

Список литературы

- [Alissandrakis & Dautenhahn(1999)] Alissandrakis, A. & Dautenhahn, K. (1999) Evolution of vision-based agent behavior in hilly landscapes. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 186–190, Orlando, Florida, USA.
- [Anbarasu *et al.*(1999)Anbarasu, Narayanasamy & Sundararajan] Anbarasu, L.A., Narayanasamy, P. & Sundararajan, V. (1999) Multiple sequence alignment by parallelly evolvable genetic algorithms. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 154–156, Orlando, Florida, USA.
- [Antipov(1999)] Antipov, E. (1999) A max 1s problem in dna computing via gas. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 338, Orlando, Florida, USA.
- [Anwar(1999)] Anwar, A. (1999) Sparse distributed memory with evolutionary mechanisms. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 339–340, Orlando, Florida, USA.
- [Baeck(1999)] Baeck, T. (1999) Self-adaptive genetic algorithms for dynamic environments with slow dynamics. *Evolutionary Algorithms for Dynamic Optimization Problems* (eds. J. Branke & T. Baeck), pp. 142–145, Orlando, Florida, USA.
- [Bedau(1999a)] Bedau, M.A. (1999a) Can unrealistic computer models illuminate theoretical biology? *Computational Models in Theoretical Biology* (ed. C.C. Maley), pp. 20–23, Orlando, Florida, USA.
- [Bedau(1999b)] Bedau, M.A. (1999b) Quantifying the extent and intensity of adaptive evolution. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), pp. 34–37, Orlando, Florida, USA.
- [Bedau *et al.*(1999)Bedau, Joshi & Lillie] Bedau, M.A., Joshi, S. & Lillie, B. (1999) Visualizing waves of evolutionary activity of alleles. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 96–98, Orlando, Florida, USA.
- [bin Suen & shiang Kouh(1999)] bin Suen, J. & shiang Kouh, J. (1999) Genetic algorithms for optimal series propeller design. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 404–405, Orlando, Florida, USA.
- [Binh(1999)] Binh, T.T. (1999) A multiobjective evolutionary algorithm: The study cases. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 127–128, Orlando, Florida, USA.
- [Bonarini *et al.*(1999)Bonarini, Bonacina & Matteucci] Bonarini, A., Bonacina, C. & Matteucci, M. (1999) Fuzzy and crisp representations of real-valued input for learning classifier systems. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 228–235, Orlando, Florida, USA.
- [Booker(1999)] Booker, L.B. (1999) Do we really need to estimate rule utilities in classifier systems? *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 236–241, Orlando, Florida, USA.
- [Bradwell & Brown(1999)] Bradwell, R. & Brown, K. (1999) Parallel asynchronous memetic algorithms. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 157–159, Orlando, Florida, USA.
- [Branke(1999)] Branke, J. (1999) Evolutionary approaches to dynamic optimization problems - a survey. *Evolutionary Algorithms for Dynamic Optimization Problems* (eds. J. Branke & T. Baeck), pp. 134–137, Orlando, Florida, USA.
- [Braud & Vrain(1999)] Braud, A. & Vrain, C. (1999) A parallel genetic algorithm based on the bsp model. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 160–162, Orlando, Florida, USA.

- [Butz & Stolzmann(1999)] Butz, M. & Stolzmann, W. (1999) Action-planning in anticipatory classifier systems. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 242–249, Orlando, Florida, USA.
- [Card(1999)] Card, S. (1999) Genetic programming of wavelet networks for time series prediction. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 341–342, Orlando, Florida, USA.
- [Cardalda(1999)] Cardalda, J.J.R. (1999) Musical adaptive systems. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 343–344, Orlando, Florida, USA.
- [Chong(1999)] Chong, F.S. (1999) Java based distributed genetic programming on the internet. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 163–166, Orlando, Florida, USA.
- [Coello(1999)] Coello, C.A.C. (1999) Constraint handling through a multiobjective optimization technique. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 117–118, Orlando, Florida, USA.
