

DAFTAR PUSTAKA

- Alarie, S., Audet, C., Gheribi, A.E., Kokkolaras, M., dan Le Digabel, S., 2021, Two Decades of Blackbox Optimization Applications, *EURO Journal on Computational Optimization*, Volume 9, hal. 100011.
- Anton, H., dan Rorres, C., 2013, *Elementary Linear Algebra: Applications Version*, John Wiley & Sons.
- Bartholomew-Biggs, M.C., Parkhurst, S.C., dan Wilson, S.P., 2002, Using DIRECT to Solve an Aircraft Routing Problem, *Computational Optimization and Applications*, Volume 21, hal. 311-323.
- Bartle, R.G dan Sherbert, D.R, 2011, *Introduction to Real Analysis*, Volume 4, John Wiley & Sons, Inc.
- Barvinok, A., 2025, *A Course in Convexity*, Volume 54, American Mathematical Society.
- Bazaraa, M. S., Sherali, H. D., dan Shetty, C. M, 2006, *Nonlinear Programming: Theory and Algorithms*, John Wiley & Sons, Inc.
- Belkacem, N., Chiter, L., dan Louaked, M., 2024, A Novel Approach to Enhance DIRECT-Type Algorithms for Hyper-Rectangle Identification, *Mathematics*, Volume 12, hal.283.
- Chiter, L., dan Belkacem, N., 2021, BIRECT-1-a, Mendeley Data, V1, doi: 10.17632/t6vv9yknbc.1

- Cox, S.E, Haftka, R.T., Baker, C.A., Grossman, B., Mason, W.H., dan Watson, L.T., 2001, A Comparison of Global Optimization Methods for the Design of a High-speed Civil Transport, *Journal of Global Optimization*, Volume 21, hal. 415-432.
- Finkel, D.E, 2005, Global Optimization with the DIRECT Algorithm, *Dissertation*, North Carolina State University.
- Finkel, D.E. dan Kelley, C.T., 2004, An Adaptive Restart Implementation of DIRECT, *Technical Report*, Center for Research in Scientific Computation, North Carolina State University.
- Finkel, D.E. dan Kelley, C.T., 2006, Additive Scaling and the DIRECT Algorithm, *Journal of Global Optimization*, Volume 36, hal. 597-608.
- Gablonsky, J.M., 2001, Modifications of the DIRECT Algorithm, *Dissertation*, North Carolina State University.
- Gablonsky, J. M., dan Kelley, C. T., 2001, A Locally-Biased Form of the DIRECT Algorithm, *Journal of Global Optimization*, Volume 21, hal. 27–37.
- Ge, R., 1990, A Filled Function Method for Finding a Global Minimizer of a Function of Several Variables, *Mathematical Programming*, Volume 46, hal. 191–204.
- Gimbutas, A. dan Žilinskas, A., 2018, An Algorithm of Simplicial Lipschitz Optimization with the Bi-criteria Selection of Simplices

for the Bi-section. *Journal of Global Optimization*, Volume 71 hal. 115-127.

Goldberg, N., Kolda, T. G., dan Yoshimura, A. S., 2008, Concurrent Optimization with DUET: DIRECT Using External Trial Points. *SANDIA report*, Downloadable at: csmr.ca.sandia.gov/~tgkolda/pubs/bibtgkfiles/SAND2008-5844.pdf.

Guessoum, N., dan Chiter, L., 2023, Diagonal Partitioning Strategy Using Bisection of Rectangles and a Novel Sampling Scheme, *MENDEL*, Volume 29, hal.131-146.

Hansen, P. dan Jaumard, B., 1995, *Lipschitz Optimization*, Springer

Hedar, A., 2005, *Test Functions for Unconstrained Global Optimization*, http://www-optima.amp.i.kyoto-u.ac.jp/member/student/hedar/Hedar_files/TestGO.htm, diakses 23 Juli 2023.

Jamil, M. dan Yang, X.S., 2013, A literature survey of benchmark functions for global optimization problems, *Int. Journal of Mathematical Modelling and Numerical Optimisation*, Volume 4, hal. 150–194.

