Список литературы

[asoh:muehlenbein:1994a] Hideki Asoh and Heinz Mühlenbein. On the mean convergence time of evolutionary algorithms without selection and mutation. In Yuval Davidor, Hans-Paul Schwefel, and Reinhard Männer, editors, *Parallel problem solving from nature: PPSN III*, pages 88–97, Berlin, 1994. Springer–Verlag. GMD Technical Report GMD-AS-TR-94-12.

URL `http://borneo.gmd.de/AS/ga/publi/gmd_as_ga-94_12.html`

[asoh:muehlenbein:1994b] H. Asoh and Heinz Mühlenbein. On the mean convergence time of genetic populations without selection. Technical Report 94–02–13, GMD, Schloss Birlinghoven, D-53754 Sankt Augustin, Germany, 1994.

URL `mailto:muehlen@gmd.de`

[dejong:1975] Kenneth A. De Jong. *An analysis of the behavior of a class of genetic adaptive systems*. PhD thesis, University of Michigan, Ann Arbor, 1995. Dissertation Abstracts International 36(10), 5140B; UMI 76-9381.

[goldberg:segrest:1987] David E. Goldberg and Phillip Segrest. Finite markov chain analysis of genetic algorithms. In John J. Grefenstette, editor, *Genetic algorithms and their applications: Proceedings of the second international conference on genetic algorithms*, pages 1–8, Hillsdale, NJ, USA, 1987. Lawrence Erlbaum.

[harvey:93] Inman Harvey. The puzzle of the persistent question marks: A case study of genetic drift. In Stephanie Forrest, editor, *Proceedings of the fifth international conference on genetic algorithms*, pages 15–22, San Mateo, CA, USA, 1993. Morgan Kaufmann.

URL `ftp://ftp.cogs.susx.ac.uk/pub/reports/csrp/csrp278.ps.Z`

[harvey:etal:1993a] I. Harvey, P. Husbands, and D. Cliff. Genetic convergence in a species of evolved robot control architectures. Cognitive Science Research Paper 278, University of Sussex, School of Cognitive and Computing Sciences, Falmer Brighton BN1 9QH, England, UK, January 1993. A poster version of this paper was published as [harvey:etal:1993b].

URL `ftp://ftp.cogs.susx.ac.uk/pub/reports/csrp/csrp278.ps.Z`

[harvey:etal:1993b] I. Harvey, P. Husbands, and D. T. Cliff. Genetic convergence in a species of evolved robot control architectures. In Stephanie Forrest, editor, *Proceedings of the fifth international conference on genetic algorithms*, page 636, San Mateo, CA, USA, 1993. Morgan Kaufmann. Poster version of [harvey:etal:1993a].

[kargupta:1992] Hillol Kargupta. Drift, diffusion and Boltzmann distribution in simple genetic algorithm. In *Proceedings of the workshop on physics and computation*, pages 137–145, Los Alamitos, CA, USA, 1992. IEEE Computer Society Press.

URL `ftp://ftp-illigal.ge.uiuc.edu/pub/papers/Publications/Kargupta/drift_diffusion_bolt`

[kubota:etal:1994] Naoyuki Kubota, Toshio Fukuda, Fumiho Arai, and Koji Shimojima. Genetic algorithm with age structure and its application to self-organizing manufacturing system. In *Proceedings of the 1994 IEEE Symposium on Emerging Technologies and Factory Automation*, pages 472–477, 1994.

[langdon:1995:ppp] William B. Langdon. Pareto, population partitioning, price and genetic programming. Research Note RN/95/29, University College London, Gower Street, London WC1E 6BT, UK, April 1995. Submitted to AAAI Fall 1995 Genetic Programming Symposium.

URL `ftp://cs.ucl.ac.uk/genetic/papers/WBL_aaai-pppGP.ps`

Abstract: A description of a use of Pareto optimality in genetic programming is given and an analogy with Genetic Algorithm fitness niches is drawn. Techniques to either spread the population across many pareto optimal fitness values or to reduce the spread are described. It is speculated that a wide spread may not aid Genetic Programming. It is suggested that this might give useful insight into many GPs whose fitness is composed of several sub-objectives. The successful use of demic populations in GP leads to speculation that smaller evolutionary steps might aid GP in the long run. An example is given where Price's covariance theorem helped when designing a GP fitness function.

[lin:etal:1994] Shyh-Chang Lin, William F. Punch, and Erik D. Goodman. Coarse-grain parallel genetic algorithms: Categorization and new approach. In *Proceeedings of the Sixth IEEE Symposium on Parallel and Distributed Processing*, pages 28–37, 1994.

URL `http://isl.cps.msu.edu/GA/papers/GARAGe94-1.ps`

[louis:rawlins:1993] Sushil J. Louis and Gregory J. E. Rawlins. Syntactic analysis of convergence in genetic algorithms. In L. Darrell Whitley, editor, *Foundations of genetic algorithms 2*, pages 141–151, San Mateo, CA, 1993. Morgan Kaufmann.

[mahfoud:1994] Samir Mahfoud. Genetic drift in sharing methods. In *Proceedings of the first IEEE conference on evolutionary computation*, pages 67–72, 1994.

URL `ftp://ftp-illigal.ge.uiuc.edu/pub/papers/Publications/Mahfoud/share.ps.Z`

[mahfoud:1995a] Samir W. Mahfoud. *Niching methods for genetic algorithms.* PhD thesis, University of Illinois at Urbana-Champaign, Urbana, IL, USA, May 1995. IlliGAL Report 95001.

URL `ftp://ftp-illigal.ge.uiuc.edu/pub/papers/IlliGALs/95001.ps.Z`

[mahfoud:1995b] Samir W. Mahfoud. Population size and genetic drift in fitness sharing. In L. Darrell Whitley and Michael D. Vose, editors, *Foundations of genetic algorithms 3*, pages 185–224, San Francisco, 1995. Morgan Kaufmann.

URL `ftp://ftp-illigal.ge.uiuc.edu/pub/papers/Publications/Mahfoud/popsize.ps.Z`

[menczer:parisi:1992] Filippo Menczer and Domenico Parisi. A model for the emergence of sex in evolving networks: adaptive advantage or drift? In Francisco J. Varela and Paul Bourgine, editors, *Toward a practice of autonomous systems: Proceedings of the first european conference on artificial life*, pages 337–345, Cambridge, MA, USA, 1992. MIT Press.

[muehlenbein:schlierkamp-voosen:1993] Heinz Mühlenbein and Dirk Schlierkamp-Voosen. The science of breeding and its application to the breeder genetic algorithm (BGA). *Evolutionary Computation*, 1(4):335–360, 1993.

[syed:1995] Omar Syed. Applying genetic algorithms to recurrent neural networks for learning network parameters and architecture. Master's thesis, Case Western Reserve University, Cleveland, May 1995. See especially Appendix A.

URL `http://www.lerc.nasa.gov/people/OmarSyed/homepage/MSThesis/`

[wong:1995] Hermean Wong. *Performance Analysis of Genetic Algorithm.* PhD thesis, New Jersey Institute of Technology, 1995. As of June, 1996 this is not listed in Dissertation Abstracts International. The copy in the NJIT library is non–circulating, and it is not available by ftp.

[wright:1969] Sewall Wright. *Evolution and the genetics of populations*, volume 2, chapter 13 and 14, pages 345–416. University of Chicago Press, Chicago, 1969.