm with Rollout Evaluations for the Resource Constraint Job Scheduling Problem,
in Proceedings of AI 2019: Advances in Artificial Intelligence, Springer LNCS 11919, pp. 549–560,
2019, doi:10.1007/978-3-030-35288-2_44.

167. T. Jatschka, T. Rodemann, G. R. Raidl:
A Cooperative Optimization Approach for Distributing Service Points in Mobility Applications,
in Proceedings of EvoCOP 2019 – Evolutionary Computation in Combinatorial Optimization,
Springer LNCS 11452, pp. 1–16, 2019, doi:10.1007/978-3-030-16711-0_1.

168. B. Klocker, H. Fleischner, G. R. Raidl:
A SAT Approach for Finding Sup-Transition-Minors,
Learning and Intelligent Optimization. LION 2019, Springer LNCS 11968, pp. 325–341, 2020,
doi:10.1007/978-3-030-38629-0_27.

169. C. Kloimüllner, G. R. Raidl:
A Novel Approach for Solving Large-Scale Bike Sharing Station Planning Problems,
Learning and Intelligent Optimization. LION 2019, Springer LNCS 11968, pp. 184–200, 2020,
doi:10.1007/978-3-030-38629-0_15.

170. N. Frohner, G. R. Raidl:
Towards Improving Merging Heuristics for Binary Decision Diagrams,
Learning and Intelligent Optimization. LION 2019, Springer LNCS 11968, pp. 30–45, 2020,
doi:10.1007/978-3-030-38629-0_3.

171. M. Djukanovic, G. R. Raidl, C. Blum:
A Beam Search for the Longest Common Subsequence Problem Guided by a Novel Approximate Expected Length Calculation,
in Proceedings of the 5th on Machine Learning, Optimization and Data Science, LOD 2019,
Springer LNCS 11943, pp. 154–167, 2020, doi:10.1007/978-3-030-37599-7_14.

172. T. Jatschka, T. Rodemann, G. R. Raidl:
Exploiting Similar Behavior of Users in a Cooperative Optimization Approach for Distributing Service Points in Mobility Applications,
in Proceedings of the 5th on Machine Learning, Optimization and Data Science, LOD 2019,
Springer LNCS 11943, pp. 738–750, 2020, doi:10.1007/978-3-030-37599-7_61.

173. N. Frohner, G. R. Raidl:
Merging Quality Estimation for Binary Decision Diagrams with Binary Classifiers,
in Proceedings of the 5th on Machine Learning, Optimization and Data Science, LOD 2019,
Springer LNCS 11943, pp. 445–457, 2020, doi:10.1007/978-3-030-37599-7_37.

174. M. Djukanovic, G. R. Raidl, C. Blum:
A Heuristic Approach for Solving the Longest Common Square Subsequence Problem,
in Proceedings of the 17th International Conference on Computer Aided Systems Theory (EUROCAST 2019), Springer LNCS 12013, pp. 429–437, 2020, doi:10.1007/978-3-030-45093-9_52.

175. M. Horn, G. R. Raidl:
Decision Diagram Based Limited Discrepancy Search for a Job Sequencing Problem,
in Proceedings of the 17th International Conference on Computer Aided Systems Theory (EUROCAST 2019), Springer LNCS 12013, pp. 344–351, 2020, doi:10.1007/978-3-030-45093-9_42.

176. N. Frohner, S. Teuschl, G. R. Raidl:
Casual Employee Scheduling with Constraint Programming and Metaheuristics,

in Proceedings of the 17th International Conference on Computer Aided Systems Theory (EU-ROCAST 2019), Springer LNCS 12013, pp. 279–287, 2020, doi:10.1007/978-3-030-45093-9_34.

177. T. Jatschka, T. Rodemann, G. R. Raidl:
VNS and PBIG as Optimization Cores in a Cooperative Optimization Approach for Distributing Service Points,
in Proceedings of the 17th International Conference on Computer Aided Systems Theory (EU-ROCAST 2019), Springer LNCS 12013, pp. 255-266, 2020, doi:10.1007/978-3-030-45093-9_31.

