Список литературы

- [1] Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.) GECCO 2007: Proceedings of the 9th annual conference on Genetic and evolutionary computation London, UK (7-11 July, 2007) ACM Press.
- [2] Abraham, A., Das, S., and Konar, A. (7-11 July, 2007) Kernel based automatic clustering using modified particle swarm optimization algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 2–9.
- [3] Alba, E. and Chicano, F. (7-11 July, 2007) ACOhg: dealing with huge graphs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 10–17.
- [4] Bird, S. and Li, X. (7-11 July, 2007) Informative performance metrics for dynamic optimisation problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 18–25.
- [5] Cayzer, S. and Sullivan, J. (7-11 July, 2007) Modelling danger and anergy in artificial immune systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 26–32.
- [6] Doerr, B., Neumann, F., Sudholt, D., and Witt, C. (7-11 July, 2007) On the runtime analysis of the 1-ANT ACO algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 33-40.
- [7] Fernandes, C. M., Rosa, A. C., and Ramos, V. (7-11 July, 2007) Binary ant algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 41–48.
- [8] Greensmith, J. and Aickelin, U. (7-11 July, 2007) Dendritic cells for SYN scan detection. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 49–56.
- [9] Halavati, R., Shouraki, S. B., Heravi, M. J., and Jashmi, B. J. (7-11 July, 2007) An artificial immune system with partially specified antibodies. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S.,

- Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 57–62.
- [10] Khan, A. A., Naeem, M., and Shah, S. I. (7-11 July, 2007) A particle swarm algorithm for symbols detection in wideband spatial multiplexing systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 63–69.
- [11] Koduru, P., Welch, S. M., and Das, S. (7-11 July, 2007) A particle swarm optimization approach for estimating parameter confidence regions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 70-77.
- [12] Li, X. (7-11 July, 2007) A multimodal particle swarm optimizer based on fitness Euclidean-distance ratio. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 78–85.
- [13] Luke, S., Sharma, D., and Balan, G. C. (7-11 July, 2007) Finding interesting things. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 86–93.
- [14] Luna, F., Blum, C., Alba, E., and Nebro, A. J. (7-11 July, 2007) ACO vs EAs for solving a real-world frequency assignment problem in GSM networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 94–101.
- [15] Mazhar, N. and Farooq, M. (7-11 July, 2007) Vulnerability analysis and security framework (BeeSec) for nature inspired MANET routing protocols. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 102–109.
- [16] Mohais, A. S., Mohais, R., Ward, C., and Posthoff, C. (7-11 July, 2007) Earthquake classifying neural networks trained with random dynamic neighborhood PSOs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 110–117.
- [17] Moraglio, A. and Togelius, J. (7-11 July, 2007) Geometric particle swarm optimization for the sudoku puzzle. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 118–125.

- [18] Pan, Q.-Q., Tasgetiren, M. F., and Liang, Y.-C. (7-11 July, 2007) A discrete differential evolution algorithm for the permutation flowshop scheduling problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 126–133.
- [19] Poli, R. and Broomhead, D. (7-11 July, 2007) Exact analysis of the sampling distribution for the canonical particle swarm optimiser and its convergence during stagnation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 134–141.
- [20] Poli, R. and Langdon, W. B. (7-11 July, 2007) Markov chain models of bare-bones particle swarm optimizers. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 142–149.
- [21] Ridge, E. and Kudenko, D. (7-11 July, 2007) Analyzing heuristic performance with response surface models: prediction, optimization and robustness. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 150–157.
- [22] Tasgetiren, M. F., Suganthan, P. N., and Pan, Q.-Q. (7-11 July, 2007) A discrete particle swarm optimization algorithm for the generalized traveling salesman problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 158–167.
- [23] Anastasiadis, A. D., Georgoulas, G., Magoulas, G., and Tzes, A. (7-11 July, 2007) Adaptive particle swarm optimizer with nonextensive schedule. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 168–168.
- [24] Baig, A. R. and Rashid, M. (7-11 July, 2007) Honey bee foraging algorithm for multimodal & dynamic optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 169–169.
- [25] de Freitas, A. A. and Mayer, C. B. (7-11 July, 2007) The effectiveness of dynamic ant colony tuning. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 170–170.

- [26] Figueredo, G. P., Ebecken, N. F., and Barbosa, H. C. (7-11 July, 2007) Suppression based immune mechanism to find are presentative training set in data classification tasks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 171–171.
- [27] Gong, T. and Tuson, A. L. (7-11 July, 2007) Binary particle swarm optimization: a forma analysis approach. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 172–172.
- [28] Nguyen, X. H., Nguyen, Q. U., and McKay, R. I. (7-11 July, 2007) PSO with randomized low-discrepancy sequences. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 173–173.
- [29] Lam, H. T., Nicolaevna, P. N., and Quan, N. T. M. (7-11 July, 2007) A heuristic particle swarm optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 174–174.
- [30] Lavagna, M. R. (7-11 July, 2007) Multi-objective pso for interplanetary trajectory design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 175–175.
- [31] Manuel López-Ibá n., Prasad, T. D., and Paechter, B. (7-11 July, 2007) Solving optimal pump control problem using max-min ant system. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 176–176.
- [32] McNabb, A. W., Monson, C. K., and Seppi, K. D. (7-11 July, 2007) MRPSO: MapReduce particle swarm optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 177–177.
- [33] Pellegrini, P. and Moretti, E. (7-11 July, 2007) Quick-and-dirty ant colony optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 178–178.
- [34] Piccand, S., O'Neill, M., and Walker, J. (7-11 July, 2007) Scalability of particle swarm algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B.,

- Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 179–179.
- [35] Ridge, E. and Kudenko, D. (7-11 July, 2007) Screening the parameters affecting heuristic performance. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 180–180.
- [36] Romero, A. and Nino, F. (7-11 July, 2007) Keyword extraction using an artificial immune system. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 181–181.
- [37] Shafiq, M. Z., Kiani, M., Hashmi, B., and Farooq, M. (7-11 July, 2007) Extended thymus action for reducing false positives in ais based network intrusion detection systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 182–182.
- [38] Snyman, J. A. and Kok, S. (7-11 July, 2007) A strongly interacting dynamic particle swarm optimizational method. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 183–183.
- [39] Stewart, R. L. and Kirley, M. (7-11 July, 2007) Swarming with logic. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 184–184.
- [40] Wang, J. and Zhou, Y. (7-11 July, 2007) Hybrid quantum particle swarm optimization algorithm for combinatorial optimization problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 185–185.
- [41] Zeng, Y., H, J. C., and Buus, D. P. (7-11 July, 2007) SwarmArchitect: a swarm framework for collaborative construction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 186–186.
- [42] Zuo, X. (7-11 July, 2007) Robust scheduling method based on workflow simulation model and biological immune principle. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A.,

- and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 187–187.
- [43] Becker, J., Trendelenburg, S., Henrici, F., and Manoli, Y. (7-11 July, 2007) Synthesis of analog filters on an evolvable hardware platform using a genetic algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 190–197.
- [44] Bongard, J. (7-11 July, 2007) Action-selection and crossover strategies for self-modeling machines. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 198–205.
- [45] Contreras, E. B. (7-11 July, 2007) A biologically inspired solution for an evolved simulated agent. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 206–213.
- [46] Bongard, J. (7-11 July, 2007) Exploiting multiple robots to accelerate self-modeling. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 214–221.
- [47] Bullinaria, J. A. (7-11 July, 2007) The effect of learning on life history evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 222–229.
- [48] Di Chio, C., Poli, R., and Di Chio, P. (7-11 July, 2007) EcoPS: a particle swarm algorithm to model group-foraging. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 230–237.
- [49] Estévez, N. S. and Lipson, H. (7-11 July, 2007) Dynamical blueprints: exploiting levels of system-environment interaction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 238–244.
- [50] Gajda, Z. and Sekanina, L. (7-11 July, 2007) Reducing the number of transistors in digital circuits using gate-level evolutionary design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 245–252.

