Список литературы

- [AD99] Aris Alissandrakis and Kerstin Dautenhahn. Evolution of vision-based agent behavior in hilly landscapes. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, Evolution of Sensors in Nature, Hardware, and Simulation, pages 186–190, Orlando, Florida, USA, 13 July 1999.
- [ANS99] L. A. Anbarasu, P. Narayanasamy, and V. Sundararajan. Multiple sequence alignment by parallely evolvable genetic algorithms. In Erick Cantu-Paz and Bill Punch, editors, Evolutionary Computation and Parallel Processing, pages 154–156, Orlando, Florida, USA, 13 July 1999.
- [Ant99] Eugene Antipov. A max 1s problem in dna computing via gas. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 338, Orlando, Florida, USA, 13 July 1999.
- [Anw99] Ashraf Anwar. Sparse distributed memory with evolutionary mechanisms. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 339–340, Orlando, Florida, USA, 13 July 1999.
- [Bae99] Thomas Baeck. Self-adaptive genetic algorithms for dynamic environments with slow dynamics. In Juergen Branke and Thomas Baeck, editors, *Evolutionary Algorithms for Dynamic Optimization Problems*, pages 142–145, Orlando, Florida, USA, 13 July 1999.
- [BB99] Richard Bradwell and Ken Brown. Parallel asynchronous memetic algorithms. In Erick Cantu-Paz and Bill Punch, editors, *Evolutionary Computation and Parallel Processing*, pages 157–159, Orlando, Florida, USA, 13 July 1999.
- [BBM99] Andrea Bonarini, Claudio Bonacina, and Matteo Matteucci. Fuzzy and crisp representations of real-valued input for learning classifier systems. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 228–235, Orlando, Florida, USA, 13 July 1999.
- [Bed99a] Mark A. Bedau. Can unrealistic computer models illuminate theoretical biology? In C. C. Maley, editor, Computational Models in Theoretical Biology, pages 20–23, Orlando, Florida, USA, 13 July 1999.
- [Bed99b] Mark A. Bedau. Quantifying the extent and intensity of adaptive evolution. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, Evolvability, pages 34–37, Orlando, Florida, USA, 13 July 1999.
- [Bin99] To Thanh Binh. A multiobjective evolutionary algorithm: The study cases. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 127–128, Orlando, Florida, USA, 13 July 1999.
- [BJL99] Mark A. Bedau, Shareen Joshi, and Benjamin Lillie. Visualizing waves of evolutionary activity of alleles. In Trevor D. Collins, editor, *Evolutionary Computation Visualization*, pages 96–98, Orlando, Florida, USA, 13 July 1999.
- [Boo99] Lashon B. Booker. Do we really need to estimate rule utilities in classifier systems? In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 236–241, Orlando, Florida, USA, 13 July 1999.
- [Bra99] Juergen Branke. Evolutionary approaches to dynamic optimization problems a survey. In Juergen Branke and Thomas Baeck, editors, *Evolutionary Algorithms for Dynamic Optimization Problems*, pages 134–137, Orlando, Florida, USA, 13 July 1999.
- [BS99] Martin Butz and Wolfgang Stolzmann. Action-planning in anticipatory classifier systems. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 242–249, Orlando, Florida, USA, 13 July 1999.

- [bSsK99] Jyh bin Suen and Jen shiang Kouh. Genetic algorithms for optimal series propeller design. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 404–405, Orlando, Florida, USA, 13 July 1999.
- [BV99] Agnes Braud and Christel Vrain. A parallel genetic algorithm based on the bsp model. In Erick Cantu-Paz and Bill Punch, editors, *Evolutionary Computation and Parallel Processing*, pages 160–162, Orlando, Florida, USA, 13 July 1999.
- [Car99a] Stuart Card. Genetic programming of wavelet networks for time series prediction. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 341–342, Orlando, Florida, USA, 13 July 1999.
- [Car99b] Juan Jesus Romero Cardalda. Musical adaptive systems. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 343–344, Orlando, Florida, USA, 13 July 1999.
- [Cho99] Fuey Sian Chong. Java based distributed genetic programming on the internet. In Erick Cantu-Paz and Bill Punch, editors, *Evolutionary Computation and Parallel Processing*, pages 163–166, Orlando, Florida, USA, 13 July 1999.