178. N. Frohner, B. Neumann, G. R. Raidl:
A Beam Search Approach to the Traveling Tournament Problem,
in Proceedings of EvoCOP 2020 – Evolutionary Computation in Combinatorial Optimization, Springer LNCS 12102, pp. 67–82, 2020, doi:10.1007/978-3-030-43680-3_5.

179. M. Djukanovic, C. Berger, G. R. Raidl, C. Blum:
On Solving a Generalized Constrained Longest Common Subsequence Problem,
in Optimization and Algorithms, Proceedings of OPTIMA 2020 – XI International Conference Optimization and Applications, Springer LNCS 12422, pp. 55–79, 2020, doi:10.1007/978-3-030-62867-3_5.

180. N. Frohner, G. R. Raidl:
A Double-Horizon Approach to a Purely Dynamic and Stochastic Vehicle Routing Problem with Delivery Deadlines and Shift Flexibility,
in Proceedings of the 13th International Conference on the Practice and Theory of Automated Timetabling - PATAT 2020: Volume I, Bruges, Belgium, 2020, http://www.patatconference.org/patat2022/proceedings/papers/6.%20PATAT_2020_paper_71.pdf.

181. T. Kaufmann, M. Horn, G. R. Raidl:
A Variable Neighborhood Search for the Job Sequencing with One Common and Multiple Secondary Resources Problem,
in Proceedings of PPSN XVI: Parallel Problem Solving from Nature, Springer LNCS 12270, pp. 385–398, 2020, doi:10.1007/978-3-030-58115-2_27.

182. T. Jatschka, F. Oberweger, T. Rodemann, G. R. Raidl:
Distributing Battery Swapping Stations for Electric Scooters in an Urban Area,
in Optimization and Algorithms, Proceedings of OPTIMA 2020 – XI International Conference Optimization and Applications, Springer LNCS 12422, pp. 150–165, doi:10.1007/978-3-030-62867-3_12.

183. N. Frohner, M. Horn, G. R. Raidl:
Route Duration Prediction in a Stochastic and Dynamic Vehicle Routing Problem with Short Delivery Deadlines,
in Proceedings of the 2nd International Conference on Industry 4.0 and Smart Manufacturing (ISM 2020), Springer Procedia Computer Science 180, pp. 366–370, 2021, doi:10.1016/j.procs.2021.01.175.

184. M. Horn, N. Frohner, G. R. Raidl:
Driver Shift Planning for an Online Store with Short Delivery Times,
in Proceedings of the 2nd International Conference on Industry 4.0 and Smart Manufacturing (ISM 2020), Springer Procedia Computer Science 180, pp. 517–524, 2021, doi:10.1016/j.procs.2021.01.270.

185. A. Bracher, N. Frohner, G. R. Raidl:
Learning Surrogate Functions for the Short-Horizon Planning in Same-Day Delivery Problems,
in Proceedings of 17th International Conference on Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR'21), Springer LNCS 12735, pp. 283–298, 2021, doi:10.1007/978-3-030-78230-6_5.

186. M. Horn, G. R. Raidl:
A∗-Based Compilation of Relaxed Decision Diagrams for the Longest Common Subsequence Problem,

in Proceedings of 17th International Conference on Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR'21), Springer LNCS 12735, pp. 72–88, 2021, doi:10.1007/978-3-030-78230-6_18.

187. M. Huber, G. R. Raidl:
Learning Beam Search: Utilizing Machine Learning to Guide Beam Search for Solving Combinatorial Optimization Problems,
in Machine Learning, Optimization, and Data Science – 7th International Conference, LOD 2021, Springer LNCS, to appear.

188. T. Jatschka, G. R. Raidl, T. Rodemann:
A Large Neighborhood Search for a Cooperative Optimization Approach to Distribute Service Points in Mobility Applications,
in Proceedings of the 8th Int. Conf. on Metaheuristics and Nature Inspired Computing (META 2021), Springer LNCS, to appear.

Further Conference Papers

1. G. R. Raidl, J. Gottlieb:
On the Importance of Phenotypic Duplicate Elimination in Decoder-Based Evolutionary Algorithms,
in Late-Breaking Papers Proc. of the 1999 Genetic and Evolutionary Computation Conference, Orlando, FL, pp. 204–211, July 1999.