- [Collins(1999a)] Collins, J.J. (1999a) Visualization of evolutionary algorithms using principal components analysis. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 99–100, Orlando, Florida, USA.
- [Collins(1999b)] Collins, T.D. (1999b) Evolutionary computation visualization. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 94–95, Orlando, Florida, USA.
- [Costa(1999)] Costa, J.C. (1999) Artificial life modeling of downy mildew of the grapevine. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 346–347, Orlando, Florida, USA.
- [Cunha et al.(1999)] Cunha, Oliveira & Covas] Cunha, A.G., Oliveira, P. & Covas, J.A. (1999) Genetic algorithms in multiobjective optimization problems: An application to polymer extrusion. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 129–130, Orlando, Florida, USA.
- [Daida(1999a)] Daida, J.M. (1999a) The methodology, pedagogy, and philosophy of genetic and evolutionary computation: Reporting and research practices. *The Methodology, Pedagogy, and Philosophy of Genetic and Evolutionary Computation* (ed. J.M. Daida), pp. 88–92, Orlando, Florida, USA.
- [Daida(1999b)] Daida, J.M. (1999b) Reconnoiter by candle: Identifying assumptions in genetic programming. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 53–54, Orlando, Florida, USA.
- [Davis(1999)] Davis, L. (1999) Telecommunications and the evolution of algorithms. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), pp. 213–214, Orlando, Florida, USA.
- [Davison & Rasheed(1999)] Davison, B.D. & Rasheed, K. (1999) Effect of global parallelism on a steady state ga. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 167–170, Orlando, Florida, USA.
- [Deb(1999)] Deb, K. (1999) Organizer's comments. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 111–112, Orlando, Florida, USA.
- [Dopico(1999)] Dopico, J.R.R. (1999) Search and generation of heuristic rules of experience for the simplification of ann training with genetic algorithm. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 348, Orlando, Florida, USA.
- [Eldershaw & Cameron(1999)] Eldershaw, C. & Cameron, S. (1999) Motion planning using gas. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 349, Orlando, Florida, USA.
- [Etaner-Uyar(1999)] Etaner-Uyar, S. (1999) New operators and dominance scheme for a diploid ga. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 350–351, Orlando, Florida, USA.

- [Feyzbakhsh(1999)] Feyzbakhsh, S.A. (1999) The new methodology of adam-eve-like genetic algorithm for cost optimization. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 352, Orlando, Florida, USA.
- [Freitas(1999)] Freitas, A.A. (1999) A summary of the papers presented at the joint aaai-99 and gecco-99 workshop on data mining with evolutionary algorithms: Research directions. *Joint GECCO-99 and AAAI-99 Workshop Data Mining with Evolutionary Algorithms: Research Directions* (ed. A.A. Freitas), p. 226, Orlando, Florida, USA.
- [Gallego-Schmid(1999)] Gallego-Schmid, M. (1999) Modified antnet: software application in the evaluation and management of a telecommunication network. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 353–354, Orlando, Florida, USA.
- [Giacobini(1999)] Giacobini, M. (1999) A randomness test for binary sequences based on evolutionary algorithms. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 355–356, Orlando, Florida, USA.
- [Glickman & Sycara(1999)] Glickman, M. & Sycara, K. (1999) Comparing mechanisms for evolving evolvability. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), pp. 38–41, Orlando, Florida, USA.
- [Haynes *et al.*(1999)] Haynes, Langdon, O'Reilly, Poli & Rosca] Haynes, T., Langdon, W.B., O'Reilly, U.M., Poli, R. & Rosca, J. (1999) Foundations of genetic programming: Preface. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), p. 52, Orlando, Florida, USA.
- [He & Mort(1999)] He, L. & Mort, N. (1999) Application of parallel genetic algorithms to combinatorial multimodal optimization problems. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 171–173, Orlando, Florida, USA.