- [COC99] A. Gaspar Cunha, P. Oliveira, and J. A. Covas. Genetic algorithms in multiobjective optimization problems: An application to polymer extrusion. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 129–130, Orlando, Florida, USA, 13 July 1999.
- [Coe99] Carlos A. Coello Coello. Constraint handling through a multiobjective optimization technique. In Kalyanmoy Deb, editor, Multi-criterion Optimization Using Evolutionary Methods, pages 117–118, Orlando, Florida, USA, 13 July 1999.
- [Col99a] J. J. Collins. Visualization of evolutionary algorithms using principal components analysis. In Trevor D. Collins, editor, Evolutionary Computation Visualization, pages 99–100, Orlando, Florida, USA, 13 July 1999.
- [Col99b] Trevor D. Collins. Evolutionary computation visualization. In Trevor D. Collins, editor, Evolutionary Computation Visualization, pages 94–95, Orlando, Florida, USA, 13 July 1999.
- [Cos99] Joao Carlos Costa. Artificial life modeling of downy mildew of the grapevine. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 346–347, Orlando, Florida, USA, 13 July 1999.
- [Dai99a] Jason M. Daida. The methodology, pedagogy, and philosophy of genetic and evolutionary computation: Reporting and research practices. In Jason M. Daida, editor, The Methodology, Pedagogy, and Philosophy of Genetic and Evolutionary Computation, pages 88–92, Orlando, Florida, USA, 13 July 1999.
- [Dai99b] Jason M. Daida. Reconnoiter by candle: Identifying assumptions in genetic programming. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 53–54, Orlando, Florida, USA, 13 July 1999.
- [Dav99] Lawrence Davis. Telecommunications and the evolution of algorithms. In Mark C. Sinclair, David Corne, and George D. Smith, editors, *Evolutionary Telecommunications:* Past, Present, and Future, pages 213–214, Orlando, Florida, USA, 13 July 1999.
- [Deb99] Kalyanmoy Deb. Organizer's comments. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 111–112, Orlando, Florida, USA, 13 July 1999.
- [Dop99] Juan Ramon Rabunal Dopico. Search and generation of heuristic rules of experience for the simplification of ann training with genetic algorithm. In Una-May O'Reilly, editor, Graduate Student Workshop, page 348, Orlando, Florida, USA, 13 July 1999.

- [DR99] Brian D. Davison and Khaled Rasheed. Effect of global parallelism on a steady state ga. In Erick Cantu-Paz and Bill Punch, editors, *Evolutionary Computation and Parallel Processing*, pages 167–170, Orlando, Florida, USA, 13 July 1999.
- [EC99] Craig Eldershaw and Stephen Cameron. Motion planning using gas. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 349, Orlando, Florida, USA, 13 July 1999.
- [EU99] Sima Etaner-Uyar. New operators and dominance scheme for a diploid ga. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 350–351, Orlando, Florida, USA, 13 July 1999.
- [Fey99] S. Alireza Feyzbakhsh. The new methodology of adam-eve-like genetic algorithm for cost optimization. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 352, Orlando, Florida, USA, 13 July 1999.
- [Fre99] Alex A. Freitas. A summary of the papers presented at the joint aaai-99 and gecco-99 workshop on data mining with evolutionary algorithms: Research directions. In Alex A. Freitas, editor, *Joint GECCO-99 and AAAI-99 Workshop Data Mining with Evolutionary Algorithms: Research Directions*, page 226, Orlando, Florida, USA, 13 July 1999.
- [Gia99] Mario Giacobini. A randomness test for binary sequences based on evolutionary algorithms. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 355–356, Orlando, Florida, USA, 13 July 1999.
- [GS99a] Marcos Gallego-Schmid. Modified antnet: software application in the evaluation and management of a telecommunication network. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 353–354, Orlando, Florida, USA, 13 July 1999.
- [GS99b] Matthew Glickman and Katia Sycara. Comparing mechanisms for evolving evolvability. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, Evolvability, pages 38–41, Orlando, Florida, USA, 13 July 1999.
