

REFERENCES

- Akaike, H., 1973. Information theory and an extension of the maximum likelihood principle. In: 2nd Int. Symp. Inf. Theory, ISIT. Tsahkadsor, Armenian SSR, pp. 267–281.
- Albert, R., Barabási, A.-L., 2002. Statistical mechanics of complex networks. *Rev. Modern Phys.* 74 (1), 47–97.
- Barabási, A.-L., Albert, R., 1999. Emergence of scaling in random networks. *Science* 286 (5439), 509–512.
- Barron, A. R., Rissanen, J. J., Yu, B., 1998. The minimum description length principle in coding and modeling. *IEEE Trans. Inform. Theory* 44 (6), 2743–2760.
- Bartz-Beielstein, T., Lasarczyk, C. W. G., Preuss, M., 2005. Sequential parameter optimization. In: IEEE Congr. Evol. Comput., CEC'05. IEEE, Edinburgh, UK, pp. 773–780.
- Beer, G., 1980. The Cobb-Douglas Production Function. *Math. Mag.* 53 (1), 44–48.
- Bergstrom, T. C., 2002. Evolution of Social Behavior: Individual and Group Selection. *J. Econ. Perspect.* 16 (2), 67–88.
- Binmore, K., 1994. Game Theory and the Social Contract. Vol.1 - Playing Fair, and Vol.2 - Just Playing. MIT Press, Cambridge, MA.
- Birattari, M., 2004. The problem of tuning metaheuristics as seen from a machine learning perspective. Ph.D. thesis, Université Libre de Bruxelles.
- Box, G. E. P., Wilson, K. B., 1951. On the experimental attainment of optimum conditions. *J. R. Stat. Soc. B* 13 (1), 1–45.
- Boyd, R., Richerson, P. J., 1985. Culter and the Evolutionary Process. University of Chicago Press, Chicago.
- Camerer, C. F., Loewenstein, G., Rabin, M. (Eds.), 2003. Advances in Behavioral Economics. Princeton University Press, Princeton, NJ.
- Challet, D., Marsili, M., Zhang, Y.-C., 2005. Minority Games: Interacting Agents in Financial Markets. Oxford University Press, Oxford.
- Czarn, A., MacNish, C., Vijayan, K., Turlach, B., Gupta, R., 2004. Statistical Exploratory Analysis of Genetic Algorithms. *IEEE Trans. Evol. Comput.* 8 (4), 405–421.

- de Landgraaf, W. A., Eiben, A. E., Nannen, V., 2007. Parameter calibration using meta-algorithms. In: IEEE Congr. Evol. Comput., CEC'07. IEEE, Singapore, pp. 71–78.
- Dopfer, K. (Ed.), 2005. The Evolutionary Foundation of Economics. Cambridge University Press, Cambridge, England.
- Dorogovtsev, S. N., Mendes, J. F. F., 2002. Evolution of networks. *Adv. Phys.* 51 (4), 1079–1187.
- Eiben, A. E., Hinterding, R., Michalewicz, Z., 1999. Parameter control in evolutionary algorithms. *IEEE Trans. Evol. Comput.* 3 (2), 124–141.
- Eiben, A. E., Michalewicz, Z., Schoenauer, M., Smith, J. E., 2007. Parameter control in evolutionary algorithms. In: Lobo, F. G., Lima, C. F., Michalewicz, Z. (Eds.), Parameter Setting in Evolutionary Algorithms. Studies in Computational Intelligence. Springer, Berlin / Heidelberg, pp. 19–46.
- Eiben, A. E., Schut, M. C., de Wilde, A. R., 2006. Is self-adaptation of selection pressure and population size possible?—A case study. In: Parallel Probl. Solving Nat., PPSN IX. Springer, Reykjavik, Iceland, pp. 900–909.
- Eiben, A. E., Smith, J. E., 2003. Introduction to Evolutionary Computing. Springer, Berlin / Heidelberg.
- Epstein, J. M., Axtell, R., 1996. Growing Artificial Societies: Social Science from the Bottom Up. MIT Press, Cambridge, MA.
- Erdős, P., Rényi, A., 1959. On random graphs I. *Publ. Math. Debrecen* 6, 290–297.
- Ferrer-i Carbonell, A., 2005. Income and well-being: an empirical analysis of the comparison income effect. *J. Public Econ.* 89 (5-6), 997–1019.
- François, O., Lavergne, C., 2001. Design of evolutionary algorithms—a statistical perspective. *IEEE Trans. Evol. Comput.* 5 (2), 129–148.
- Frank, R. H., 1987. Choosing the Right Pond: Human Behavior and the Quest for Status. Oxford University Press, Oxford.
- Freisleben, B., Hartfelder, M., 1993. Optimization of genetic algorithms by genetic algorithms. In: Albrecht, R. F., Reeves, C. R., Steele, N. C. (Eds.), Artificial Neural Networks and Genetic Algorithms. Springer, Berlin / Heidelberg, pp. 392–399.
- Friedman, D., 1998. On economic applications of evolutionary game theory. *J. Evol. Econ.* 8 (1), 15–43.
- Gallagher, M., Yuan, B., 2006. A general-purpose tunable landscape generator. *IEEE Trans. Evol. Comput.* 10 (5), 590–603.
- Galor, O., Moav, O., 2002. Natural selection and the origin of economic growth. *Q. J. Econ.* 117 (4), 1133–1191.