- [51] Gotshall, S. P. and Soule, T. (7-11 July, 2007) Stochastic training of a biologically plausible spino-neuromuscular system model. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 253–260.
- [52] Gui, M., Das, S., and Pahwa, A. (7-11 July, 2007) Procreating V-detectors for nonself recognition: an application to anomaly detection in power systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 261–268.
- [53] Khan, G. M., Miller, J. F., and Halliday, D. M. (7-11 July, 2007) Coevolution of intelligent agents using cartesian genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 269–276.
- [54] Khor, S. (7-11 July, 2007) Hill climbing on discrete HIFF: exploring the role of DNA transposition in long-term artificial evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 277–284.
- [55] Kim, D. (7-11 July, 2007) A quantitative analysis of memory requirement and generalization performance for robotic tasks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 285–292.
- [56] Knoester, D. B., McKinley, P. K., and Ofria, C. A. (7-11 July, 2007) Using group selection to evolve leadership in populations of self-replicating digital organisms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 293–300.
- [57] McCormack, J. (7-11 July, 2007) Artificial ecosystems for creative discovery. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 301–307.
- [58] Payne, J. L. and Eppstein, M. J. (7-11 July, 2007) Takeover times on scale-free topologies. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 308–315.
- [59] Spector, L., Klein, J., and Feinstein, M. (7-11 July, 2007) Division blocks and the open-ended evolution of development, form, and behavior. In Thierens, D., Beyer, H.-G., Bongard, J., Branke,

- J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 316–323.
- [60] Togelius, J., De Nardi, R., Marques, H., Newcombe, R., Lucas, S. M., and Holland, O. (7-11 July, 2007) Nonlinear dynamics modelling for controller evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 324–333.
- [61] Baddeley, B. and Philippides, A. (7-11 July, 2007) Bee SLAM: a probabilistic framework for studying orientation flights in bees and wasps. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 334–334.
- [62] Eiben, G., Bekker, J., Griffioen, R., and Haasdijk, E. (7-11 July, 2007) Balancing quality and quantity in evolving agent systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 335–335.
- [63] Brodu, N. (7-11 July, 2007) A framework for the emergence of intra-species mutual recognition patterns. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 336–336.
- [64] Curran, D., O'Riordan, C., and Sorensen, H. (7-11 July, 2007) The effects of lifetime learning on the diversity and fitness of populations. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 337–337.
- [65] Curran, D., O'Riordan, C., and Sorensen, H. (7-11 July, 2007) Self-adaptation of cultural learning parameters. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 338–338.
- [66] Hengjie, S., Chunyan, M., and Zhiqi, S. (7-11 July, 2007) Fuzzy cognitive map learning based on multi-objectiveparticle swarm optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 339–339.
- [67] Kowall, C. A. and Krent, B. J. (7-11 July, 2007) A simulation of evolved autotrophic reproduction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO

- '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 340–340.
- [68] Nitschke, G. S., Schut, M. C., and Eiben, A. E. (7-11 July, 2007) Collective specialization in multi-rover systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 342–342.
- [69] Powers, S. T. and Watson, R. A. (7-11 July, 2007) Preliminary investigations into the evolution of cooperative strategies in a minimally spatial model. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 343–343.
- [70] Priesterjahn, S. and Weimer, A. (7-11 July, 2007) An evolutionary online adaptation method for modern computer games based on imitation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 344–345.
- [71] Bacardit, J., Stout, M., Hirst, J. D., Sastry, K., Llorà, X., and Krasnogor, N. (7-11 July, 2007) Automated alphabet reduction method with evolutionary algorithms for protein structure prediction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 346–353.
- [72] Bleuler, S. and Zitzler, E. (7-11 July, 2007) Discrimination of metabolic flux profiles using a hybrid evolutionary algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 354–360.
- [73] Brookes, E. H. and Demeler, B. (7-11 July, 2007) Parsimonious regularization using genetic algorithms applied to the analysis of analytical ultracentrifugation experiments. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 361–368.
- [74] Bull, L. and Uroukov, I. S. (7-11 July, 2007) Initial results from the use of learning classifier systems to control in vitro neuronal networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 369-376.
- [75] Chan, T.-M., Leung, K.-S., and Lee, K.-H. (7-11 July, 2007) TFBS identification by position-and consensus-led genetic algorithm with local filtering. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 377–384.

- [76] Divina, F. and Aguilar-Ruiz, J. S. (7-11 July, 2007) A multi-objective approach to discover biclusters in microarray data. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 385–392.
- [77] Torres, S. R. D., Romero, D. C. B., Vasquez, L. F. N., and Ardila, Y. J. P. (7-11 July, 2007) A novel ab-initio genetic-based approach for protein folding prediction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 393–400.
- [78] Küçükural, A., Yeniterzi, R., Yeniterzi, S., and Sezerman, O. U. (7-11 July, 2007) Evolutionary selection of minimum number of features for classification of gene expression data using genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 401–406.
- [79] Looks, M., Goertzel, B., de Souza Coelho, L., Mudado, M., and Pennachin, C. (7-11 July, 2007) Clustering gene expression data via mining ensembles of classification rules evolved using moses. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 407–414.
- [80] Rocha, M., Mendes, R., Maia, P., Daniel Glez-Pe n., and Fdez-Riverola, F. (7-11 July, 2007) A platform for the selection of genes in DNA microarraydata using evolutionary algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 415–423.
- [81] Bazzoli, A., Colombo, G., and Tettamanzi, A. G. B. (7-11 July, 2007) Ab initio protein structure prediction with a dipeptide-assembly evolutionary algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 424-424.
- [82] de Lima, T. W., Faccioli, R. A., Gabriel, P. H. R., Delbem, A. C. B., and Nunes da Silva, I. (7-11 July, 2007) Evolutionary approach to protein structure prediction with hydrophobic interactions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 425–425.
- [83] Fernando, C. T. and Rowe, J. (7-11 July, 2007) Hebbian learning in a simple gene circuit. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO

- '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 426–426.
- [84] García-Nieto, J., Alba, E., Jourdan, L., and Talbi, E.-G. (7-11 July, 2007) A comparison of PSO and GA approaches for gene selection and classification of microarray data. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 427–427.
- [85] Keedwell, E. and Narayanan, A. (7-11 July, 2007) Gene finding and rule discovery with a multi-objective neural-genetic hybrid. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 428–428.
- [86] Latham, W., Shaw, M., Todd, S., and Leymarie, F. F. (7-11 July, 2007) Using DNA to generate 3D organic art forms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 429–429.
- [87] Looks, M., Goertzel, B., de Souza Coelho, L., Mudado, M., and Pennachin, C. (7-11 July, 2007) Understanding microarray data through applying competent program evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 430–430.
- [88] Menolascina, F., Alves, R. T., Tommasi, S., Chiarappa, P., Delgado, M., Mastronardi, G., Paradiso, A., Freitas, A., and Bevilacqua, V. (7-11 July, 2007) Induction of fuzzy rules with artificial immune systems in acgh based er status breast cancer characterization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 431–431.
- [89] Moore, J. H., Barney, N., and White, B. C. (7-11 July, 2007) Towards human-human-computer interaction for biologically-inspired problem-solving in human genetics. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 432–433.
- [90] Bucci, A. and Pollack, J. B. (7-11 July, 2007) Thoughts on solution concepts. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 434–439.
- [91] De Jong, E. D. (7-11 July, 2007) Objective fitness correlation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs,

- T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 440–447.
- [92] Horn, J. (7-11 July, 2007) Optimal nesting of species for exact cover of resources: two against many. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 448-455.
- [93] Li, R., Bhanu, B., and Krawiec, K. (7-11 July, 2007) Hybrid coevolutionary algorithms vs. SVM algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 456–463.
- [94] Lichodzijewski, P. and Heywood, M. I. (7-11 July, 2007) Pareto-coevolutionary genetic programming for problem decomposition in multi-class classification. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 464–471.
- [95] Stone, C., Toth, R., Adamatzky, A., de Lacy Costello, B., and Bull, L. (7-11 July, 2007) Towards the coevolution of cellular automata controllers for chemical computing with the B-Z reaction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 472–478.
- [96] Yo, T.-S. and de Jong, E. D. (7-11 July, 2007) A comparison of evaluation methods in coevolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 479–487.
- [97] Au, C.-K. and Leung, H.-F. (7-11 July, 2007) Guided mutations in cooperative coevolutionary algorithms for function optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 488–488.
- [98] Li, R., Bhanu, B., and Krawiec, K. (7-11 July, 2007) On the number of subpopulations in coevolutionary computation: a database application. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 489–489.
- [99] Ottino-Loffler, J., Rand, W., and Wilensky, U. (7-11 July, 2007) A spatial model of the red queen effect. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann,

- F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 490–491.
- [100] Bosman, P. A. N., Grahl, J., and Rothlauf, F. (7-11 July, 2007) SDR: a better trigger for adaptive variance scaling in normal EDAs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 492–499.
- [101] Bosman, P. A. N. and Thierens, D. (7-11 July, 2007) Adaptive variance scaling in continuous multi-objective estimation-of-distribution algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 500–507.
- [102] Branke, J., Lode, C., and Shapiro, J. L. (7-11 July, 2007) Addressing sampling errors and diversity loss in UMDA. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 508-515.
- [103] Grahl, J., Bosman, P. A. N., and Minner, S. (7-11 July, 2007) Convergence phases, variance trajectories, and runtime analysis of continuous EDAs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 516–522.
- [104] Hauschild, M., Pelikan, M., Lima, C. F., and Sastry, K. (7-11 July, 2007) Analyzing probabilistic models in hierarchical BOA on traps and spin glasses. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 523–530.
- [105] Lipinski, P. (7-11 July, 2007) ECGA vs. BOA in discovering stock market trading experts. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 531–538.
- [106] Looks, M. (7-11 July, 2007) Scalable estimation-of-distribution program evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 539–546.
- [107] Pelikan, M., Kalapala, R., and Hartmann, A. K. (7-11 July, 2007) Hybrid evolutionary algorithms on minimum vertex cover for random graphs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 547–554.

- [108] Pelikan, M. and Laury, Jr., J. D. (7-11 July, 2007) Order or not: does parallelization of model building in hBOA affect its scalability? In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 555-561.
- [109] Pošík, P. and Franc, V. (7-11 July, 2007) Estimation of fitness landscape contours in EAs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 562–569.
- [110] Salhi, A., Rodríguez, J. A. V., and Zhang, Q. (7-11 July, 2007) An estimation of distribution algorithm with guided mutation for a complex flow shop scheduling problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 570-576.
- [111] Sastry, K., Goldberg, D. E., and Llora, X. (7-11 July, 2007) Towards billion-bit optimization via a parallel estimation of distribution algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 577–584.
- [112] Shakya, S., Oliveira, F., and Owusu, G. (7-11 July, 2007) An application of EDA and GA to dynamic pricing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 585–592.
- [113] Ahn, C. W. and Ramakrishna, R. S. (7-11 July, 2007) Multiobjective real-coded bayesian optimization algorithmrevisited: diversity preservation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 593–600.
- [114] Yu, T.-L., Sastry, K., Goldberg, D. E., and Pelikan, M. (7-11 July, 2007) Population sizing for entropy-based model building in discrete estimation of distribution algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 601–608.
- [115] Cai, Y., Sun, X., Xu, H., and Jia, P. (7-11 July, 2007) Cross entropy and adaptive variance scaling in continuous EDA. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 609-616.
- [116] Zhou, A., Zhang, Q., Jin, Y., Sendhoff, B., and Tsang, E. (7-11 July, 2007) Global multiobjective optimization via estimation of distribution algorithm with biased initialization and crossover.

- In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 617–623.
- [117] Coffin, D. J. and Smith, R. E. (7-11 July, 2007) Why is parity hard for estimation of distribution algorithms?. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 624–624.
- [118] Heien, E. M., Hiroyasu, T., and Fujimoto, N. (7-11 July, 2007) Investigation of mutation operators for the bayesian optimization algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 625–625.
- [119] Looks, M. (7-11 July, 2007) Meta-optimizing semantic evolutionary search. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 626–626.
- [120] Nannen, V. and Eiben, A. E. (7-11 July, 2007) Variance reduction in meta-EDA. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 627–627.
- [121] Pelikan, M. and Hartmann, A. K. (7-11 July, 2007) Obtaining ground states of ising spin glasses via optimizing bonds instead of spins. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 628–628.
- [122] Pelikan, M., Tsutsui, S., and Kalapala, R. (7-11 July, 2007) Dependency trees, permutations, and quadratic assignment problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 629-629.
- [123] Rimcharoen, S., Sutivong, D., and Chongstitvatana, P. (7-11 July, 2007) A synthesis of optimal stopping time in compact genetic algorithm based on real options approach. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 630–630.
- [124] Schwarz, J., Jaros, J., and Ocenasek, J. (7-11 July, 2007) Migration of probabilistic models for island-based bivariate EDA algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F.,

- Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 631–631.
- [125] Wu, H. and Shapiro, J. L. (7-11 July, 2007) Parameter cross-validation and early-stopping in univariate marginal distribution algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 632–633.
- [126] Arnold, D. V. (7-11 July, 2007) On the use of evolution strategies for optimising certain positive definite quadratic forms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 634-641.
- [127] Ebner, M. (7-11 July, 2007) Estimating the spectral sensitivity of a digital sensor using calibration targets. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 642–649.
- [128] Hsieh, C.-T., Chen, C.-M., and ping Chen, Y. (7-11 July, 2007) Particle swarm guided evolution strategy. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 650–657.
- [129] Knight, J. N. and Lunacek, M. (7-11 July, 2007) Reducing the space-time complexity of the CMA-ES. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 658-665.
- [130] Kramer, O., Brügger, S., and Lazovic, D. (7-11 July, 2007) Sex and death: towards biologically inspired heuristics for constraint handling. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 666-673.
- [131] Kramer, O., Gloger, B., and Goebels, A. (7-11 July, 2007) An experimental analysis of evolution strategies and particle swarm optimisers using design of experiments. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 674–681.
- [132] Perez-Bellido, A. M., Salcedo-Sanz, S., Ortiz-Garcia, E. G., and Portilla-Figueras, A. (7-11 July, 2007) A hybrid evolutionary programming algorithm for spread spectrum radar polyphase codes design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.),

- GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 682–688.
- [133] Rönkkönen, J. I. and Lampinen, J. (7-11 July, 2007) An extended mutation concept for the local selection based differential evolution algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 689–696.
- [134] Rossi, C., Barrientos, A., and del Cerro, J. (7-11 July, 2007) Two adaptive mutation operators for optima tracking in dynamic optimization problems with evolution strategies. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 697-704.
- [135] Shir, O. M. and Bäck, T. (7-11 July, 2007) Performance analysis of niching algorithms based on derandomized-ES variants. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 705–712.
- [136] Shir, O. M. and Bäck, T. (7-11 July, 2007) The second harmonic generation case-study as a gateway for es to quantum control problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 713–721.
- [137] Gomez, J. C. and Fuentes, O. (7-11 July, 2007) Using evolution strategies for automatic extraction of parameters for stellar population synthesis of galaxy spectra from sdss. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 722–722.
- [138] Petrovic, P. (7-11 July, 2007) Strengths and weaknesses of FSA representation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 723–725.
- [139] Abido, M. A. (7-11 July, 2007) Two-level of nondominated solutions approach to multiobjective particle swarm optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 726–733.
- [140] Adra, S. F., Griffin, I., and Fleming, P. J. (7-11 July, 2007) An informed convergence accelerator for evolutionary multiobjective optimiser. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 734-740.

- [141] Aggarwal, V. and O'Reilly, U.-M. (7-11 July, 2007) COSMO: a correlation sensitive mutation operator for multi-objective optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 741–748.
- [142] Aguirre, H., Okazaki, H., and Fuwa, Y. (7-11 July, 2007) An evolutionary multiobjective approach to design highly non-linear Boolean functions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 749–756.
- [143] Becerra, R. L., Coello Coello, C. A., Hernández-Díaz, A. G., Caballero, R., and Molina, J. (7-11 July, 2007) Alternative techniques to solve hard multi-objective optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 757–754.
- [144] Brockhoff, D., Friedrich, T., Hebbinghaus, N., Klein, C., Neumann, F., and Zitzler, E. (7-11 July, 2007) Do additional objectives make a problem harder?. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 765-772.
- [145] Corne, D. W. and Knowles, J. D. (7-11 July, 2007) Techniques for highly multiobjective optimisation: some nondominated points are better than others. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 773–780.
- [146] Deb, K. and Kumar, A. (7-11 July, 2007) Interactive evolutionary multi-objective optimization and decision-making using reference direction method. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 781–788.
- [147] Ferreira, J. C., Fonseca, C. M., and Gaspar-Cunha, A. (7-11 July, 2007) Methodology to select solutions from the pareto-optimal set: a comparative study. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 789–796.
- [148] Friedrich, T., Hebbinghaus, N., Neumann, F., He, J., and Witt, C. (7-11 July, 2007) Approximating covering problems by randomized search heuristics using multi-objective models. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 797–804.

- [149] Grimme, C., Lepping, J., and Papaspyrou, A. (7-11 July, 2007) Exploring the behavior of building blocks for multi-objective variation operator design using predator-prey dynamics. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 805–812.
- [150] Harada, K., Sakuma, J., Kobayashi, S., and Ono, I. (7-11 July, 2007) Uniform sampling of local pareto-optimal solution curves by pareto path following and its applications in multi-objective GA. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 813–820.
- [151] Ho, N. B. and Tay, J. C. (7-11 July, 2007) Using evolutionary computation and local search to solve multi-objective flexible job shop problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 821–828.
- [152] Ishibuchi, H., Nojima, Y., Tsukamoto, N., and Ohara, K. (7-11 July, 2007) Effects of the use of non-geometric binary crossover on evolutionary multiobjective optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 829–836.
- [153] Johnson, M. D., Tauritz, D. R., and Wilkerson, R. W. (7-11 July, 2007) SNDL-MOEA: stored non-domination level MOEA. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 837–844.
- [154] Kirley, M. and Stewart, R. (7-11 July, 2007) An analysis of the effects of population structure on scalable multiobjective optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 845–852.
- [155] Koduru, P., Das, S., and Welch, S. M. (7-11 July, 2007) Multi-objective hybrid PSO using µ-fuzzy dominance. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 853–860.
- [156] Matake, N., Hiroyasu, T., Miki, M., and Senda, T. (7-11 July, 2007) Multiobjective clustering with automatic k-determination for large-scale data. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 861–868.

- [157] Mostaghim, S., Branke, J., and Schmeck, H. (7-11 July, 2007) Multi-objective particle swarm optimization on computer grids. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 869–875.
- [158] Nebro, A. J., Alba, E., Molina, G., Chicano, F., Luna, F., and Durillo, J. J. (7-11 July, 2007) Optimal antenna placement using a new multi-objective chc algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 876–883.
- [159] Rotar, C., Dumitrescu, D., and Lung, R. I. (7-11 July, 2007) Guided hyperplane evolutionary algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 884–891.
- [160] Schütze, O., Laumanns, M., Tantar, E., Coello Coello, C. A., and ghazali Talbi, E. (7-11 July, 2007) Convergence of stochastic search algorithms to gap-free pareto front approximations. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 892–901.
- [161] Bailey, B. W. and Raich, A. M. (7-11 July, 2007) Interactive multi-objective design of long-span trusses. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 902–902.
- [162] Borgulya, I. (7-11 July, 2007) An EC-memory based method for the multi-objective TSP. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 903–903.
- [163] Hiroyasu, T., Yoshii, K., and Miki, M. (7-11 July, 2007) Discussion of parallel model of multiobjective genetic algorithms on heterogeneous computational resources. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 904–904.
- [164] Kleeman, M. P., Lamont, G. B., Hopkinson, K. M., and Graham, S. R. (7-11 July, 2007) Multiobjective evolutionary algorithms for designing capacitated network centric communications. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 905–905.