- [HB99] Talib S. Hussain and Roger A. Browse. Genetic operators with dynamic biases that operate on attribute grammar representations of neural networks. In Talib S. Hussain, editor, Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation, pages 83–86, Orlando, Florida, USA, 13 July 1999.
- [HBP99] Alberto Herreros, Enrique Baeyens, and Jose R. Peran. Design of multiobjective robust controllers using genetic algorithms. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 131–132, Orlando, Florida, USA, 13 July 1999.
- [Hid99] Jose Ignacio Hidalgo. Graph partitioning methods for multi-fpga systems and reconfigurable hardware using genetic algorithms. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 357–358, Orlando, Florida, USA, 13 July 1999.
- [HK99] Ben Hutt and Dave Keating. The evolution of an eye in visually guided foraging agents. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, *Evolution of Sensors in Nature*, *Hardware*, and *Simulation*, pages 196–200, Orlando, Florida, USA, 13 July 1999.
- [HLO+99] Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca. Foundations of genetic programming: Preface. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, page 52, Orlando, Florida, USA, 13 July 1999.
- [HM99] Liwen He and Neil Mort. Application of parallel genetic algorithms to combinatorial multimodal optimization problems. In Erick Cantu-Paz and Bill Punch, editors, Evolutionary Computation and Parallel Processing, pages 171–173, Orlando, Florida, USA, 13 July 1999.

- [Hol99] John H. Holmes. Quantitative methods for evaluating learning classifier system performance in forced two-choice decision tasks. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 250–257, Orlando, Florida, USA, 13 July 1999.
- [Hoy99] Clarissa Van Hoyweghen. Symmetry in the representation of an optimization problem. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 411, Orlando, Florida, USA, 13 July 1999.
- [Hus99] Talib S. Hussain. Workshop on advanced grammar techniques within genetic programming and evolutionary computation. In Talib S. Hussain, editor, *Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation*, page 72, Orlando, Florida, USA, 13 July 1999.
- [Jac99] Christian Jacob. Lindenmayer systems and growth program evolution. In Talib S. Hussain, editor, Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation, pages 76–79, Orlando, Florida, USA, 13 July 1999.
- [Jan99] Cezary Z. Janikow. Constrained genetic programming. In Talib S. Hussain, editor, Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation, pages 80–82, Orlando, Florida, USA, 13 July 1999.
- [JVGS99] Fernando Jimenez, Jose L. Verdegay, and Antonio F. Gomez-Skarmeta. Evolutionary techniques for constrained multiobjective optimization problems. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 115–116, Orlando, Florida, USA, 13 July 1999.
- [Kal99] Tatiana Kalganova. A new evolutionary hardware approach for logic design. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 360–361, Orlando, Florida, USA, 13 July 1999.
- [Kan99] Udayan Kanade. A study of arithmetic genetic encoding for highly randomized fitness landscapes. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 362–363, Orlando, Florida, USA, 13 July 1999.
- [Kar99a] Vinay Karle. Algorithm for the paratransit vehicle routing problem using a modified crossover operator based on adjacency relations. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 364, Orlando, Florida, USA, 13 July 1999.
- [Kar99b] Charles L. Karr. An architecture for adaptive process control systems. In Juergen Branke and Thomas Baeck, editors, Evolutionary Algorithms for Dynamic Optimization Problems, pages 146–148, Orlando, Florida, USA, 13 July 1999.
- [KC99] Joshua Knowles and David Corne. Assessing the performance of the pareto archived evolution strategy. In Kalyanmoy Deb, editor, Multi-criterion Optimization Using Evolutionary Methods, pages 123–124, Orlando, Florida, USA, 13 July 1999.
- [Kei99] Maarten Keijzer. Scientific discovery using genetic programming. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 365–366, Orlando, Florida, USA, 13 July 1999.
- [KF99] Naoyuki Kubota and Toshio Fukuda. Hierarchical coding in coevolutionary algorithms. In Colin G. Johnson, Bjorn Olsson, and Steve Romaniuk, editors, Coevolutionary Algorithms and Coevolving Agents, pages 2–4, Orlando, Florida, USA, 13 July 1999.
- [Kha99] Asif Khalak. Evolutionary model of open source software: economic impact. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 367–368, Orlando, Florida, USA, 13 July 1999.