Jia, K., Duan, X., Wang, Z., Yi, T., Yan, L., dan Chen, X., 2024, A New Partition Method for DIRECT-type Algorithm Based on Mini-

- max Design, *Journal of Global Optimization*, Volume 88, hal. 171-197.
- Jones, D.R., Perttunen, C.D., dan Stuckman, B.E., 1993, Lipschitzian Optimization without the Lipschitz Constant, *Journal of Optimization Theory and Applications*, Volume 79, hal. 157-181.
- Jones, D.R. dan Martins, J.R., 2021, The DIRECT Algorithm: 25 Years Later, *Journal of Global Optimization*, Volume 79, hal. 521-566.
- Jones, D.R., 2001, Direct Global Optimization Algorithm, *Encyclopedia of Optimization*, hal. 431-440.
- Kreyszig, E., 1991, *Introductory Functional Analysis with Applications*, Volume 17, John Wiley & Sons.
- Liu, Q., 2013, Linear Scaling and the DIRECT Algorithm, *Journal of Global Optimization*, Volume 56, hal. 1233-1245.
- Liu, Q., Yang, G., Zhang, Z., dan Zeng, J., 2017, Improving the Convergence Rate of the DIRECT Global Optimization Algorithm, *Journal of Global Optimization*, Volume 67, hal. 851-872.
- Liu, Q., Chen, W., Deng, J.D., Gu, T., Zhang, H., Yu, Z., dan Zhang, J., 2017, Benchmarking Stochastic Algorithms for Global Optimization Problems by Visualizing Confidence Intervals, *IEEE Transactions on Cybernetics*, Volume 47, hal. 2924-2937.
- Liu, Q. dan Cheng, W., 2014, A Modified DIRECT Algorithm with

Bilevel Partition, *Journal of Global Optimization*, Volume 60, hal. 483-499.

Liu, Q., Zeng, J., dan Yang, G., 2015, MrDIRECT: A Multilevel Robust DIRECT Algorithm for Global Optimization Problems, *Journal of Global Optimization*, Volume 62, hal. 205-227.

Liuzzi, G., Lucidi, S., dan Piccialli, V., 2010, A DIRECT-based Approach Exploiting Local Minimizations for the Solution of Large-scale Global Optimization Problems, *Computational Optimization and Application*, Volume 45, hal. 353-375.

Liuzzi, G., Lucidi, S., dan Piccialli, V., 2016, Exploiting Derivative-free Local Searches in DIRECT-type Algorithms for Global Optimization, *Computational Optimization and Applications*, Volume 65, hal. 449-475

Ljungberg, K., Holmgren, S., dan Carlborg, O., 2004, Simultaneous Search for Multiple QTL using the Global Optimization Algorithm DIRECT, *Bioinformatics*, Volume 20, hal. 1887-1895.

Lucidi, S. dan Sciandrone, M., 2002, A Derivative-free Algorithm for Bound Constrained Optimization, *Computational Optimization and Applications*, Volume 21, hal. 119-142.

Lucidi, S. dan Sciandrone, M., 2002, On the Global Convergence of Derivative-free Methods for Unconstrained Optimization, *SIAM Journal on Optimization*, Volume 13, hal. 97-116.

- Luenberger, D. G., dan Ye, Y., 2008, *Linear and Nonlinear Programming Third Edition*, Springer Science & Business Media.
- Michalewicz, Z., 2013, *Genetic Algorithms + Data Structures = Evolution Programs*, Springer Science & Business Media.
- Miettinen, K., 1999, *Nonlinear Multiobjective Optimization*, Volume 12, Springer Science & Business Media.
- Mockus, J., 2011, On the Pareto Optimality in the Context of Lipschitzian Optimization, *Informatica*, Volume 22, hal. 521-536.
- Mockus, J. dan Paulavičius, R., 2013, On the Reduced-set Pareto-Lipschitzian Optimization, *Computational Science and Techniques*, Volume 1, hal. 184-192.
- Mockus, J., Paulavičius, R., Rusakevičius, D., Šešok, D., dan Žilinskas, J., 2017, Application of Reduced-set Pareto-Lipschitzian Optimization to Truss Optimization, *Journal of Global Optimization*, Volume 67, hal. 425-450.
- Mustika, M., Salmah, Indarsih, 2024, A New DIRECT-Type Algorithm Based on Bisection of Rectangles and Diagonal Sampling with the Pareto Approach, *IAENG International Journal of Applied Mathematics*, Volume 54, hal. 1352-1361.
- Parthasarathy, K., 2022, *Compact Spaces*, In *Topology: An Invitation*, hal. 59-77, Singapore: Springer Nature Singapore.

