Список литературы

[Angeline & Pollack()] Angeline, P. & Pollack, J. (????) Competitive environments evolve better solutions for complex tasks. pp. 264–270.

[Axelrod(1987)] Axelrod (1987) The evolution of strategies in the iterated prisoner's dilemma. *Genetic Algorithms and Simulated Annealing* (ed. L. Davis), Morgan Kaufmann.

[Axelrod(1984)] Axelrod, R. (1984) *The Evolution of Cooperation.* Basic Books.

[Cliff & Miller(1995)] Cliff, D. & Miller, G.F. (1995) Tracking the red queen: Measurements of adaptive progress in co–evolutionary sumulations. *Proceedings of the Third European Conference on Artificial Life*, pp. 200–218, Springer–Verlag.

[Eriksson & Olsson(1997)] Eriksson, R. & Olsson, B. (1997) Cooperative coevolution in inventory control optimisation. *Proceedings of the Third International Conference on Artificial Neural Networks and Genetic Algorithms* (eds. G. Smith, N. Steele & R. Albrecht), Springer, University of East Anglia, Norwich, UK.

[Ficici & Pollack(a)] Ficici, S. & Pollack, J. (????a) Effects of finite populations on evolutionary stable strategies. pp. 880–887.

[Ficici & Pollack(b)] Ficici, S. & Pollack, J. (????b) Game–theoretic investigation of selection methods used in evolutionary algorithms. pp. 880–887.

[Ficici & Pollack(c)] Ficici, S. & Pollack, J. (????c) A game-theoretic approach to the simple coevolutionary algorithm. pp. 467–476.

[Ficici & Pollack(1998)] Ficici, S. & Pollack, J. (1998) Challenges in coevolutionary learning: Arms–race dynamics, open–endedness, and mediocre stable states. *Proceedings of the Sixth International Conference on Artificial Life* (ed. A. et al), pp. 238–247, MIT Press, Cambridge, MA.

[Ficici & Pollack(2001)] Ficici, S. & Pollack, J. (2001) Pareto optimality in coevolutionary learning. Tech. rep., Brandeis University.

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

[Fogel & Fogel(1995)] Fogel, D. & Fogel, G. (1995) Evolutionary stable strategies are not always stable under evolutionary dynamics. *Proceedings of the Fourth Annual Conference on Evolutionary Programming* (eds. J.R. McDonnel, R.G. Reynolds & D. Fogel), pp. 565–577, MIT Press, Cambridge, MA.

[Fogel *et al.*(1995)Fogel, Fogel & Andrews] Fogel, D., Fogel, G. & Andrews, P. (1995) On the instability of evolutionary stable strategies. *BioSystems* **44**, 135–152.

[Fogel *et al.*(1998)Fogel, Andrews & Fogel] Fogel, G., Andrews, P. & Fogel, D. (1998) On the instability of evolutionary stable strategies in small populations. *Ecological Modeling* **109**, 283–294.

[Hillis(1991)] Hillis, D. (1991) Co-evolving parasites improve simulated evolution as an optimization procedure. *Artificial Life II, SFI Studies in the Sciences of Complexity* **10**, 313–324.

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

[Husbands & Mill(1991)] Husbands, P. & Mill, F. (1991) Simulated coevolution as the mechanism for emergent planning and scheduling. *Proceedings of the Fourch International Conference on Genetic Algorithms* (eds. R. Belew & L. Booker), pp. 264–270, Morgan Kaufmann.

[Juillé(2001)] Juillé, H. (2001) Basic concepts in coevolution. Presentation at GECCO-01 Coevolutionary Workshop.

[Juillé & Pollak()] Juillé, H. & Pollak, J. (????) Co-evolving interwined spirals. pp. 461–468.

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

[Lubberts & Miikkulainen(2001)] Lubberts, A. & Miikkulainen, R. (2001) Co-evolving a Go-playing neural network. *Coevolution: Turning Adaptive Algorithms upon Themselves, (Birds-on-a-Feather Workshop, Genetic and Evolutionary Computation Conference).*

[Luke(1998)] Luke, S. (1998) Genetic programming produced competitive soccer softbot teams for RoboCup97. *Genetic Programming 1998: Proceedings of the Third Annual Conference* (eds. J.R. Koza, W. Banzhaf, K. Chellapilla, K. Deb, M. Dorigo, D.B. Fogel, M.H. Garzon, D.E. Goldberg, H. Iba & R. Riolo), pp. 214–222, Morgan Kaufmann, University of Wisconsin, Madison, Wisconsin, USA.