- [Herreros *et al.*(1999)] Herreros, Baeyens & Peran] Herreros, A., Baeyens, E. & Peran, J.R. (1999) Design of multiobjective robust controllers using genetic algorithms. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 131–132, Orlando, Florida, USA.
- [Hidalgo(1999)] Hidalgo, J.I. (1999) Graph partitioning methods for multi-fpga systems and reconfigurable hardware using genetic algorithms. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 357–358, Orlando, Florida, USA.
- [Holmes(1999)] Holmes, J.H. (1999) Quantitative methods for evaluating learning classifier system performance in forced two-choice decision tasks. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 250–257, Orlando, Florida, USA.
- [Hoyweghen(1999)] Hoyweghen, C.V. (1999) Symmetry in the representation of an optimization problem. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 411, Orlando, Florida, USA.
- [Hussain(1999)] Hussain, T.S. (1999) Workshop on advanced grammar techniques within genetic programming and evolutionary computation. *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation* (ed. T.S. Hussain), p. 72, Orlando, Florida, USA.
- [Hussain & Browse(1999)] Hussain, T.S. & Browse, R.A. (1999) Genetic operators with dynamic biases that operate on attribute grammar representations of neural networks. *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation* (ed. T.S. Hussain), pp. 83–86, Orlando, Florida, USA.
- [Hutt & Keating(1999)] Hutt, B. & Keating, D. (1999) The evolution of an eye in visually guided foraging agents. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 196–200, Orlando, Florida, USA.
- [Jacob(1999)] Jacob, C. (1999) Lindenmayer systems and growth program evolution. *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation* (ed. T.S. Hussain), pp. 76–79, Orlando, Florida, USA.

- [Janikow(1999)] Janikow, C.Z. (1999) Constrained genetic programming. *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation* (ed. T.S. Hussain), pp. 80–82, Orlando, Florida, USA.
- [Jimenez *et al.*(1999)] Jimenez, Verdegay & Gomez-Skarmeta] Jimenez, F., Verdegay, J.L. & Gomez-Skarmeta, A.F. (1999) Evolutionary techniques for constrained multiobjective optimization problems. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 115–116, Orlando, Florida, USA.
- [Kalganova(1999)] Kalganova, T. (1999) A new evolutionary hardware approach for logic design. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 360–361, Orlando, Florida, USA.
- [Kanade(1999)] Kanade, U. (1999) A study of arithmetic genetic encoding for highly randomized fitness landscapes. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 362–363, Orlando, Florida, USA.
- [Karle(1999)] Karle, V. (1999) Algorithm for the paratransit vehicle routing problem using a modified crossover operator based on adjacency relations. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 364, Orlando, Florida, USA.
- [Karr(1999)] Karr, C.L. (1999) An architecture for adaptive process control systems. *Evolutionary Algorithms for Dynamic Optimization Problems* (eds. J. Branke & T. Baeck), pp. 146–148, Orlando, Florida, USA.
- [Keijzer(1999)] Keijzer, M. (1999) Scientific discovery using genetic programming. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 365–366, Orlando, Florida, USA.
- [Khalak(1999)] Khalak, A. (1999) Evolutionary model of open source software: economic impact. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 367–368, Orlando, Florida, USA.
- [Kim(1999)] Kim, J. (1999) An artificial immune system for network intrusion detection. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 369–370, Orlando, Florida, USA.
- [Knowles & Corne(1999)] Knowles, J. & Corne, D. (1999) Assessing the performance of the pareto archived evolution strategy. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 123–124, Orlando, Florida, USA.
- [Kovacs(1999)] Kovacs, T. (1999) Strength or accuracy? a comparison of two approaches to fitness calculation in learning classifier systems. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 258–265, Orlando, Florida, USA.
- [Krasnogor(1999)] Krasnogor, N. (1999) Coevolution of genes and memes in memetic algorithms. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 371, Orlando, Florida, USA.
- [Kubota & Fukuda(1999)] Kubota, N. & Fukuda, T. (1999) Hierarchical coding in coevolutionary algorithms. *Coevolutionary Algorithms and Coevolving Agents* (eds. C.G. Johnson, B. Olsson & S. Romaniuk), pp. 2–4, Orlando, Florida, USA.