2. G. R. Raidl, C. Drexel:
A Predecessor Coding in an Evolutionary Algorithm for the Capacitated Minimum Spanning Tree Problem,
in Late-Breaking-Papers Proc. of the 2000 Genetic and Evolutionary Computation Conference, Las Vegas, NV, pp. 309–316, July 2000.

3. D. Wagner, G. R. Raidl, U. Pferschy, P. Mutzel, P. Bachhiesl:
A Multi-Commodity Flow Approach for the Design of the Last Mile in Real-World Fiber Optic Networks,
in Proc. of Operations Research 2006, Karlsruhe, Germany, September 2006.

4. A. Chwatal, G. Wuchterl, G. R. Raidl:
Fitting Multi-Planet Transit Models to CoRoT Time-Data Series by Evolutionary Algorithms,
Abstract and poster presentation at the First CoRoT Int. Symposium, Paris, France, February 2009.

5. G. R. Raidl:
Cooperative Hybrids for Combinatorial Optimization,
in Nature Inspired Cooperative Strategies for Optimization (NICSO 2008), Studies in Computational Intelligence 236, Springer, p. X, 2009.

6. G. R. Raidl, E. Causevic, B. Hu, M. Rainer-Harbach:
Balancing Bicycle Sharing Systems by Variable Neighborhood Search,
Abstract in Proc. of the 2nd Mini EURO Conference on Variable Neighborhood Search (MEC-VNS 2012), Herceg Novi, Montenegro, 2012.

Diploma Thesis

- G. R. Raidl:
Eine Simulation für den DLX–Prozessor,
diploma thesis at the Institute of Computer Engineering, Vienna University of Technology, Austria, 1992.

PhD Thesis

- G. R. Raidl:
  Progressives, adaptives Ray–Tracing von Bildern mit hoher zeitlicher Kohärenz,
  Ph.D. thesis at the Institute of Computer Graphics, Vienna University of Technology, Austria, 1994.

Habilitation

- G. R. Raidl:
  Hybrid Evolutionary Algorithms for Combinatorial Optimization,
  Habilitation thesis at the Vienna University of Technology, Austria, March 2003.

Other Publications

1. G. R. Raidl, H. Mühlehner:
   Objektorientiertes Programmieren in C++,
   textbook for C++ courses at the WIFI Vienna, WIFI Vienna, Austria, 1991.

2. G. Raidl, J. Karner:
   Dem Leben abgeschaut,
   in Transfer – Wege zur Innovation, 1(1), pp. 8–9, WEKA-Verlag, 1999.

3. G. R. Raidl, G. Kodydek:
   Tools that can be Combined with EAs in Highly Effective Ways,
   in Fit for the Future (1), p. 19, EvoNet, Napier University, Edingburgh, U.K., September 2001.

4. P. Mutzel, G. Raidl:
   Algorithmen und Datenstrukturen 2,
   textbook for the lecture with the same name at the Vienna University of Technology, Vienna, Austria, September 2001.

5. P. Mutzel, G. Raidl:
   Algorithmen und Datenstrukturen 1,
   textbook for the lecture with the same name at the Vienna University of Technology, Vienna, Austria, February 2002.

Presentations at Conferences and Invited Talks

1. **Skillful Genotype Decoding in EAs for Solving the Cutting Problem**,
   5th Annual Conference on Evolutionary Programming, San Diego, CA, February 1996.

2. **Fast Adaptive Previewing by Ray Tracing**,
   12th Spring Conference on Computer Graphics, Comenius University of Bratislava, Bratislava/Budmerice, Slovakia, June 1996.

3. **Solving the General Cutting Problem with an Improved Genetic Algorithm**,
   11th Int. Conference on Systems Engineering, Las Vegas, NV, July 1996.

4. **Finding a Perceptual Uniform Color Space with Evolution Strategies**,
   4th IEEE Conference on Evolutionary Computation, Indianapolis, IN, April 1997.