[Mayer()] Mayer, H. (????) Symbiotic coevolution of artificial neural networks and training data sets. pp. 511–520.

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

[Moriarty & Mikkulainen(1995)] Moriarty, D.E. & Mikkulainen, R. (1995) Discovering complex othello strategies through evolutionary neural networks. *Connection Science* **7**, 105–209.

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

[Pagie & Hogeweg(1997)] Pagie, L. & Hogeweg, P. (1997) Evolutionary consequences of coevolving targets. *Evolutionary Computation* **5**, 401–418.

[Pagie & Mitchell()] Pagie, L. & Mitchell, M. (????) A comparison of evolutionary and coevolutionary search. pp. 20–25.

[Pagie & P.()] Pagie, L. & P., H. (????) Information integration and red queen dynamics in coevolutionary optimization. pp. 1260–1267.

[Panait & Luke(2002)] Panait, L. & Luke, S. (2002) A comparison of two competitive fitness functions. Submitted to GECCO 2002.

[Paredis(1994)] Paredis, J. (1994) Steps towards co-evolutionary classification networks. *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.* (eds. R.A. Brooks & P. Maes), pp. 359–365, MIT Press.

[Paredis(1996)] Paredis, J. (1996) Coevolutionary computation. *Artificial Life Journal* **2**.

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

[Pollack *et al.*(1997)Pollack, Blair & Land] Pollack, J., Blair, A. & Land, M. (1997) Coevolution of a backgammon player. *Artificial Life V*, MIT Press.

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

[Potter & De Jong(a)] Potter, M. & De Jong, K. (????a) The coevolution of antibodies for concept learning. pp. 530–539.

[Potter & De Jong(b)] Potter, M. & De Jong, K. (????b) A cooperative coevolutionary approach to function optimization. pp. 249–257.

[Potter & De Jong(c)] Potter, M. & De Jong, K. (????c) Evolving neural networks with collaborative species. pp. 307–317.

[Potter & De Jong(2000)] Potter, M. & De Jong, K. (2000) Cooperative coevolution: An architecture for evolving coadapted subcomponents. *Evolutionary Computation* **8**, 1–29.

[Reynolds(1994)] Reynolds, C. (1994) Competition, coevolution and the game of tag. *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.* (eds. R.A. Brooks & P. Maes), pp. 59–69, MIT Press.

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

[Rosin & Belew()] Rosin, C. & Belew, R. (????) Methods for competitive co-evolution: Finding opponents worth beating. pp. 373–380.

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

[Rosin & Belew(1997)] Rosin, C. & Belew, R. (1997) New methods for competitive coevolution. *Evolutionary Computation* **5**, 1–29.

[Schlierkamp-Voosen & Mühlenbein()] Schlierkamp-Voosen, D. & Mühlenbein, H. (????) Strategy adaptation by competing subpopulations. pp. 199–108.

[Sims(1994)] Sims, K. (1994) Evolving 3D morphology and behavior by competition. *Artificial Life IV, Proceedings of the fourth International Workshop on the Synthesis and Simulation of Living Systems.* (eds. R.A. Brooks & P. Maes), pp. 28–39, MIT Press.

[Sims(1999)] Sims, K. (1999) Evolving three-dimensional morphology and behaviour. *Evolutionary Design by Computers* (ed. P. Bentley), Morgan Kaufmann.

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

[Watson & Pollack()] Watson, R. & Pollack, J. (????) Coevolutionary dynamics in a minimal substrate. pp. 702–709.

[Wiegand()] Wiegand, R.P. (????) Applying diffusion to a cooperative coevolutionary model. pp. 560–569.

[Wiegand *et al.*(a)Wiegand, Liles & De Jong] Wiegand, R.P., Liles, W. & De Jong, K. (????a) Analyzing cooperative coevolution with evolutionary game theory. (To appear).

[Wiegand *et al.*(b)Wiegand, Liles & De Jong] Wiegand, R.P., Liles, W. & De Jong, K. (????b) An empirical analysis of collaboration methods in cooperative coevolutionary algorithms. pp. 1235–1242.

[Wiegand *et al.*(2001)Wiegand, Liles & De Jong] Wiegand, R.P., Liles, W. & De Jong, K. (2001) Multi–population symmetric game dynamics. In preparation.