- [Kim99] Jungwon Kim. An artificial immune system for network intrusion detection. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 369–370, Orlando, Florida, USA, 13 July 1999.

- [Kov99] Tim Kovacs. Strength or accuracy? a comparison of two approaches to fitness calculation in learning classifier systems. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 258– 265, Orlando, Florida, USA, 13 July 1999.
- [Kra99] Natalio Krasnogor. Coevolution of genes and memes in memetic algorithms. In Una-May O'Reilly, editor, Graduate Student Workshop, page 371, Orlando, Florida, USA, 13 July 1999.
- [Kum99] Sanjeev Kumar. Lessons from nature: The benefits of embryology. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 372–373, Orlando, Florida, USA, 13 July 1999.
- [Lan99] W. B. Langdon. Linear increase in tree height leads to sub-quadratic bloat. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 55–56, Orlando, Florida, USA, 13 July 1999.
- [Lat99] Claude Lattaud. Non-homogenous classifier systems in a macro-evolution process. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 266–271, Orlando, Florida, USA, 13 July 1999.
- [Li99] Jin Li. Fgp: A genetic programming tool for financial prediction. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 374, Orlando, Florida, USA, 13 July 1999.
- [Liv99] Daniel Livingstone. On modelling the evolution of language and languages. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 375–376, Orlando, Florida, USA, 13 July 1999.
- [LJ99] J. E. Love and K. M. Johnson. Evolving natural and artificial gravisensory systems. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, Evolution of Sensors in Nature, Hardware, and Simulation, pages 179–183, Orlando, Florida, USA, 13 July 1999.
- [LPU99] Achim Liese, Daniel Polani, and Thomas Uthmann. Evolution of the spectral properties of a visual agent receptor. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, Evolution of Sensors in Nature, Hardware, and Simulation, pages 201–206, Orlando, Florida, USA, 13 July 1999.
- [Luk99] Eduard Lukschandl. Evolving the behavior of collaborating entities using genetic programming. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 377–378, Orlando, Florida, USA, 13 July 1999.
- [Mal99] C. C. Maley. Methodologies in the use of computational models for theoretical biology. In C. C. Maley, editor, Computational Models in Theoretical Biology, pages 16–19, Orlando, Florida, USA, 13 July 1999.
- [Mar99a] Anna Marino. Sexual vs. asexual recombination for the graph coloring problem with hybrid genetic algorithms. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 379–380, Orlando, Florida, USA, 13 July 1999.
- [Mar99b] Paul Marrow. Evolvability: Evolvability, computation, biology. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, Evolvability, pages 30– 33, Orlando, Florida, USA, 13 July 1999.
- [Mau99] Craig Mautner. Exploring sensor usage in simulated evolutionary robotics. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, *Evolution of Sensors in Nature*, *Hardware*, and *Simulation*, pages 184–185, Orlando, Florida, USA, 13 July 1999.
- [MB99] Dirk C. Mattfeld and Christian Bierwirth. Adaptation and dynamic optimization problems: A view from general system theory. In Juergen Branke and Thomas Baeck, editors, Evolutionary Algorithms for Dynamic Optimization Problems, pages 138–141, Orlando, Florida, USA, 13 July 1999.

- [Meh99] Rajiv Mehrotra. Gust loads and gust methods for predicting aircraft loads and dynamic response. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 381–382, Orlando, Florida, USA, 13 July 1999.
- [Mon99] Dagmar Monett. Genetic algorithm techniques and intelligent agents design for the mathematical modeling of chemical processes in medicine. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 383–385, Orlando, Florida, USA, 13 July 1999.
- [Mun99] Masaharu Munetomo. Designing genetic algorithms for adaptive routing algorithms in the internet. In Mark C. Sinclair, David Corne, and George D. Smith, editors, Evolutionary Telecommunications: Past, Present, and Future, pages 215–216, Orlando, Florida, USA, 13 July 1999.
- [NBF99] Peter Nordin, Wolfgang Banzhaf, and Frank D. Francone. Compression of effective size in genetic programming. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 57–60, Orlando, Florida, USA, 13 July 1999.
- [Nod99] Edgar Noda. Discovering interesting prediction rules with a genetic algorithm. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 386–387, Orlando, Florida, USA, 13 July 1999.