5. **Using Evolutionary Computation for Finding Compact Shape Arrangements**,
   invited talk at the Australasia–Pacific Forum on Intelligent Processing and Manufacturing of Materials, Gold Coast, Australia, July 1997.

6. **Automated Generation of Free-Form Deformations by Using Evolution Strategies**,
   6th Int. Workshop on Digital Image Processing and Computer Graphics, Vienna, Austria, October 1997.

7. **Approximation with Evolutionary Optimized Tensor Product Bernstein Polynomials**,
Int. Conference on Artificial Intelligence in Industry: From Theory to Practice, High Tatras, Slovakia, April 1998.

8. **An Improved Genetic Algorithm for the Multiconstrained 0–1 Knapsack Problem**,
1998 IEEE Conference on Evolutionary Computation at the IEEE World Congress on Computational Intelligence, Anchorage, Alaska, May 1998.

9. **A Genetic Algorithm for Labeling Point Features**,
invited talk at the Int. Conference on Imaging Science, Systems, and Technology, Las Vegas, NV, July 1998.

10. **A Hybrid GP Approach for Numerically Robust Symbolic Regression**,
1998 Genetic Programming Conference, Madison, Wisconsin, July 1998.

11. **Evolutionäre Algorithmen: Alte Probleme in Wirtschaft und Wissenschaft auf neue Weise optimieren**,
ExpoNet, Vienna, Austria, February 1999.

12. **A Weight-Coded Genetic Algorithm for the Multiple Container Packing Problem**,
14th ACM Symposium on Applied Computing, San Antonio, TX, February 1999.

13. **Weight-Codings in a Genetic Algorithm for the Multiconstraint Knapsack Problem**,
1999 IEEE Congress on Evolutionary Computation, Washington DC, July 1999.

14. **An Evolutionary Approach to Point-Feature Label Placement**,
1999 Genetic and Evolutionary Computation Conference, Orlando, FL, July 1999. (poster presentation)

15. **On the Importance of Phenotypic Duplicate Elimination in Decoder-Based Evolutionary Algorithms**,
1999 Genetic and Evolutionary Computation Conference, Orlando, FL, July 1999. (poster presentation)

16. **Characterizing Locality in Decoder-Based EAs for the Multidimensional Knapsack Problem**,
4th Conference on Artificial Evolution, Dunkerque, France, November 1999.

17. **A Weighted Coding in a Genetic Algorithm for the Degree-Constrained Minimum Spanning Tree Problem**,
15th ACM Symposium on Applied Computing, Como, Italy, March 2000.

18. **A Predecessor Coding in an Evolutionary Algorithm for the Capacitated Minimum Spanning Tree Problem**,
2000 Genetic and Evolutionary Computation Conference, Las Vegas, NV, July 2000.

19. **An Efficient Evolutionary Algorithm for the Degree-Constrained Minimum Spanning Tree Problem**,
2000 IEEE Congress on Evolutionary Computation, San Diego, CA, July 2000.

20. **Experiences in Teaching Evolutionary Computation at the Vienna University of Technology**,
invited talk at the 2000 IEEE Congress on Evolutionary Computation, Workshop on Evolutionary Algorithm Teaching and Education, San Diego, CA, July 2000.

21. **Prüfer Numbers: A Poor Representation of Spanning Trees for Evolutionary Search**,
Genetic and Evolutionary Computation Conference, San Francisco, CA, July 2001.

22. **Evolutionary Computation for Hard Network Design Problems**,
invited talk at the University of Cologne, Institute for Informatics, as part of a two week research visit, Cologne, Germany, February 2002.

23. **Initialization is Robust in Evolutionary Algorithms that Encode Spanning Trees as Sets of Edges**,
2002 ACM Symposium on Applied Computing, Madrid, Spain, March 2002.

24. **A Performance Comparison of Alternative Heuristics for the Flow Shop Scheduling Problem**,
EvoWorkshops 2002, Kinsale, Ireland, April 2002.

25. **Letting Ants Labeling Point Features**,
2002 IEEE Congress on Evolutionary Computation at the IEEE World Congress on Computational Intelligence, May 2002.