- Paulavičius, R. dan Žilinskas, J., 2014, *Simplicial Lipschitz Optimization without Lipschitz Constant*, dalam: *Simplicial Global Optimization*, Springer, New York.
- Paulavičius, R., Chiter, L., dan Žilinskas, J., 2018, Global Optimization Based on Bisection of Rectangles, Function Values at Diagonals, and a Set of Lipschitz Constants, *Journal of Global Optimization*, Volume 71, hal. 5-20.
- Paulavičius, R., Sergeyev, Y.D., Kvasov, D.E. dan Žilinskas, J., 2014, Globally-biased DISIMPL Algorithm for Expensive Global Optimization, *Journal of Global Optimization*, Volume 59, hal. 545-567.
- Paulavičius, R., Sergeyev, Y.D., Kvasov, D.E., dan Žilinskas, J., 2020, Globally-biased BIRECT Algorithm with Local Accelerators for Expensive Global Optimization, *Expert Systems with Applications*, Volume 144, hal. 113052.
- Pérez, E., Posada, M., dan Lorenzana, A., 2016, Taking Advantage of Solving the Resource Constrained Multi-project Scheduling Problems using Multi-modal Genetic Algorithms, *Soft Computing*, Volume 20, hal. 1879–1896.
- Piyavskii, S.A., 1972, An Algorithm for Finding the Absolute Extremum of a Function, *USSR Computational Mathematics and Mathematical Physics*, Volume 12, hal. 57-67.
- Rios, L.M. dan Sahinidis, N.V., 2013, *Derivative-free Optimization*:

A Review of Algorithms and Comparison of Software Implementations, *Journal of Global Optimization*, Volume 56, hal. 1247-1293.

Romero, C. dan Rehman, T., 2003, *Multiple Criteria Analysis for Agricultural Decisions*, Elsevier.

Royden, H.L dan Fitzpatrick, P.M., 2010, *Real Analysis*, China Machine Press.

Sasena, M., Papalambros, P., dan Goovaerts, P., 2002, Global Optimization of Problems with Disconnected Feasible Regions via Surrogate Modeling, *9th AIAA/ISSMO Symposium on Multidisciplinary Analysis and Optimization*, hal. 5573.

Sergeyev, Y.D. dan Kvasov, D.E., 2006, Global Search Based on Efficient Diagonal Partitions and a Set of Lipschitz Constants, *SIAM Journal on Optimization*, Volume 16, hal. 910-937.

Svensson, B., Danielsson, F., dan Lennartson, B., 2013, An Efficient Algorithm for Press Line Optimisation, *The International Journal of Advanced Manufacturing Technology*, Volume 68, hal. 1627-1638.

Shubert, B.O., 1972, A Sequential Method Seeking the Global Maximum of a Function, *SIAM Journal on Numerical Analysis*, Volume 9, hal. 379-388.

Stripinis, L., Paulavičius, R., dan Žilinskas, J., 2018, Improved Sche-

me for Selection of Potentially Optimal Hyper-rectangles in DIRECT, *Optimization Letter*, Volume 12, hal. 1699-1712.

Stripinis, L. dan Paulavičius, R., 2022, Experimental Study of Excessive Local Refinement Reduction Techniques for Global Optimization Direct-type Algorithms. *Mathematics*, Volume 10, hal.3760.

Stripinis, L. dan Paulavičius, R., 2023, *Derivative-free DIRECT-type Global Optimization*, Springer.

Stripinis, L. dan Paulavičius, R., 2024, Lipschitz-inspired HALRECT Algorithm for Derivative-free Global Optimization, *Journal of Global Optimization*, Volume 88, hal. 139-169.

Surjanovic, S. dan Bingham, D., 2013, Virtual Library of Simulation Experiments: Test Function and Dataset, <https://www.sfu.ca/~ssurjano/trid.html>, diakses 30 Juni 2025.

Tao, Q., Huang, X., Wang, S., dan Li, L., (2017, Adaptive Block Coordinate DIRECT Algorithm, *Journal of Global Optimization*, Volume 69, hal. 797-822.

Tavassoli, A., Haji H, K., Sadeqi, S., Wang, G. G., dan Kjeang, E., 2014, Modification of DIRECT for High-dimensional Design Problems. *Engineering Optimization*, Volume 46, hal. 810-823.

Zelany, M., 1974, A Concept of Compromise Solutions and the Method of the Displaced Ideal, *Computers & Operations Research*, Volume 1, hal. 479-496.

Zhang, Y., Zhang, L., dan Xu, Y., 2009, New Filled Functions for Nonsmooth Global Optimization, *Applied Mathematical Modelling*, Volume 33, hal. 3114–3129.

Žilinskas, J., 2008, Branch and Bound with Simplicial Partitions for Global Optimization, *Mathematical Modelling and Analysis*, Volume 13, hal. 145-159.