- [Kumar(1999)] Kumar, S. (1999) Lessons from nature: The benefits of embryology. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 372–373, Orlando, Florida, USA.
- [Langdon(1999)] Langdon, W.B. (1999) Linear increase in tree height leads to sub-quadratic bloat. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 55–56, Orlando, Florida, USA.
- [Lattaud(1999)] Lattaud, C. (1999) Non-homogenous classifier systems in a macro-evolution process. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 266–271, Orlando, Florida, USA.
- [Li(1999)] Li, J. (1999) Fgp: A genetic programming tool for financial prediction. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 374, Orlando, Florida, USA.

- [Liese *et al.*(1999)Liese, Polani & Uthmann] Liese, A., Polani, D. & Uthmann, T. (1999) Evolution of the spectral properties of a visual agent receptor. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 201–206, Orlando, Florida, USA.
- [Livingstone(1999)] Livingstone, D. (1999) On modelling the evolution of language and languages. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 375–376, Orlando, Florida, USA.
- [Love & Johnson(1999)] Love, J.E. & Johnson, K.M. (1999) Evolving natural and artificial gravisensory systems. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 179–183, Orlando, Florida, USA.
- [Lukschandl(1999)] Lukschandl, E. (1999) Evolving the behavior of collaborating entities using genetic programming. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 377–378, Orlando, Florida, USA.
- [Maley(1999)] Maley, C.C. (1999) Methodologies in the use of computational models for theoretical biology. *Computational Models in Theoretical Biology* (ed. C.C. Maley), pp. 16–19, Orlando, Florida, USA.
- [Marino(1999)] Marino, A. (1999) Sexual vs. asexual recombination for the graph coloring problem with hybrid genetic algorithms. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 379–380, Orlando, Florida, USA.
- [Marrow(1999)] Marrow, P. (1999) Evolvability: Evolvability, computation, biology. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), pp. 30–33, Orlando, Florida, USA.
- [Mattfeld & Bierwirth(1999)] Mattfeld, D.C. & Bierwirth, C. (1999) Adaptation and dynamic optimization problems: A view from general system theory. *Evolutionary Algorithms for Dynamic Optimization Problems* (eds. J. Branke & T. Baeck), pp. 138–141, Orlando, Florida, USA.
- [Mautner(1999)] Mautner, C. (1999) Exploring sensor usage in simulated evolutionary robotics. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 184–185, Orlando, Florida, USA.
- [Mehrotra(1999)] Mehrotra, R. (1999) Gust loads and gust methods for predicting aircraft loads and dynamic response. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 381–382, Orlando, Florida, USA.
- [Monett(1999)] Monett, D. (1999) Genetic algorithm techniques and intelligent agents design for the mathematical modeling of chemical processes in medicine. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 383–385, Orlando, Florida, USA.
- [Munetomo(1999)] Munetomo, M. (1999) Designing genetic algorithms for adaptive routing algorithms in the internet. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), pp. 215–216, Orlando, Florida, USA.
- [Noda(1999)] Noda, E. (1999) Discovering interesting prediction rules with a genetic algorithm. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 386–387, Orlando, Florida, USA.
- [Nordin *et al.*(1999)Nordin, Banzhaf & Francone] Nordin, P., Banzhaf, W. & Francone, F.D. (1999) Compression of effective size in genetic programming. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 57–60, Orlando, Florida, USA.
- [Ochoa(1999)] Ochoa, G. (1999) The multiple roles of recombination in gas. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 388, Orlando, Florida, USA.
- [Ofria(1999)] Ofria, C. (1999) Robustness and evolvability of programming languages. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), p. 42, Orlando, Florida, USA.

- [Olsson(1999)] Olsson, L. (1999) Strategy evolution for electronic markets using genetic programming. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 389, Orlando, Florida, USA.