- Goldberg, D. E., 1989. Genetic Algorithms in Search, Optimization and Machine Learning. Addison-Wesley Longman Publishing Co., Inc., Boston, MA, USA.
- Grefenstette, J. J., 1986. Optimization of control parameters for genetic algorithms. *IEEE Trans. Syst. Man and Cybernet* 16 (1), 122–128.
- Grünwald, P. D., 2007. The Minimum Description Length Principle. MIT press, Cambridge, MA.
- Henrich, J., 2004. Cultural group selection, coevolutionary processes and large-scale cooperation. *J. Econ. Behav. Organ.* 53 (1), 3–35.
- Hofbauer, J., Sigmund, K., 2003. Evolutionary game dynamics. *Bull. Amer. Math. Soc.* 40 (4), 479.
- Janssen, M. A., Andries, J. M., Walker, B. H., 2004. Robust strategies for managing range-lands with multiple stable attractors. *J. Environ. Econ. Manag.* 47 (1), 140–162.
- Janssen, M. A., Ostrom, E., 2006. Governing social-ecological systems. In: Tesfatsion, L., Judd, K. L. (Eds.), *Handbook of Computational Economics*. Elsevier, pp. 1465–1509.
- Jong, K. A. D., 1975. An analysis of the behaviour of a class of genetic adaptive systems. Ph.D. thesis, University of Michigan.
- Jong, K. A. D., 2006. *Evolutionary Computation: A Unified Approach*. MIT Press, Cambridge, MA.
- Juglar, C., 1863. *Crises Commerciales*. Imprimerie de Veuve Berger-Levrault, Strasbourg.
- Kahneman, D., Slovic, P., Tversky, A., 1982. Judgment under Uncertainty: Heuristics and Biases. Cambridge University Press, Cambridge, England.
- Kelly, D. L., Kolstad, C. D., 1999. Integrated assessment models for climate change control. In: Folmer, H., Tietenberg, T. (Eds.), *International yearbook of environmental and resource economics 1999/2000: A survey of current issues*. Edward Elgar Cheltenham,, UK, pp. 171–197.
- Kirman, A. P., 1992. Whom or what does the representative individual represent? *J. Econ. Perspect.* 6 (2), 117–136.
- Kondratiev, N. D., 1935. The Long Waves in Economic Life. *Rev. Econ. Stat.* 17 (6), 105–115.
- Lehtinen, A., Kuorikoski, J., 2007. Computing the Perfect Model: Why Do Economists Shun Simulation?*. *Philos. Sci.* 74 (3), 304–329.
- Levy, H., Levy, M., Solomon, S., 2000. *Microscopic Simulation of Financial Markets: From Investor Behavior to Phenomena*. Academic Press, New York.
- Lieberman, E., Hauert, C., Nowak, M. A., 2005. Evolutionary dynamics on graphs. *Nature* 433 (7023), 312–316.