26. **On Weight-Biased Mutation for Graph Problems**,
Int. Conference on Parallel Problem Solving From Nature VII, Granada, Spain, September 2002.

27. **On the Hybridization of Evolutionary Algorithms**,
invited key-note talk at the Workshop on Application of Hybrid Evolutionary Algorithms to NP-Complete Problems, Genetic and Evolutionary Computation Conference 2003, Chicago, IL, July 2003.

28. **Neue heuristische Lösungsansätze für das Multiple Sequence Alignment Problem**,
invited talk at the Research Institute of Molecular Pathology, Biocenter Vienna, Vienna, Austria, August 2003.

29. **Evolutionary Computation for Combinatorial Optimization**,
tutorial at the EvoNet Summer School 2003, University of Parma, Italy, September 2003.

30. **An Improved Hybrid Genetic Algorithm for the Generalized Assignment Problem**,
ACM Symposium on Applied Computing, Nicosia, Cyprus, March 2004.

31. **Hybrid Estimation of Distribution Algorithm for Multiobjective Knapsack Problem**,
4th Conference on Evolutionary Computation in Combinatorial Optimization (EvoCOP), Coimbra, Portugal, April 2004.

32. **New ILP Approaches for 3-Staged Two-Dimensional Bin Packing**,
20th European Conference on Operational Research (EURO XX), Rhodes, Greece, July 2004.

33. **Some Thoughts on How to Make Memetic Algorithms More Effective**,
invited talk at the panel discussion of the 5th Workshop on Memetic Algorithms, the Int. Conference on Parallel Problem Solving From Nature VIII, Birmingham, U.K., September 2004.

34. **An Evolutionary Algorithm for Column Generation in Integer Programming: an Effective Approach for 2D Bin Packing**,
Int. Conference on Parallel Problem Solving From Nature VIII, Birmingham, U.K., September 2004.

35. **An Evolutionary Algorithm for the Maximum Weight Trace Formulation of the Multiple Sequence Alignment Problem**,
Int. Conference on Parallel Problem Solving From Nature VIII, Birmingham, U.K., September 2004.

36. **Combining Metaheuristics and Exact Algorithms in Combinatorial Optimization: A Survey and Classification**,
First Int. Work-Conference on the Interplay Between Natural and Artificial Computation, Canary Islands, Spain, June 2005.

37. **Algorithms for Solving Glass Cutting Problems**,
Invited talk at the University of La Laguna, Tenerife, Spain, June 2005.

38. **Kombination exakter und heuristischer Verfahren zur Lösung von zweidimensionalen Verschnittproblemen**,
Invited talk at the Fraunhofer Institut für Produktionsanlagen und Konstruktionstechnik, Berlin, Germany, November 3, 2005.

39. **Evolutionäre Algorithmen und hybride Ansätze für die kombinatorische Optimierung**,
Invited talk at the Institute of Management, University of Vienna, Vienna, Austria, December 12, 2005.

40. **Combining Variable Neighborhood Search with Integer Linear Programming for the Generalized Minimum Spanning Tree Problem**,
Invited talk at the Int. Symposium an Mathematical Programming, Rio de Janeiro, August 2006.

41. **Large Neighborhoods in Variable Neighborhood Search Approaches for Generalized Network Design Problems**,
Invited talk at Matheuristics 2006: First Workshop on Mathematical Contributions to Metaheuristics, Bertinoro, Italy, August 2006.

42. **Metaheuristics for Solving a Scheduling Problem in Car Manufacturing**,
Plenary talk at the fifth Int. Conference on Applied Mathematics, Baia Mare, Rumania, September 2006.

43. **A Unified View on Hybrid Metaheuristics**,
Keynote talk at the 3rd Workshop on Hybrid Metaheuristics, Las Palmas, Spain, October 13, 2006.

44. **Variable Neighborhood Search for the Generalized Minimum Edge Biconnected Network Problem**, Int. Network Optimization Conference – INOC 2007, Spa, Belgium, April 24, 2007.

45. **Fingerprint Template Compression by Solving a Minimum Label k-Node Subtree Problem**, Int. Conference on Numerical Analysis and Applied Mathematics, Corfu, Greece, September 20, 2007.