- [O'Neill(1999)] O'Neill, M. (1999) Automatic programming with grammatical evolution. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 390–391, Orlando, Florida, USA.
- [Parandekar(1999)] Parandekar, A. (1999) Genetic algorithm-based optimizer: A java based teaching tool. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 392–393, Orlando, Florida, USA.
- [Podgorelec(1999)] Podgorelec, V. (1999) Medical diagnosis prediction using genetic programming. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 394–395, Orlando, Florida, USA.
- [Pohlheim(1999)] Pohlheim, H. (1999) Visualization of evolutionary algorithms: Real-world application of standard techniques and multidimensional visualization. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 101–103, Orlando, Florida, USA.
- [Pohlheim et al.(1999)] Pohlheim, Pawletta & Westphal] Pohlheim, H., Pawletta, S. & Westphal, A. (1999) Parallel evolutionary optimization under matlab on standard computing networks. *Evolutionary Computation and Parallel Processing* (eds. E. Cantu-Paz & B. Punch), pp. 174–176, Orlando, Florida, USA.
- [Polani et al.(1999)] Polani, Uthmann & Dautenhahn] Polani, D., Uthmann, T. & Dautenhahn, K. (1999) Gecco birds-of-a-feather workshop on evolution of sensors in nature, hardware, and simulation. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), p. 178, Orlando, Florida, USA.
- [Poli(1999)] Poli, R. (1999) Schema theory without expectations for gp and gas with one-point crossover in the presence of schema creation. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 61–63, Orlando, Florida, USA.
- [Porter(1999)] Porter, R. (1999) Ga-accelerators using fpgas. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 396–397, Orlando, Florida, USA.
- [Pratihari(1999)] Pratihari, D.K. (1999) Optimal path and gait generations simultaneously of a six-legged robot using a ga-fuzzy approach. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 398–399, Orlando, Florida, USA.
- [Quick(1999)] Quick, T. (1999) Embodiment as situated structural coupling. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 400, Orlando, Florida, USA.
- [Rekiek(1999)] Rekiek, B. (1999) Multiple-objectives genetic algorithm. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 401, Orlando, Florida, USA.
- [Romaniuk(1999)] Romaniuk, S.G. (1999) From agent collaboration and communication to speciation and simplified software design. *Coevolutionary Algorithms and Coevolving Agents* (eds. C.G. Johnson, B. Olsson & S. Romaniuk), pp. 5–7, Orlando, Florida, USA.
- [Rosca(1999)] Rosca, J. (1999) Genetic programming acquires solutions by combining top-down and bottom-up refinement. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 64–65, Orlando, Florida, USA.
- [Rose(1999)] Rose, B.J. (1999) Logic-based genetic programming with definite clause translation grammars. *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation* (ed. T.S. Hussain), pp. 73–75, Orlando, Florida, USA.
- [Santana(1999)] Santana, R. (1999) On estimation distribution algorithms. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 402, Orlando, Florida, USA.
- [Santana et al.(1999)] Santana, Ochoa & Soto] Santana, R., Ochoa, A. & Soto, M.R. (1999) Evolutionary algorithms for dynamic optimization problems: An approach using evolutionary theory and the incident edge model. *Evolutionary Algorithms for Dynamic Optimization Problems* (eds. J. Branke & T. Baeck), pp. 149–152, Orlando, Florida, USA.

- [Saxon & Barry(1999)] Saxon, S. & Barry, A. (1999) Xcs and the monk's problems. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 272–281, Orlando, Florida, USA.
- [Sen *et al.*(1999a)Sen, Biswas, Debnath & Puppala] Sen, S., Biswas, A., Debnath, S. & Puppala, N. (1999a) Cooperative coevolution using shared memory. *Coevolutionary Algorithms and Coevolving Agents* (eds. C.G. Johnson, B. Olsson & S. Romaniuk), pp. 8–11, Orlando, Florida, USA.