- [Och99] Gabriela Ochoa. The multiple roles of recombination in gas. In Una-May O'Reilly, editor, Graduate Student Workshop, page 388, Orlando, Florida, USA, 13 July 1999.
- [Ofr99] Charles Ofria. Robustness and evolvability of programming languages. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, *Evolvability*, page 42, Orlando, Florida, USA, 13 July 1999.
- [Ols99] Lars Olsson. Strategy evolution for electronic markets using genetic programming. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 389, Orlando, Florida, USA, 13 July 1999.
- [O'N99] Michael O'Neill. Automatic programming with grammatical evolution. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 390–391, Orlando, Florida, USA, 13 July 1999.
- [Par99] Amey Parandekar. Genetic algorithm-based optimizer: A java based teaching tool. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 392–393, Orlando, Florida, USA, 13 July 1999.
- [Pod99] Vili Podgorelec. Medical diagnosis prediction using genetic programming. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 394–395, Orlando, Florida, USA, 13 July 1999.
- [Poh99] Hartmut Pohlheim. Visualization of evolutionary algorithms: Real-world application of standard techniques and multidimensional visualization. In Trevor D. Collins, editor, Evolutionary Computation Visualization, pages 101–103, Orlando, Florida, USA, 13 July 1999.
- [Pol99] Riccardo Poli. Schema theory without expectations for gp and gas with one-point crossover in the presence of schema creation. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 61–63, Orlando, Florida, USA, 13 July 1999.
- [Por99] Reid Porter. Ga-accelerators using fpgas. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 396–397, Orlando, Florida, USA, 13 July 1999.
- [PPW99] Hartmut Pohlheim, Sven Pawletta, and Andreas Westphal. Parallel evolutionary optimization under matlab on standard computing networks. In Erick Cantu-Paz and Bill Punch, editors, Evolutionary Computation and Parallel Processing, pages 174–176, Orlando, Florida, USA, 13 July 1999.

- [Pra99] Dilip Kumar Pratihar. Optimal path and gait generations simultaneously of a six-legged robot using a ga-fuzzy approach. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 398–399, Orlando, Florida, USA, 13 July 1999.
- [PUD99] Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn. Gecco birds-of-a-feather workshop on evolution of sensors in nature, hardware, and simulation. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, Evolution of Sensors in Nature, Hardware, and Simulation, page 178, Orlando, Florida, USA, 13 July 1999.
- [Qui99] Tom Quick. Embodiment as situated structural coupling. In Una-May O'Reilly, editor, Graduate Student Workshop, page 400, Orlando, Florida, USA, 13 July 1999.
- [Rek99] Brahim Rekiek. Multiple-objectives genetic algorithm. In Una-May O'Reilly, editor, Graduate Student Workshop, page 401, Orlando, Florida, USA, 13 July 1999.
- [Rom99] Steve G. Romaniuk. From agent collaboration and communication to speciation and simplified software design. In Colin G. Johnson, Bjorn Olsson, and Steve Romaniuk, editors, Coevolutionary Algorithms and Coevolving Agents, pages 5–7, Orlando, Florida, USA, 13 July 1999.
- [Ros99a] Justinian Rosca. Genetic programming acquires solutions by combining top-down and bottom-up refinement. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 64–65, Orlando, Florida, USA, 13 July 1999.
- [Ros99b] Brian J. Rose. Logic-based genetic programming with definite clause translation grammars. In Talib S. Hussain, editor, Advanced Grammar Techniques Within Genetic Programming and Evolutionary Computation, pages 73–75, Orlando, Florida, USA, 13 July 1999.
- [San99] Roberto Santana. On estimation distribution algorithms. In Una-May O'Reilly, editor, Graduate Student Workshop, page 402, Orlando, Florida, USA, 13 July 1999.
- [SB99] Shaun Saxon and Alwyn Barry. Xcs and the monk's problems. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 272–281, Orlando, Florida, USA, 13 July 1999.
- [SBDP99] Sandip Sen, Anish Biswas, Sandip Debnath, and Narendra Puppala. Cooperative coevolution using shared memory. In Colin G. Johnson, Bjorn Olsson, and Steve Romaniuk, editors, Coevolutionary Algorithms and Coevolving Agents, pages 8–11, Orlando, Florida, USA, 13 July 1999.