- [165] León, C., Miranda, G., and Segura, C. (7-11 July, 2007) Parallel skeleton for multi-objective optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 906–906.
- [166] Li, X., Branke, J., and Kirley, M. (7-11 July, 2007) Performance measures and particle swarm methods for dynamic multi-objective optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 907–907.
- [167] Li, Z. and Rudolph, G. (7-11 July, 2007) A framework of quantum-inspired multi-objective evolutionary algorithms and its convergence condition. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 908–908.
- [168] Mansouri, S. A., Hendizadeh, S. H., and Salmasi, N. (7-11 July, 2007) Bicriteria two-machine flowshop scheduling using metaheuristics. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 909–909.
- [169] Mariano, C. E., Alcocer, V. H., and Morales, E. F. (7-11 July, 2007) Incremental refinement of solutions for multiple objective optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 910–910.
- [170] Martí, L., García, J., Berlanga, A., and Molina, J. M. (7-11 July, 2007) A cumulative evidential stopping criterion for multiobjective optimization evolutionary algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 911–911.
- [171] Vrajitoru, D. (7-11 July, 2007) Hybrid multiobjective optimization genetic algorithms for graph drawing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 912–912.
- [172] Wozniak, P. (7-11 July, 2007) Dimensionality reduction in evolutionary multiobjective design: case study. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 913–915.
- [173] Auger, A. and Teytaud, O. (7-11 July, 2007) Continuous lunches are free!. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs,

- T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 916–922.
- [174] Gong, T. and Tuson, A. L. (7-11 July, 2007) Enhanced forma analysis of permutation problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 923–930.
- [175] Jansen, T. and Theile, M. (7-11 July, 2007) Stability in the self-organized evolution of networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 931–938.
- [176] Jansen, T. and Weyland, D. (7-11 July, 2007) Analysis of evolutionary algorithms for the longest common subsequence problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 939-946.
- [177] Reichel, J. and Skutella, M. (7-11 July, 2007) Evolutionary algorithms and matroid optimization problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 947–954.
- [178] Teytaud, O. and Gelly, S. (7-11 July, 2007) DCMA: yet another derandomization in covariance-matrix-adaptation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 955–963.
- [179] Watkins, C. J. C. H. (7-11 July, 2007) The channel capacity of evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 964–965.
- [180] Clegg, K., Stepney, S., and Clarke, T. (7-11 July, 2007) Using feedback to regulate gene expression in a developmental control architecture. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 966–973.
- [181] D'Ambrosio, D. B. and Stanley, K. O. (7-11 July, 2007) A novel generative encoding for exploiting neural network sensor and output geometry. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 974–981.

- [182] Devert, A., Bredeche, N., and Schoenauer, M. (7-11 July, 2007) Robust multi-cellular developmental design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 982–989.
- [183] Downing, K. L. (7-11 July, 2007) Supplementing evolutionary developmental systems with abstract models of neurogenesis. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 990–996.
- [184] Gauci, J. and Stanley, K. (7-11 July, 2007) Generating large-scale neural networks through discovering geometric regularities. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 997–1004.
- [185] Grajdeanu, A. (7-11 July, 2007) Methods for open-box analysis in artificial development. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1005–1012.
- [186] Haddow, P. C. and Hoye, J. (7-11 July, 2007) Achieving a simple development model for 3D shapes: are chemicals necessary? In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1013–1020.
- [187] Harding, S. L., Miller, J. F., and Banzhaf, W. (7-11 July, 2007) Self-modifying cartesian genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1021–1028.
- [188] Kassahun, Y., Edgington, M., Metzen, J. H., Sommer, G., and Kirchner, F. (7-11 July, 2007) A common genetic encoding for both direct and indirect encodings of networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1029–1036.
- [189] Kowaliw, T., Grogono, P., and Kharma, N. (7-11 July, 2007) Environment as a spatial constraint on the growth of structural form. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1037–1044.
- [190] Reisinger, J. and Miikkulainen, R. (7-11 July, 2007) Acquiring evolvability through adaptive representations. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D.,

- Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1045–1052.
- [191] Wilson, G. and Heywood, M. (7-11 July, 2007) Learning recursive programs with cooperative coevolution of genetic code mapping and genotype. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1053–1061.
- [192] Chavoya, A. and Duthen, Y. (7-11 July, 2007) Use of a genetic algorithm to evolve an extended artificial regulatory network for cell pattern generation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1062–1062.
- [193] Rieffel, J., Lipson, H., and Valero-Cuevas, F. J. (7-11 July, 2007) Growing form-filling tensegrity structures using map L-systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1063–1063.
- [194] Yogev, O. and Antonsson, E. K. (7-11 July, 2007) Growth and development of continuous structures. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1064–1065.
- [195] Alba, E. and Chicano, F. (7-11 July, 2007) Finding safety errors with ACO. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1066–1073.
- [196] Ayari, K., Bouktif, S., and Antoniol, G. (7-11 July, 2007) Automatic mutation test input data generation via ant colony. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1074–1081.
- [197] Bryce, R. C. and Colbourn, C. J. (7-11 July, 2007) One-test-at-a-time heuristic search for interaction test suites. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1082–1089.
- [198] Di Penta, M., Canfora, G., Esposito, G., Mazza, V., and Bruno, M. (7-11 July, 2007) Search-based testing of service level agreements. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1090–1097.

- [199] Lakhotia, K., Harman, M., and McMinn, P. (7-11 July, 2007) A multi-objective approach to search-based test data generation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1098–1105.
- [200] Harman, M. and Tratt, L. (7-11 July, 2007) Pareto optimal search based refactoring at the design level. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1106–1113.
- [201] O'Keeffe, M. K. and Cinneide, M. O. (7-11 July, 2007) Getting the most from search-based refactoring. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1114–1120.
- [202] Windisch, A., Wappler, S., and Wegener, J. (7-11 July, 2007) Applying particle swarm optimization to software testing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1121–1128.
- [203] Zhang, Y., Harman, M., and Mansouri, S. A. (7-11 July, 2007) The multi-objective next release problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1129–1137.
- [204] de Abreu, B. T., Martins, E., and de Sousa, F. L. (7-11 July, 2007) Generalized extremal optimization: an attractive alternative for test data generation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1138–1138.
- [205] Kiper, J. D., Feather, M. S., and Richardson, J. (7-11 July, 2007) Optimizing the V&V process for critical systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1139–1139.
- [206] Liaskos, K., Roper, M., and Wood, M. (7-11 July, 2007) Investigating data-flow coverage of classes using evolutionary algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 1, pp. 1140–1140.
- [207] Liu, X., Wang, L., Zhu, X., Bai, Z., Zhang, M., and Liu, H. (7-11 July, 2007) Fitness calculation approach for nested if-else construct in evolutionary testing. In Thierens, D., Beyer, H.-G.,

- Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 1, pp. 1141–1141.
- [208] Alharbi, A., Rand, W., and Riolo, R. (7-11 July, 2007) The defined cliffs variant in dynamic environments: a case study using the shaky ladder hyperplane-defined functions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1158–1164.
- [209] Bosman, P. A. N. and Poutré, H. L. (7-11 July, 2007) Learning and anticipation in online dynamic optimization with evolutionary algorithms: the stochastic case. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1165–1172.
- [210] Chen, Y., Hu, J., Hirasawa, K., and Yu, S. (7-11 July, 2007) GARS: an improved genetic algorithm with reserve selection for global optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1173–1178.
- [211] Chiotis, T. and Clack, C. D. (7-11 July, 2007) Nonlinearity linkage detection for financial time series analysis. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1179–1186.
- [212] Deb, K., Sindhya, K., and Okabe, T. (7-11 July, 2007) Self-adaptive simulated binary crossover for real-parameter optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1187–1194.
- [213] de Melo, V. V., Delbem, A. C. B., Dorival Leao Pinto, J., and Federson, F. M. (7-11 July, 2007) Improving global numerical optimization using a search-space reduction algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1195–1202.
- [214] Doerr, B. and Johannsen, D. (7-11 July, 2007) Adjacency list matchings: an ideal genotype for cycle covers. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1203–1210.
- [215] Dong, H. and Liang, Y. (7-11 July, 2007) Genetic algorithms for large join query optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B.,

- Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 1211–1218.
- [216] Friedrich, T., Hebbinghaus, N., and Neumann, F. (7-11 July, 2007) Rigorous analyses of simple diversity mechanisms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1219–1225.
- [217] Gallardo, J. E., Cotta, C., and Fernandez, A. J. (7-11 July, 2007) A memetic algorithm for the low autocorrelation binary sequence problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1226–1233.
- [218] Garibay, O. O. and Wu, A. S. (7-11 July, 2007) Analyzing the effects of module encapsulation on search space bias. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1234–1241.
- [219] Hanada, Y., Hiroyasu, T., and Miki, M. (7-11 July, 2007) Genetic multi-step search in interpolation and extrapolation domain. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1242–1249.
- [220] Hippolyte, J.-L., Bloch, C., Chatonnay, P., Espanet, C., and Chamagne, D. (7-11 July, 2007) A self-adaptive multiagent evolutionary algorithm for electrical machine design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1250–1255.
- [221] Iclanzan, D. and Dumitrescu, D. (7-11 July, 2007) Overcoming hierarchical difficulty by hill-climbing the building block structure. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1256–1263.
- [222] Kabli, R., Herrmann, F., and McCall, J. (7-11 July, 2007) A chain-model genetic algorithm for Bayesian network structure learning. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1264–1271.
- [223] Kim, M., Aggarwal, V., O'Reilly, U.-M., and Medard, M. (7-11 July, 2007) A doubly distributed genetic algorithm for network coding. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson,

- R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1272–1279.
- [224] Li, Z. and Goodman, E. D. (7-11 July, 2007) Learning building block structure from crossover failure. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1280–1287.
- [225] Lim, D., Ong, Y.-S., Jin, Y., and Sendhoff, B. (7-11 July, 2007) A study on metamodeling techniques, ensembles, and multi-surrogates in evolutionary computation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1288–1295.
- [226] Lung, R. I. and Dumitrescu, D. (7-11 July, 2007) A new evolutionary model for detecting multiple optima. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1296–1303.
- [227] Mattiussi, C., Dürr, P., and Floreano, D. (7-11 July, 2007) Center of mass encoding: a self-adaptive representation with adjustable redundancy for real-valued parameters. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1304–1311.
- [228] Mills, R. and Watson, R. A. (7-11 July, 2007) Variable discrimination of crossover versus mutation using parameterized modular structure. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1312–1319.
- [229] Paulden, T. and Smith, D. K. (7-11 July, 2007) Some novel locality results for the blob code spanning tree representation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1320–1327.
- [230] Philemotte, C. and Bersini, H. (7-11 July, 2007) A gestalt genetic algorithm: less details for better search. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1328–1334.
- [231] Poli, R. and Vanneschi, L. (7-11 July, 2007) Fitness-proportional negative slope coefficient as a hardness measure for genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1335–1342.

- [232] Prugel-Bennett, A. (7-11 July, 2007) Finding critical backbone structures with genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1343–1348.
- [233] Qiu, Q., Burns, D., Mukre, P., and Wu, Q. (7-11 July, 2007) Hardware acceleration of multi-deme genetic algorithm for the application of DNA codeword searching. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1349–1356.
- [234] Rohlfshagen, P. and Bullinaria, J. A. (7-11 July, 2007) ExGA II: an improved exonic genetic algorithm for the multiple knapsack problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1357–1364.
- [235] Rohlfshagen, P. and Bullinaria, J. A. (7-11 July, 2007) A genetic algorithm with exon shuffling crossover for hard bin packing problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1365–1371.
- [236] Sakuma, J. and Kobayashi, S. (7-11 July, 2007) A genetic algorithm for privacy preserving combinatorial optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1372–1379.
- [237] Sastry, K. and Goldberg, D. E. (7-11 July, 2007) Let's get ready to rumble redux: crossover versus mutation head to head on exponentially scaled problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1380–1387.
- [238] Sastry, K., Pelikan, M., and Goldberg, D. E. (7-11 July, 2007) Empirical analysis of ideal recombination on random decomposable problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1388–1395.
- [239] Sato, Y., Yasuda, Y., and Goto, R. (7-11 July, 2007) Analysis of noisy time-series signals with GA involving viral infection with tropism. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1396–1403.
- [240] Schonfeld, J. (7-11 July, 2007) A study of mutational robustness as the product of evolutionary computation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D.,

- Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1404–1411.
- [241] Smith, J. E. (7-11 July, 2007) Credit assignment in adaptive memetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1412–1419.
- [242] Stoean, C. L., Preuss, M., Stoean, R., and Dumitrescu, D. (7-11 July, 2007) Disburdening the species conservation evolutionary algorithm of arguing with radii. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1420–1427.
- [243] Sutton, A. M., Lunacek, M., and Whitley, L. D. (7-11 July, 2007) Differential evolution and non-separability: using selective pressure to focus search. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1428–1435.
- [244] Toledo-Suárez, C. D., Valenzuela-Rendón, M., Terashima-Marín, H., and Uresti-Charre, E. (7-11 July, 2007) On the relativity in the assessment of blind optimization algorithms and the problem-algorithm coevolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1436–1443.
- [245] Tripp, H. and Palmer, P. (7-11 July, 2007) Distribution replacement: how survival of the worst can out perform survival of the fittest. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1444–1451.
- [246] Watson, R. A. and Jansen, T. (7-11 July, 2007) A building-block royal road where crossover is provably essential. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1452–1459.
- [247] Wickramasinghe, W. R. M. U. K., van Steen, M., and Eiben, A. E. (7-11 July, 2007) Peer-to-peer evolutionary algorithms with adaptive autonomous selection. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1460–1467.
- [248] Xie, H., Zhang, M., and Andreae, P. (7-11 July, 2007) Another investigation on tournament selection: modelling and visualisation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J.,

- Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1468–1475.
- [249] Yu, L., Zhou, J., Mabu, S., Hirasawa, K., Hu, J., and Markon, S. (7-11 July, 2007) Effects of passenger's arrival distribution to double-deck elevator group supervisory control systems using genetic network programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1476–1483.
- [250] Zhou, S., Sun, Z., and Heckendorn, R. B. (7-11 July, 2007) Extended probe method for linkage discovery over high-cardinality alphabets. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1484–1491.
- [251] Zilinskas, A. and Zilinskas, J. (7-11 July, 2007) Parallel genetic algorithm: assessment of performance in multidimensional scaling. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1492–1501.
- [252] Boulif, M. and Atif, K. (7-11 July, 2007) A fuzzy genetic algorithm for the dynamic cell formation problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1502–1502.
- [253] Chen, Y., Mabu, S., Hirasawa, K., and Hu, J. (7-11 July, 2007) Trading rules on stock markets using genetic network programming with sarsa learning. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1503–1503.
- [254] Correia, M. B. and Fonseca, C. M. (7-11 July, 2007) On the roles of redundancy and neutrality in evolutionary optimization: an experimental study. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1504–1504.
- [255] Drzadzewski, G. and Wineberg, M. (7-11 July, 2007) The effects of solution density in the search space on finding spatially robust solutions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1505–1505.
- [256] Eiben, A. E., Schoenauer, M., van Krevelen, D. W. F., Hobbelman, M. C., ten Hagen, M. A., and van het Schip, R. C. (7-11 July, 2007) Autonomous selection in evolutionary algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M.,

- Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1506–1506.
- [257] Fayek, M. B. E., Talaat, A. S., and Darwish, N. M. (7-11 July, 2007) Generating classification trees for small disjuncts using incremental gas. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1507–1507.
- [258] Galvan-Lopez, E. and Poli, R. (7-11 July, 2007) How and why a bit-wise neutrality with and without locality affects evolutionary search. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1508–1508.
- [259] Galvan-Lopez, E., Togelius, J., and Lucas, S. (7-11 July, 2007) Towards understanding the effects of neutrality on the sudoku problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1509–1509.
- [260] García-Nieto, J., Alba, E., and Chicano, F. (7-11 July, 2007) Using metaheuristic algorithms remotely via ROS. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1510–1510.
- [261] Gog, A., Dumitrescu, D., and Hirsbrunner, B. (7-11 July, 2007) Collaborative evolutionary algorithms for combinatorial optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1511–1511.
- [262] Gonzales, E., Shimada, K., Mabu, S., Hirasawa, K., and Hu, J. (7-11 July, 2007) Genetic network programming with parallel processing for association rule mining in large and dense databases. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1512–1512.
- [263] Graff, M., Poli, R., and Moraglio, A. (7-11 July, 2007) Linear selection. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1513–1513.
- [264] Graham, L. K., Christensen, S., and Oppacher, F. (7-11 July, 2007) A simple genetic algorithm for reducible complexity. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1514–1514.

- [265] Halavati, R., Shouraki, S. B., Jashmi, B. J., and Heravi, M. J. (7-11 July, 2007) Symbiotic tabu search. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1515–1515.
- [266] Halma, A. and Turk, R. (7-11 July, 2007) Adaptive markov recombination. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1516–1516.
- [267] Hamann, A. and Ernst, R. (7-11 July, 2007) Efficient priority optimization in complex distributed embedded systems through search space adaptation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1517–1517.
- [268] He, J. and Zhou, Y. (7-11 July, 2007) A comparison of GAs using penalizing infeasible solutions and repairing infeasible solutions on restrictive capacity knapsack problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1518–1518.
- [269] Hidalgo, J. I., de Vega, F. F., Lanchares, J., and Lombrana, D. (7-11 July, 2007) Is the island model fault tolerant?. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1519–1519.
- [270] Hwang, I., Kim, Y.-H., and Moon, B.-R. (7-11 July, 2007) Overcoming barriers by a cluster-moving genetic algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1520–1520.
- [271] Johnson, C. G. (7-11 July, 2007) A genetic algorithm for coverage problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1521–1521.
- [272] Kimbrough, S. O. and Wood, D. H. (7-11 July, 2007) On repair by binary interpolation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1522–1522.
- [273] Kramer, O. and Koch, P. (7-11 July, 2007) Self-adaptive partially mapped crossover. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr,

- B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 1523–1523.
- [274] Tiago Leit a., Pereira, F. B., Tavares, J., and Costa, E. (7-11 July, 2007) Niching techniques: a study on the cluster geometry optimization problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1524–1524.
- [275] Mbogho, A. J. W. and Scarlatos, L. L. (7-11 July, 2007) Genetic parameter tuning for reliable segmentation of colored visual tags. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1525–1525.
- [276] Merelo, J. J. and Cotta, C. (7-11 July, 2007) Who is the best connected EC researcher?. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1526–1526.
- [277] Mitchell, G., McMullin, B., Decraene, J., and Kelly, C. (7-11 July, 2007) Quality time tradeoff operator for designing efficient multi level genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1527–1527.
- [278] Payne, J. L. and Eppstein, M. J. (7-11 July, 2007) Why your mates shouldn't date. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1528–1528.
- [279] Pfeiffer, J. and Rothlauf, F. (7-11 July, 2007) Analysis of greedy heuristics and weight-coded eas for multidimensional knapsack problems and multi-unit combinatorial auctions. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1529–1529.
- [280] Anabela Sim o. and Costa, E. (7-11 July, 2007) VMEA: studies on replacing strategies and diversity in dynamic environments. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1530–1530.
- [281] Sondahl, F. and Rand, W. (7-11 July, 2007) Evolution of non-uniform cellular automata using a genetic algorithm: diversity and computation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller,

- J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 1531–1531.
- [282] Stanoyevitch, A. (7-11 July, 2007) Homogeneous genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1532–1532.
- [283] Tahera, K., Ibrahim, R. N., and Lochert, P. B. (7-11 July, 2007) Adopting dynamic operators in a genetic algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1533–1533.
- [284] Tengg, A., Klausner, A., and Rinner, B. (7-11 July, 2007) An improved genetic algorithm for task allocation in distributed embedded systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1534–1534.
- [285] Ting, C.-K. (7-11 July, 2007) Multi-parent extension of edge recombination. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1535–1535.
- [286] Tucker, A., Swift, S., and Crampton, J. (7-11 July, 2007) Efficiency updates for the restricted growth function GA for grouping problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1536–1536.
- [287] Vieira, C. C. and Fonseca, C. M. (7-11 July, 2007) A unified model of optimisation problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1537–1537.
- [288] Wilke, D. N., Kok, S., and Groenwold, A. A. (7-11 July, 2007) Reference frame and scale invariant real-parameter genetic and differential evolution algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1538–1538.
- [289] Yoon, Y., Kim, Y.-H., Moraglio, A., and Moon, B.-R. (7-11 July, 2007) Geometric crossovers for real-code representation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1539–1539.

- [290] Zhou, S. and Sun, Z. (7-11 July, 2007) Matrix interpretation of generalized embedded landscape. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1540–1542.
- [291] Agapitos, A., Togelius, J., and Lucas, S. M. (7-11 July, 2007) Evolving controllers for simulated car racing using object oriented genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1543–1550.
- [292] Badran, K. M. S. and Rockett, P. I. (7-11 July, 2007) The roles of diversity preservation and mutation in preventing population collapse in multiobjective genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1551–1558.
- [293] Burke, E. K., Hyde, M. R., Kendall, G., and Woodward, J. (7-11 July, 2007) Automatic heuristic generation with genetic programming: evolving a jack-of-all-trades or a master of one. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1559–1565.
- [294] Chitty, D. M. (7-11 July, 2007) A data parallel approach to genetic programming using programmable graphics hardware. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1566–1573.
- [295] Christensen, S. and Oppacher, F. (7-11 July, 2007) Solving the artificial ant on the Santa Fe trail problem in 20,696 fitness evaluations. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1574–1579.
- [296] Clegg, J., Walker, J. A., and Miller, J. F. (7-11 July, 2007) A new crossover technique for Cartesian genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1580–1587.
- [297] Dignum, S. and Poli, R. (7-11 July, 2007) Generalisation of the limiting distribution of program sizes in tree-based genetic programming and analysis of its effects on bloat. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1588–1595.