- [Sen *et al.*(1999b)Sen, Mundhe & Debnath] Sen, S., Mundhe, M. & Debnath, S. (1999b) Evolving agent societies that avoid social dilemmas. *Coevolutionary Algorithms and Coevolving Agents* (eds. C.G. Johnson, B. Olsson & S. Romaniuk), pp. 12–14, Orlando, Florida, USA.
- [Shaw *et al.*(1999)Shaw, Fonseca & Fleming] Shaw, K.J., Fonseca, C.M. & Fleming, P.J. (1999) A simple demonstration of a quantitative technique for comparing multiobjective genetic algorithm performance. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 119–120, Orlando, Florida, USA.
- [Sheehan(1999)] Sheehan, L. (1999) Self-tuning evolutionary system. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 403, Orlando, Florida, USA.
- [Sinclair(1999)] Sinclair, M.C. (1999) Evolutionary telecommunications: A summary. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), pp. 209–212, Orlando, Florida, USA.
- [Sinclair & Clark(1999)] Sinclair, M.C. & Clark, A.F. (1999) Evolving an artificial vision system: Initial considerations. *Evolution of Sensors in Nature, Hardware, and Simulation* (eds. D. Polani, T. Uthmann & K. Dautenhahn), pp. 191–195, Orlando, Florida, USA.
- [Sinclair *et al.*(1999)Sinclair, Corne & Smith] Sinclair, M.C., Corne, D. & Smith, G.D. (1999) Evolutionary telecommunications: Past, present, and future. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), p. 208, Orlando, Florida, USA.
- [Smith(1999a)] Smith, G.D. (1999a) Genetic algorithms for mobile and satellite telecommunication systems. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), pp. 217–218, Orlando, Florida, USA.
- [Smith(1999b)] Smith, R.E. (1999b) Embodiment of evolutionary computation in network agents. *Evolutionary Telecommunications: Past, Present, and Future* (eds. M.C. Sinclair, D. Corne & G.D. Smith), pp. 219–220, Orlando, Florida, USA.
- [Smith *et al.*(1999)Smith, Dike, Ravichandran, El-Fallah & Mehra] Smith, R.E., Dike, B.A., Ravichandran, B., El-Fallah, A. & Mehra, R.K. (1999) The fighter aircraft lcs: A case of different lcs goals and techniques. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 282–289, Orlando, Florida, USA.
- [Spears(1999)] Spears, W.M. (1999) An overview of multidimensional visualization techniques. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 104–105, Orlando, Florida, USA.
- [Stolzmann(1999)] Stolzmann, W. (1999) Latent learning in khepera robots with anticipatory classifier systems. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 290–297, Orlando, Florida, USA.
- [Suppavitnarm(1999)] Suppavitnarm, A. (1999) Simulated annealing: An alternative approach to true multiobjective optimization. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 406–407, Orlando, Florida, USA.
- [Taghiyareh(1999)] Taghiyareh, F. (1999) Toward designing a new parallel fine-grain genetic algorithm. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 408, Orlando, Florida, USA.

- [Teuscher(1999)] Teuscher, C. (1999) Romero’s pilgrimage to santa fe: A tale of robot evolution. *Graduate Student Workshop* (ed. U.M. O’Reilly), pp. 409–410, Orlando, Florida, USA.
- [Tomlinson & Bull(1999a)] Tomlinson, A. & Bull, L. (1999a) A corporate xcs. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 298–305, Orlando, Florida, USA.
- [Tomlinson & Bull(1999b)] Tomlinson, A. & Bull, L. (1999b) A zeroth level corporate classifier system. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 306–313, Orlando, Florida, USA.
- [Turney(1999)] Turney, P.D. (1999) Increasing evolvability considered as a large scale trend in evolution. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), pp. 43–46, Orlando, Florida, USA.
- [Veldhuizen & Lamont(1999a)] Veldhuizen, D.A.V. & Lamont, G.B. (1999a) Genetic algorithms, building blocks, and multiobjective optimization. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 125–126, Orlando, Florida, USA.
