Список литературы

[1] Panait L, Luke S. A Comparison of Two Competitive Fitness Functions. 2002. Submitted to GECCO 2002.

[2] Angeline P, Pollack J. Competitive environments evolve better solutions for complex tasks; pp. 264–270.

[3] Cliff D, Miller GF. Tracking the Red Queen: Measurements of adaptive progress in co–evolutionary sumulations. In: *Proceedings of the Third European Conference on Artificial Life*. Springer–Verlag. 1995; pp. 200–218.

[4] Eriksson R, Olsson B. Cooperative Coevolution in Inventory Control Optimisation. In: *Proceedings of the Third International Conference on Artificial Neural Networks and Genetic Algorithms*, edited by Smith G, Steele N, Albrecht R. University of East Anglia, Norwich, UK: Springer. 1997; .

[5] Ficici S, Pollack J. A Game-Theoretic Approach to the Simple Coevolutionary Algorithm; pp. 467–476.

[6] Ficici S, Pollack J. Effects of Finite Populations on Evolutionary Stable Strategies; pp. 880–887.

[7] Ficici S, Pollack J. Game–Theoretic Investigation of Selection Methods Used in Evolutionary Algorithms; pp. 880–887.

[8] Ficici S, Pollack J. Challenges in Coevolutionary Learning: Arms–Race Dynamics, Open–Endedness, and Mediocre Stable States. In: *Proceedings of the Sixth International Conference on Artificial Life*, edited by et al A. Cambridge, MA: MIT Press. 1998; pp. 238–247.

[9] Ficici S, Pollack J. Pareto Optimality in Coevolutionary Learning. *Tech. rep.*, Brandeis University. 2001.

[10] Hillis D. Co-Evolving parasites improve simulated Evolution as an optimization procedure. *Artificial Life II, SFI Studies in the Sciences of Complexity*. 1991;10:313–324.

[11] Husbands P, Mill F. Simulated coevolution as the mechanism for emergent planning and scheduling. In: *Proceedings of the Fourch International Conference on Genetic Algorithms*, edited by Belew R, Booker L. Morgan Kaufmann. 1991; pp. 264–270.

[12] Husbands P. Distributed coevolutionary genetic algorithms for multi–criteria and multi-constraint optimisation. In: *Evolutionary Computing, AISB Workshop for Selected Papers*. Springer–Verlag. 1994; pp. 150–165.

[13] Rosin C, Belew R. New methods for competitive coevolution. *Evolutionary Computation*. 1996; 5(1):1–29.

[14] Juillé H, Pollak J. Co-evolving Interwined Spirals; pp. 461–468.

[15] Lubberts A, Miikkulainen R. Co-Evolving a Go-Playing Neural Network. In: *Coevolution: Turning Adaptive Algorithms upon Themselves, (Birds-on-a-Feather Workshop, Genetic and Evolutionary Computation Conference)*. 2001; .

[16] Moriarty DE, Mikkulainen R. Discovering Complex Othello Strategies through Evolutionary Neural Networks. *Connection Science*. 1995;7(3):105–209.

[17] Moriarty D, Miikkulainen R. Forming neural networks through efficient and adaptive coevolution. *Evolutionary Computation*. 1997;5(4):373–399.

[18] Paredis J. Steps towards co-evolutionary classification networks. In: *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.*, edited by Brooks RA, Maes P. MIT Press. 1994; pp. 359–365.

[19] Potter M, De Jong K. Cooperative Coevolution: An Architecture for Evolving Coadapted Subcomponents. *Evolutionary Computation*. 2000;8(1):1–29.

[20] Potter M, De Jong K. A Cooperative CoEvolutionary Approach to Function Optimization; pp. 249–257.

[21] Potter M, De Jong K. Evolving Neural Networks with Collaborative Species; pp. 307–317.

[22] Potter M. The Design and Analysis of a Computational Model of Cooperative CoEvolution. Ph.D. thesis, George Mason University, Fairfax, Virginia. 1997.

[23] Potter M, De Jong K. The Coevolution of Antibodies for Concept Learning; pp. 530–539.

[24] Rosin C, Belew R. New Methods for Competitive Coevolution. *Evolutionary Computation*. 1997; 5(1):1–29.

[25] Rosin C, Belew R. Methods for competitive co-evolution: Finding opponents worth beating; pp. 373–380.

[26] Paredis J. Coevolutionary Computation. *Artificial Life Journal*. 1996;2(3).

[27] Schlierkamp-Voosen D, Mühlenbein H. Strategy Adaptation by Competing Subpopulations; pp. 199–108.