- [SC99] Mark C. Sinclair and Adrian F. Clark. Evolving an artificial vision system: Initial considerations. In Daniel Polani, Thomas Uthmann, and Kerstin Dautenhahn, editors, Evolution of Sensors in Nature, Hardware, and Simulation, pages 191–195, Orlando, Florida, USA, 13 July 1999.
- [SCS99] Mark C. Sinclair, David Corne, and George D. Smith. Evolutionary telecommunications: Past, present, and future. In Mark C. Sinclair, David Corne, and George D. Smith, editors, Evolutionary Telecommunications: Past, Present, and Future, page 208, Orlando, Florida, USA, 13 July 1999.
- [SDR⁺99] R. E. Smith, B. A. Dike, B. Ravichandran, A. El-Fallah, and R. K. Mehra. The fighter aircraft lcs: A case of different lcs goals and techniques. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 282–289, Orlando, Florida, USA, 13 July 1999.
- [SFF99] K. J. Shaw, C. M. Fonseca, and P. J. Fleming. A simple demonstration of a quantitative technique for comparing multiobjective genetic algorithm performance. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 119–120, Orlando, Florida, USA, 13 July 1999.

- [She99] Lucia Sheehan. Self-tuning evolutionary system. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 403, Orlando, Florida, USA, 13 July 1999.
- [Sin99] Mark C. Sinclair. Evolutionary telecommunications: A summary. In Mark C. Sinclair, David Corne, and George D. Smith, editors, Evolutionary Telecommunications: Past, Present, and Future, pages 209–212, Orlando, Florida, USA, 13 July 1999.
- [SMD99] Sandip Sen, Manisha Mundhe, and Sandip Debnath. Evolving agent societies that avoid social dilemmas. In Colin G. Johnson, Bjorn Olsson, and Steve Romaniuk, editors, Coevolutionary Algorithms and Coevolving Agents, pages 12–14, Orlando, Florida, USA, 13 July 1999.
- [Smi99a] George D. Smith. Genetic algorithms for mobile and satellite telecommunication systems. In Mark C. Sinclair, David Corne, and George D. Smith, editors, Evolutionary Telecommunications: Past, Present, and Future, pages 217–218, Orlando, Florida, USA, 13 July 1999.
- [Smi99b] Robert E. Smith. Embodiment of evolutionary computation in network agents. In Mark C. Sinclair, David Corne, and George D. Smith, editors, Evolutionary Telecommunications: Past, Present, and Future, pages 219–220, Orlando, Florida, USA, 13 July 1999.
- [SOS99] Roberto Santana, Alberto Ochoa, and Marta R. Soto. Evolutionary algorithms for dynamic optimization problems: An approach using evolutionary theory and the incident edge model. In Juergen Branke and Thomas Baeck, editors, *Evolutionary Algorithms for Dynamic Optimization Problems*, pages 149–152, Orlando, Florida, USA, 13 July 1999.
- [Spe99] William M. Spears. An overview of multidimensional visualization techniques. In Trevor D. Collins, editor, Evolutionary Computation Visualization, pages 104–105, Orlando, Florida, USA, 13 July 1999.
- [Sto99] Wolfgang Stolzmann. Latent learning in khepera robots with anticipatory classifier systems. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 290–297, Orlando, Florida, USA, 13 July 1999.
- [Sup99] Apichart Suppapitnarm. Simulated annealing: An alternative approach to true multiobjective optimization. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 406–407, Orlando, Florida, USA, 13 July 1999.
- [Tag99] Fattaneh Taghiyareh. Toward designing a new parallel fine-grain genetic algorithm. In Una-May O'Reilly, editor, *Graduate Student Workshop*, page 408, Orlando, Florida, USA, 13 July 1999.
- [TB99a] Andy Tomlinson and Larry Bull. A corporate xcs. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 298–305, Orlando, Florida, USA, 13 July 1999.
- [TB99b] Andy Tomlinson and Larry Bull. A zeroth level corporate classifier system. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 306–313, Orlando, Florida, USA, 13 July 1999.
- [Teu99] Christof Teuscher. Romero's pilgrimage to santa fe: A tale of robot evolution. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 409–410, Orlando, Florida, USA, 13 July 1999.