- Lobo, F. G., Lima, C. F., 2006. On the Utility of the Multimodal Problem Generator for Assessing the Performance of Evolutionary Algorithms. In: Proc. Genet. Evol. Comput. Conf., GECCO'06. ACM, Seattle, Washington, pp. 1233–1240.
- Lobo, F. G., Lima, C. F., Michalewicz, Z. (Eds.), 2007. Parameter Setting in Evolutionary Algorithms. Studies in Computational Intelligence. Springer, Berlin / Heidelberg.
- Louzoun, Y., Shnerb, N. M., Solomon, S., 2007. Microscopic noise, adaptation and survival in hostile environments. *Eur. Phys. J. B* 56 (2), 141–148.
- Luke, S., 2007. The ECJ Evolutionary Computation System. Tech. rep., Department of Computer Science George Mason University.
- Manne, A. S., 1992. Buying Greenhouse Insurance: The Economic Costs of CO₂ Emission Limits. MIT Press, Cambridge, MA.
- Milgram, S., 1967. The small world problem. *Psychol. Today* 2 (1), 60–67.
- Mirowski, P., 2007. Markets come to bits: Evolution, computation and markomata in economic science. *J. Econ. Behav. Organ.* 63 (2), 209–242.
- Mühlenbein, H., 1997. The equation for response to selection and its use for prediction. *Evol. Comput.* 5 (3), 303–346.
- Mühlenbein, H., Höns, R., 2005. The estimation of distributions and the minimum relative entropy principle. *Evol. Comput.* 13 (1), 1–27.
- Munro, A., 1997. Economics and biological evolution. *Environ. Resour. Econ.* 9 (4), 429–449.
- Nannen, V., Eiben, A. E., 2006. A method for parameter calibration and relevance estimation in evolutionary algorithms. In: Proc. Genet. Evol. Comput. Conf., GECCO'06. ACM, Seattle, Washington, pp. 183–190.
- Nannen, V., Eiben, A. E., 2007a. Efficient relevance estimation and value calibration of evolutionary algorithm parameters. In: IEEE Congr. Evol. Comput., CEC'07. IEEE, Singapore, pp. 103–110.
- Nannen, V., Eiben, A. E., 2007b. Relevance Estimation and Value Calibration of Evolutionary Algorithm Parameters. In: Proc. Int. Jt. Conf. Artif. Int., IJCA'07. AAAI Press, Hyderabad, India, pp. 975–980.
- Nannen, V., Smit, S. K., Eiben, A. E., 2008. Costs and Benefits of Tuning Parameters of Evolutionary Algorithms. In: Parallel Probl. Solving Nat., PPSN X. Springer, Dortmund, Germany, pp. 528–538.
- Nannen, V., van den Bergh, J. C. J. M., 2010. Policy instruments for evolution of bounded rationality: Application to climate–energy problems. *Technol. Forecast. Soc. Change* 77 (1), 76–93.

- Nannen, V., van den Bergh, J. C. J. M., Eiben, A. E., 2013. Impact of environmental dynamics on economic evolution: A stylized agent-based policy analysis. *Technol. Forecast. Soc. Change* 80 (2), 329–350.
- Nelson, R. R., Winter, S. G., 1982. *An Evolutionary Theory of Economic Change*. Harvard University Press, Cambridge, MA.
- Noailly, J., 2008. Coevolution of economic and ecological systems. *J. Evol. Econ.* 18 (1), 1–29.
- Noailly, J., van den Bergh, J. C. J. M., Withagen, C. A., 2003. Evolution of harvesting strategies: replicator and resource dynamics. *J. Evol. Econ.* 13 (2), 183–200.
- Nordhaus, W. D., 1991. To Slow or Not to Slow—The Economics of the Greenhouse Effect. *Econ. J.* 101 (407), 920–937.
- Nordhaus, W. D., 1992. An optimal transition path for controlling greenhouse gases. *Science* 258 (5086), 1315–1315.
- Nordhaus, W. D., 1994. *Managing the global commons: The economics of the greenhouse effect*. MIT Press, Cambridge, MA.
- Nordhaus, W. D., 2002. Modeling Induced Innovation in Climate Change Policy. In: Grubler, A., Nakićenović, N., Nordhaus, W. D. (Eds.), *Modeling Induced Innovation in Climate Change Policy*. Resources for the Future Press, pp. 259–290.
- Nordhaus, W. D., Yang, Z., 1996. A Regional Dynamic General-Equilibrium Model of Alternative Climate-Change Strategies. *Amer. Econ. Rev.* 86 (4), 741–765.
- Nowak, M. A., 2006. *Evolutionary Dynamics: Exploring the Equations of Life*. Harvard University Press, Cambridge, MA.
- Oliver, I. M., Smith, D. J., Holland, J. R. C., 1987. A study of permutation crossover operators on the traveling salesman problem. In: Proc. 2nd Int. Conf. Genet. Algorithms Genet. algorithms appl. Cambridge, Ma, pp. 224–230.
- Ostrom, E., 2000. Collective Action and the Evolution of Social Norms. *J. Econ. Perspect.* 14 (3), 137–158.
- Peck, S. C., Teisberg, T. J., 1993. Optimal CO₂ Emissions Control with Partial and Full World-wide Cooperation: An Analysis Using CETA. Electric Power Research Institute, Palo Alto, Calif.
- Popp, D., 2004. ENTICE: endogenous technological change in the DICE model of global warming. *J. Environ. Econ. Manag.* 48 (1), 742–768.
- Rissanen, J. J., 1978. Modeling by shortest data description. *Automatica* 14 (5), 465–471.
- Rudolph, G., 1992. On correlated mutations in evolution strategies. In: Parallel Probl. Solving Nat., PPSN II. Springer, Brussels, Belgium, pp. 107–116.