[28] Pollack J, Blair A. Coevolution in the successful learning of backgammon strategy. *Machine Learning*. 1998;32(3):225–240.

[29] Sims K. Evolving Three-Dimensional Morphology and Behaviour. In: *Evolutionary Design by Computers*, edited by Bentley P. Morgan Kaufmann. 1999;.

[30] Pollack J, Blair A, Land M. Coevolution of a Backgammon Player. In: *Artificial Life V*. MIT Press. 1997; .

[31] Mayer H. Symbiotic Coevolution of Artificial Neural Networks and Training Data Sets; pp. 511–520.

[32] Rosin C. Coevolutionary Search Among Adversaries. Ph.D. thesis, University of California, San Diego. 1997.

[33] Wiegand RP, Liles W, De Jong K. Analyzing Cooperative Coevolution with Evolutionary Game Theory; (To appear).

[34] Wiegand RP. Applying Diffusion to a Cooperative Coevolutionary Model; pp. 560–569.

[35] Wiegand RP, Liles W, De Jong K. An Empirical Analysis of Collaboration Methods in Cooperative Coevolutionary Algorithms; pp. 1235–1242.

[36] Fogel G, Andrews P, Fogel D. On the instability of evolutionary stable strategies in small populations. *Ecological Modeling*. 1998;109:283–294.

[37] Fogel D, Fogel G, Andrews P. On the instability of evolutionary stable strategies. *BioSystems*. 1995;44:135–152.

[38] Fogel D, Fogel G. Evolutionary stable strategies are not always stable under evolutionary dynamics. In: *Proceedings of the Fourth Annual Conference on Evolutionary Programming*, edited by McDonnel JR, Reynolds RG, Fogel D. Cambridge, MA: MIT Press. 1995; pp. 565–577.

[39] Kauffman S. Coevolution to the edge of chaos: coupled fitness landscapes, poised states, and coevolutionary avalanches. In: *Artificial Life II: Studies in the Sciences of Complexity*, edited by Langton C, Taylor C, Farmer J, Rasmussen S, vol. X. Addison-Wesley. 1991; pp. 325–369.

[40] Pagie L, P H. Information integration and red queen dynamics in coevolutionary optimization; pp. 1260–1267.

[41] Pagie L, Mitchell M. A comparison of evolutionary and coevolutionary search; pp. 20–25.

[42] Pagie L, Hogeweg P. Evolutionary Consequences of coevolving targets. *Evolutionary Computation*. 1997;5(4):401–418.

[43] Pagie L. Coevolutionary dynamics: information integration, speciation, and red queen dynamics. Ph.D. thesis, University of New Mexico, Santa Fe, NM. 1999.

[44] Watson R, Pollack J. Coevolutionary Dynamics in a Minimal Substrate; pp. 702–709.

[45] Wiegand RP, Liles W, De Jong K. Multi–Population Symmetric Game Dynamics. 2001. In preparation.

[46] Juillé H. Basic Concepts in Coevolution. 2001. Presentation at GECCO-01 Coevolutionary Workshop.

[47] Luke S. Genetic Programming Produced Competitive Soccer Softbot Teams for RoboCup97. In: *Genetic Programming 1998: Proceedings of the Third Annual Conference*, edited by Koza JR, Banzhaf W, Chellapilla K, Deb K, Dorigo M, Fogel DB, Garzon MH, Goldberg DE, Iba H, Riolo R. University of Wisconsin, Madison, Wisconsin, USA: Morgan Kaufmann. 1998; pp. 214–222. URL http://www.cs.gmu.edu/~sean/papers/robocupgp98.pdf

[48] Axelrod R. *The Evolution of Cooperation*. Basic Books. 1984.

[49] Fogel D. *Blondie24: Playing at the Edge of Artificial Intelligence*. Morgan Kaufmann. 2001.

[50] Sims K. Evolving 3D Morphology and Behavior by Competition. In: *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.*, edited by Brooks RA, Maes P. MIT Press. 1994; pp. 28–39.

[51] Reynolds C. Competition, Coevolution and the Game of Tag. In: *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.*, edited by Brooks RA, Maes P. MIT Press. 1994; pp. 59–69.

[52] Smith R, Gray B. Co-adaptive genetic algorithms: An example in Othello strategy. *Tech. Rep. TCGA 94002*, University of Alabama, Department of Engineering Science and Mechanics. 1993.

[53] Axelrod. The Evolution of Strategies in the Iterated Prisoner's Dilemma. In: *Genetic Algorithms and Simulated Annealing*, edited by Davis L. Morgan Kaufmann. 1987;.