46. **A Lagrangian Relax-and-Cut Approach for the Bounded Diameter Minimum Spanning Tree Problem**, Int. Conference on Numerical Analysis and Applied Mathematics, Kos, Greece, September 19, 2008.

47. **Cooperative Hybrids for Combinatorial Optimization**, invited plenary talk at the Int. Workshop on Nature Inspired Cooperative Strategies for Optimization, Puerto de La Cruz, Tenerife, Spain, November 13, 2008.

48. **Combining Metaheuristics with Mathematical Programming Techniques for Solving Difficult Network Design Problems**, invited plenary talk at the First Int. Workshop on Information Network Design, Kitakyushu City, Fukuoka, Japan, December 5, 2008.

49. **Combining Metaheuristics with Mathematical Programming Techniques for Solving Difficult Network Design Problems**, invited talk at the University of Nottingham, School of Computer Science, Nottingham, U.K., April 22, 2009.

50. **Kombinationen von Metaheuristiken und Methoden der mathematischen Programmierung zur Lösung schwieriger Netzwerkdesign-Probleme**, invited talk at the Upper Austrian University of Applied Sciences, Department of Software Engineering, Hagenberg, Austria, May 6, 2009.

51. **Innovative Lösungen für Routenplanung, Packungsprobleme und Lagerlogistik**, invited talk at Aktuelles Know-How der TU Wien für Logistik und Distribution, an event organized by the Vienna University of Technology, Ausseninstitut-Technologietransfer, Vienna, Austria, October 21, 2009

52. **Combining Metaheuristics with Mathematical Programming Techniques for Solving Difficult Network Design Problems**, invited key-note talk at the Annual Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, Znojmo, Czechia, November 13, 2009.

53. **Enhancing Genetic Algorithms by a Trie-Based Complete Solution Archive**, Conference on Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2010, Istanbul, Turkey, April 9, 2010.

54. **A Decade of Evolutionary Computation in Combinatorial Optimization**, together with Jens Gottlieb, invited plenary talk at the Conference on Evolutionary Computation in Combinatorial Optimisation – EvoCOP 2010, Istanbul, Turkey, April 9, 2010.

55. **Solving the Capacitated Connected Facility Location Problem by Branch-and-Cut-and Price**, ALIO-INFORMS Joint International Meeting, Buenos Aires, Argentina, June 8, 2010.

56. **Solving a Video-Server Load Re-Balancing Problem by Mixed Integer Programming and Hybrid Variable Neighborhood Search**, Matheuristics 2010: Third International Workshop on Model Based Metaheuristics, Vienna, Austria, June 29, 2010.

57. **Hybrid Optimization Approaches**, Tutorial at the 11th Int. Conference on Parallel Problem Solving from Nature, Krakow, Poland, September 12, 2010.

58. **Balancing Bicycle Sharing Systems by Variable Neighborhood Search**,
2nd Mini EURO Conference on Variable Neighborhood Search – MEC-VNS 2012, Herceg Novi, Montenegro, October 3, 2012.

59. **Hybrid Metaheuristics and Matheuristics**,
Tutorial at the Int. Conference on Metaheuristics and Nature Inspired Computing – META'12, Port El-Kantaoui, Tunisia, October 27, 2012.

60. **Optimization Approaches for Balancing Bicycle Sharing Systems**,
invited talk at the Department of Business Administration, Production and Operations Management Group, University of Vienna, Vienna, Austria, March 8, 2013.

61. **GRASP and Variable Neighborhood Search for the Virtual Network Mapping Problem**,
Hybrid Metaheuristics, 8th Int. Workshop, HM 2013, Ischia, Italy, May 23, 2013.

62. **Optimization Algorithms for Integrated Timetable Based Design of Railway Infrastructure**,
together with Andreas Schöbel, ÖBB Infrastruktur AG, Vienna, Austria, June 10, 2013.

63. **Metaheuristics for the Static Balancing of Bicycle Sharing Systems**,
26th European Conference on Operational Research, EURO/INFORMS Joined Int. Meeting, Rome, Italy, July 3, 2013.