- Samples, M. E., Daida, J. M., Byom, M., Pizzimenti, M., 2005. Parameter sweeps for exploring GP parameters. In: Proc. Genet. Evol. Comput. Conf., GECCO'05. ACM, Washington, DC, pp. 1791–1792.
- Schaffer, J., Caruana, R., Eshelman, L., Das, R., 1989. A study of control parameters affecting online performance of genetic algorithms for function optimization. In: Proceedings of the third international conference on genetic algorithms. Morgan Kaufmann Publishers Inc., San Francisco, CA, USA, pp. 51–60.
- Sethi, R., Somanathan, E., 1996. The Evolution of Social Norms in Common Property Resource Use. *Amer. Econ. Rev.* 86 (4), 766–788.
- Shannon, C. E., 1948. A mathematical theory of communication. *Bell Syst. Tech. J.* 27, 379–423–623–656.
- Shnerb, N. M., Louzoun, Y., Bettelheim, E., Solomon, S., 2000. The importance of being discrete: life always wins on the surface. *Proceedings of the National Academy of Sciences* 97 (19), 10322–10324.
- Spears, W. M., 2000. *Evolutionary Algorithms: The Role of Mutation and Recombination*. Springer, Berlin / Heidelberg.
- Stainforth, D. A., Aina, T., Christensen, C., Collins, M., Faull, N., Frame, D. J., Kettleborough, J. A., Knight, S., Martin, A., Murphy, J. M., 2005. Uncertainty in predictions of the climate response to rising levels of greenhouse gases. *Nature* 433 (7024), 403–406.
- Taguchi, G., Wu, Y., 1980. *Introduction to Off-Line Quality Control*. Central Japan Quality Control Association, Nagoya, Japan.
- Tesfatsion, L., 2006. Agent-based computational economics: A constructive approach to economic theory. In: Judd, K. L. (Ed.), *Handbook of Computational Economics*. Elsevier, pp. 831–880.
- Tol, R. S. J., 1995. The climate fund: Sensitivity, uncertainty, and robustness analysis. *Tech. Rep. W95/02*, Institute for Environmental Studies, Vrije Universiteit, Amsterdam.
- Tomasini, M., 2005. *Spatially Structured Evolutionary Algorithms*. Springer, Berlin / Heidelberg.
- van den Bergh, J. C. J. M., 2004a. Evolutionary modelling. In: Proops, J., Safonov, P. (Eds.), *Modelling in Ecological Economics*. Edward Elgar Publishing, Cheltenham, pp. 9–35.
- van den Bergh, J. C. J. M., 2004b. Optimal climate policy is a utopia: from quantitative to qualitative cost-benefit analysis. *Ecol. Econ.* 48 (4), 385–393.
- van den Bergh, J. C. J. M., 2007. Evolutionary thinking in environmental economics. *J. Evol. Econ.* 17 (5), 521–549.

- Vereshchagin, N. K., Vitányi, P. M. B., 2002. Kolmogorov's Structure Functions with an Application to the Foundations of Model Selection. In: 43rd Annu. IEEE Symp. Found. Comput. Sci., FOCS'02. IEEE, Vancouver, BC, pp. 751–760.
- Watts, D. J., Strogatz, S. H., 1998. Collective dynamics of 'small-world' networks. *Nature* 393 (6684), 440–442.
- Wegner, G., Pelikan, P., 2003. Introduction: evolutionary thinking on economic policy. In: Pelikan, P., Wegner, G. (Eds.), *The Evolutionary Analysis of Economic Policy (New Horizons in Institutional and Evolutionary Economics)*. Edward Elgar Publishing, Cheltenham, pp. 1–14.
- Wilhite, A., 2006. Economic Activity on Fixed Networks. In: Tesfatsion, L., Judd, K. L. (Eds.), *Handbook of Computational Economics*. Elsevier, pp. 1013–1045.
- Witt, U., 2008. What is specific about evolutionary economics? *J. Evol. Econ.* 18 (5), 547–575.