- [Tur99] Peter D. Turney. Increasing evolvability considered as a large scale trend in evolution. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, *Evolvability*, pages 43–46, Orlando, Florida, USA, 13 July 1999.
- [VL99a] David A. Van Veldhuizen and Gary B. Lamont. Genetic algorithms, building blocks, and multiobjective optimization. In Kalyanmoy Deb, editor, *Multi-criterion Optimization* Using Evolutionary Methods, pages 125–126, Orlando, Florida, USA, 13 July 1999.

- [VL99b] David A. Van Veldhuizen and Gary B. Lamont. Moea test suite generation, design, and use. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 113–114, Orlando, Florida, USA, 13 July 1999.
- [VL99c] Oswaldo Vele-Langs. A genetic metaheuristic for traveling salespersons problem. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 412–413, Orlando, Florida, USA, 13 July 1999.
- [Vos99] Mark Voss. Evolutionary algorithm for structural optimization. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 414–415, Orlando, Florida, USA, 13 July 1999.
- [Wag99] Gunter P. Wagner. The quantitative genetic theory of evolvability. In Paul Marrow, Mark Shackleton, Jose-Luis Fernandez-Villacanas, and Tom Ray, editors, *Evolvability*, pages 47–50, Orlando, Florida, USA, 13 July 1999.
- [Wat99] Richard Watson. Evolution and problem decomposition. In Una-May O'Reilly, editor, Graduate Student Workshop, pages 416–417, Orlando, Florida, USA, 13 July 1999.
- [Wes99] T. H. Westerdale. Wilson's error measurement and the markov property identifying detrimental classifiers. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 314–321, Orlando, Florida, USA, 13 July 1999.
- [Wil99] Stewart W. Wilson. State of xcs classifier system research. In Pier Luca Lanzi, Wolfgang Stolzmann, and Stewart W. Wilson, editors, 2nd International Workshop on Learning Classifier Systems, pages 322–334, Orlando, Florida, USA, 13 July 1999.
- [Woo99] David Harlan Wood. Getting our bearings in dna computing: A panel discussion. In David Harlan Wood, editor, *Getting Our Bearings in DNA Computing*, pages 222–224, Orlando, Florida, USA, 13 July 1999.
- [WRB+99] Annie S. Wu, Connie L. Ramsey, Donald S. Burke, Kenneth A. De Jong, and John J. Grefenstette. An evolutionary computation model for studying viral evolution. In C. C. Maley, editor, Computational Models in Theoretical Biology, pages 24–28, Orlando, Florida, USA, 13 July 1999.
- [WRD⁺99] Annie S. Wu, Connie L. Ramsey, Kenneth A. De Jong, John J. Grefenstette, and Donald S. Burke. Vis: A genetic algorithm visualization tool. In Trevor D. Collins, editor, *Evolutionary Computation Visualization*, pages 106–109, Orlando, Florida, USA, 13 July 1999.
- [Wu99] Annie S. Wu, editor. Orlando, Florida, USA, 13 July 1999.
- [Yao99] Xin Yao. Universal approximation by genetic programming. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 66–67, Orlando, Florida, USA, 13 July 1999.
- [ZDT99] Eckart Zitzler, Kalyanmoy Deb, and Lothar Thiele. Comparison of multiobjective evolutionary algorithms on test functions of different difficulty. In Kalyanmoy Deb, editor, *Multi-criterion Optimization Using Evolutionary Methods*, pages 121–122, Orlando, Florida, USA, 13 July 1999.
- [Zem99] Stefan Zemke. Amalgamation of genetic selection and boosting. In Una-May O'Reilly, editor, *Graduate Student Workshop*, pages 418–419, Orlando, Florida, USA, 13 July 1999.
- [Zha99a] Byoung-Tak Zhang. Bayesian genetic programming. In Thomas Haynes, William B. Langdon, Una-May O'Reilly, Riccardo Poli, and Justinian Rosca, editors, Foundations of Genetic Programming, pages 68–70, Orlando, Florida, USA, 13 July 1999.
- [Zha99b] Jian Zhang. Niching in an es context. In Una-May O'Reilly, editor, Graduate Student Workshop, page 420, Orlando, Florida, USA, 13 July 1999.