64. **Metaheuristics and Hybrid Optimization Approaches – A Unifying View**,
invited tutorial at the 26th European Conference on Operational Research, EURO/INFORMS Joined Int. Meeting, Rome, Italy, July 3, 2013.

65. **Clique and Independent Set Based GRASP Approaches for the Regenerator Location Problem**,
10th Metaheuristics Int. Conference – MIC 2013, Singapore, August 7, 2013.

66. **Speeding up Logic-Based Benders' Decomposition by a Metaheuristic for a Bi-Level Capacitated Vehicle Routing Problem**
Hybrid Metaheuristics, 9th Int. Workshop, HM 2014, Hamburg, Germany, June 10, 2014.

67. **Boosting an Exact Logic-Based Benders Decomposition Approach by Variable Neighborhood Search**
3rd Int. Conference on Variable Neighborhood Search, VNS 2014, Djerba, Tunisia, October 9, 2014.

68. **Variable Neighborhood Search Hybrids**
invited keynote talk at the 3rd Int. Conference on Variable Neighborhood Search, VNS 2014, Djerba, Tunisia, October 9, 2014.

69. **Heuristic Approaches for the Probabilistic Traveling Salesman Problem**
15th International Conference on Computer Aided Systems Theory (EUROCAST 2015), Las Palmas, Spain, February 10, 2015.

70. **Time-Bucket Relaxation Based Mixed Integer Programming Models for Scheduling Problems: A Promising Starting Point for Matheuristics**,
Matheuristics 2016 – 6th Int. Workshop on Model-Based Metaheuristics, Brussels, Belgium, September 6, 2016.

71. **Algorithms for Vehicle Routing**,
invited talk at the Workshop on Advances and Improvements in Service Delivery to Regional Development: Cases of Transportation and Health, University of La Laguna, La Laguna, Spain, July 14, 2016.

72. **An Iterative Time-Bucket Refinement Algorithm for a Resource-Constrained Project Scheduling Problem**,
invited talk at TU Graz, Institute for Discrete Mathematics, March 21, 2017.

73. **Mixed Integer Programming Approaches for Resource-Constrained Project Scheduling**,
invited talk at University of Vienna, Department of Statistics and Operations Research, June 7, 2017.

74. **Hybrid Metaheuristics for Optimization Problems in Public Bike Sharing Systems**,
invited talk at Honda Research Institute Europe, Offenbach, Germany, September 15, 2017.

75. **Hybrid Optimization Approaches for Challenges in Public Bike Sharing Systems**,
invited talk at the Department of Mathematics, Linköping University, Linköping, Sweden, April 5, 2018.

76. **An A*-Based Algorithm to Derive Relaxed Decision Diagrams for a Prize-Collecting Sequencing Problem**,
poster presentation at the 16th Int. Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR 2018), Delft, The Netherlands, June 27, 2018.

77. **Pushing the Limits with Hybrid Metaheuristics**,
invited talk at the Metaheuristics Summer School (MESS 2018), Acireale-Sicily, Italy, July 23, 2018.

78. **Large Neighborhood Search Techniques**,
invited talk at the Metaheuristics Summer School (MESS 2018), Acireale-Sicily, Italy, July 25, 2018.

79. **A*-Based Construction of Relaxed Decision Diagrams for a Prize-Collecting Scheduling Problem**,
invited talk at the Symposium on Decision Diagrams for Optimization (DDOPT 2018), Pittsburgh, PA, October 20, 2018.

80. **Intelligente Planung von Mobilitätsinfrastruktur**,
invited talk at the Horizonte talk series, Austrian Computer Society (OCG), Vienna, Austria, November 11, 2018.

81. **Decision Diagrams and Metaheuristics**,
invited keynote talk at the 11th Int. Workshop on Hybrid Metaheuristics (HM 2019), Concepciòn, Chile, January 18, 2019.

82. **Decision Diagrams in Combinatorial Optimization**,
invited talk at Johannes Kepler University Linz, Institute of Production and Logistics Management, Austria, October 1, 2019.

83. **Recent Trends in Metaheuristics**,
invited talk at the 17th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR-20), Austria, September 21, 2020.