- [Veldhuizen & Lamont(1999b)] Veldhuizen, D.A.V. & Lamont, G.B. (1999b) Moea test suite generation, design, and use. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 113–114, Orlando, Florida, USA.
- [Vele-Langs(1999)] Vele-Langs, O. (1999) A genetic metaheuristic for traveling salespersons problem. *Graduate Student Workshop* (ed. U.M. O’Reilly), pp. 412–413, Orlando, Florida, USA.
- [Voss(1999)] Voss, M. (1999) Evolutionary algorithm for structural optimization. *Graduate Student Workshop* (ed. U.M. O’Reilly), pp. 414–415, Orlando, Florida, USA.
- [Wagner(1999)] Wagner, G.P. (1999) The quantitative genetic theory of evolvability. *Evolvability* (eds. P. Marrow, M. Shackleton, J.L. Fernandez-Villacanas & T. Ray), pp. 47–50, Orlando, Florida, USA.
- [Watson(1999)] Watson, R. (1999) Evolution and problem decomposition. *Graduate Student Workshop* (ed. U.M. O’Reilly), pp. 416–417, Orlando, Florida, USA.
- [Westerdale(1999)] Westerdale, T.H. (1999) Wilson’s error measurement and the markov property – identifying detrimental classifiers. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 314–321, Orlando, Florida, USA.
- [Wilson(1999)] Wilson, S.W. (1999) State of xcs classifier system research. *2nd International Workshop on Learning Classifier Systems* (eds. P.L. Lanzi, W. Stolzmann & S.W. Wilson), pp. 322–334, Orlando, Florida, USA.
- [Wood(1999)] Wood, D.H. (1999) Getting our bearings in dna computing: A panel discussion. *Getting Our Bearings in DNA Computing* (ed. D.H. Wood), pp. 222–224, Orlando, Florida, USA.
- [Wu(1999)] Wu, A.S. (ed.) (1999) Orlando, Florida, USA.
- [Wu *et al.*(1999a)] Wu, Ramsey, Burke, De Jong & Grefenstette] Wu, A.S., Ramsey, C.L., Burke, D.S., De Jong, K.A. & Grefenstette, J.J. (1999a) An evolutionary computation model for studying viral evolution. *Computational Models in Theoretical Biology* (ed. C.C. Maley), pp. 24–28, Orlando, Florida, USA.
- [Wu *et al.*(1999b)] Wu, Ramsey, De Jong, Grefenstette & Burke] Wu, A.S., Ramsey, C.L., De Jong, K.A., Grefenstette, J.J. & Burke, D.S. (1999b) Vis: A genetic algorithm visualization tool. *Evolutionary Computation Visualization* (ed. T.D. Collins), pp. 106–109, Orlando, Florida, USA.
- [Yao(1999)] Yao, X. (1999) Universal approximation by genetic programming. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O’Reilly, R. Poli & J. Rosca), pp. 66–67, Orlando, Florida, USA.

- [Zemke(1999)] Zemke, S. (1999) Amalgamation of genetic selection and boosting. *Graduate Student Workshop* (ed. U.M. O'Reilly), pp. 418–419, Orlando, Florida, USA.
- [Zhang(1999a)] Zhang, B.T. (1999a) Bayesian genetic programming. *Foundations of Genetic Programming* (eds. T. Haynes, W.B. Langdon, U.M. O'Reilly, R. Poli & J. Rosca), pp. 68–70, Orlando, Florida, USA.
- [Zhang(1999b)] Zhang, J. (1999b) Niching in an es context. *Graduate Student Workshop* (ed. U.M. O'Reilly), p. 420, Orlando, Florida, USA.
- [Zitzler *et al.*(1999)Zitzler, Deb & Thiele] Zitzler, E., Deb, K. & Thiele, L. (1999) Comparison of multiobjective evolutionary algorithms on test functions of different difficulty. *Multi-criterion Optimization Using Evolutionary Methods* (ed. K. Deb), pp. 121–122, Orlando, Florida, USA.