- [298] Drugowitsch, J. and Barry, A. M. (7-11 July, 2007) Mixing independent classifiers. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1596–1603.
- [299] Hirsch, L., Hirsch, R., and Saeedi, M. (7-11 July, 2007) Evolving Lucene search queries for text classification. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1604–1611.
- [300] Jackson, D. (7-11 July, 2007) Hierarchical genetic programming based on test input subsets. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1612–1619.
- [301] Jaskowski, W., Krawiec, K., and Wieloch, B. (7-11 July, 2007) Genetic programming for cross-task knowledge sharing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1620–1627.
- [302] Klein, J. and Spector, L. (7-11 July, 2007) Unwitting distributed genetic programming via asynchronous JavaScript and XML. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1628–1635.
- [303] Looks, M. (7-11 July, 2007) On the behavioral diversity of random programs. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1636–1642.
- [304] Luthi, L., Tomassini, M., Giacobini, M., and Langdon, W. B. (7-11 July, 2007) The genetic programming collaboration network and its communities. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1643–1650.
- [305] Majeed, H. and Ryan, C. (7-11 July, 2007) Context-aware mutation: a modular, context aware mutation operator for genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1651–1658.
- [306] Majeed, H. and Ryan, C. (7-11 July, 2007) On the constructiveness of context-aware crossover. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M.,

- Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1659–1666.
- [307] Muntean, O., Diosan, L., and Oltean, M. (7-11 July, 2007) Best SubTree genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1667–1673.
- [308] Schmidt, M. and Lipson, H. (7-11 July, 2007) Comparison of tree and graph encodings as function of problem complexity. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1674–1679.
- [309] Schmidt, M. D. and Lipson, H. (7-11 July, 2007) Learning noise. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1680–1685.
- [310] Shirakawa, S., Ogino, S., and Nagao, T. (7-11 July, 2007) Graph structured program evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1686–1693.
- [311] Smith, M. and Bull, L. (7-11 July, 2007) Improving the human readability of features constructed by genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1694–1701.
- [312] Sullivan, K. M. and Luke, S. (7-11 July, 2007) Evolving kernels for support vector machine classification. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1702–1707.
- [313] Thomason, R. and Soule, T. (7-11 July, 2007) Novel ways of improving cooperation and performance in ensemble classifiers. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1708–1715.
- [314] Walker, M., Edwards, H., and Messom, C. (7-11 July, 2007) The reliability of confidence intervals for computational effort comparisons. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1716–1723.

- [315] Walker, J. A. and Miller, J. F. (7-11 July, 2007) Solving real-valued optimisation problems using cartesian genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1724–1730.
- [316] Woolley, B. G. and Peterson, G. L. (7-11 July, 2007) Genetic evolution of hierarchical behavior structures. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1731–1738.
- [317] Xie, H., Zhang, M., and Andreae, P. (7-11 July, 2007) An analysis of constructive crossover and selection pressure in genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1739–1748.
- [318] Bader-El-Den, M. B. and Poli, R. (7-11 July, 2007) A GP-based hyper-heuristic framework for evolving 3-SAT heuristics. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1749–1749.
- [319] Cai, X., Welch, S. M., Koduru, P., and Das, S. (7-11 July, 2007) Discovering structures in gene regulatory networks using genetic programming and particle swarms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1750–1750.
- [320] Folino, G., Pizzuti, C., and Spezzano, G. (7-11 July, 2007) StreamGP: tracking evolving GP ensembles in distributed data streams using fractal dimension. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1751–1751.
- [321] Gonzalez, D. L. and de Vega, F. F. (7-11 July, 2007) Dynamic populations and length evolution: key factors for analyzing fault tolerance on parallel genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1752–1752.
- [322] Keller, R. E. and Poli, R. (7-11 July, 2007) Linear genetic programming of metaheuristics. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1753–1753.

- [323] Miki, M., Hashimoto, M., and Fujita, Y. (7-11 July, 2007) Program search with simulated annealing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1754–1754.
- [324] Murphy, G. and Ryan, C. (7-11 July, 2007) Seeding methods for run transferable libraries. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1755–1755.
- [325] Radi, A. M. and El-Bakry, S. Y. (7-11 July, 2007) Genetic programming approach for positron collisions with alkali-metal atom. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1756–1756.
- [326] Solano, M. and Jonyer, I. (7-11 July, 2007) Towards an optimal restart strategy for genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1757–1757.
- [327] Taboada, K., Shimada, K., Mabu, S., Hirasawa, K., and Hu, J. (7-11 July, 2007) Association rule mining for continuous attributes using genetic network programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1758–1758.
- [328] Vanneschi, L., Rochat, D., and Tomassini, M. (7-11 July, 2007) Multi-optimization improves genetic programming generalization ability. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1759–1759.
- [329] Walker, M., Edwards, H., and Messom, C. (7-11 July, 2007) "Success effort"for performance comparisons. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1760–1760.
- [330] Wong, P. L.-M. and Zhang, M. (7-11 July, 2007) Numerical-node building block analysis of genetic programming with simplification. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1761–1761.
- [331] Wyns, B. and Boullart, L. (7-11 July, 2007) Adaptive strategies for a semantically driven tree optimizer to control code growth. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark,

- J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 1762–1762.
- [332] Wyns, B., Boullart, L., and De Smedt, P. J. (7-11 July, 2007) Limiting code growth to improve robustness in tree-based genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1763–1763.
- [333] Ando, S. (7-11 July, 2007) Heuristic speciation for evolving neural network ensemble. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1766–1773.
- [334] Brown, G., Kovacs, T., and Marshall, J. A. R. (7-11 July, 2007) UCSpv: principled voting in UCS rule populations. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1774–1781.
- [335] Gagné, C., Sebag, M., Schoenauer, M., and Tomassini, M. (7-11 July, 2007) Ensemble learning for free with evolutionary algorithms? In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1782–1789.
- [336] Jaskowski, W., Krawiec, K., and Wieloch, B. (7-11 July, 2007) Knowledge reuse in genetic programming applied to visual learning. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1790–1797.
- [337] Llorà, X., Sastry, K., Yu, T.-L., and Goldberg, D. E. (7-11 July, 2007) Do not match, inherit: fitness surrogates for genetics-based machine learning techniques. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1798–1805.
- [338] Loiacono, D., Marelli, A., and Lanzi, P. L. (7-11 July, 2007) Support vector regression for classifier prediction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1806–1813.
- [339] Lanzi, P. L., Butz, M. V., and Goldberg, D. E. (7-11 July, 2007) Empirical analysis of generalization and learning in XCS with gradient descent. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle,

- T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1814–1821.
- [340] Lanzi, P. L. and Loiacono, D. (7-11 July, 2007) Classifier systems that compute action mappings. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1822–1829.
- [341] Mierswa, I. (7-11 July, 2007) Controlling overfitting with multi-objective support vector machines. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1830–1837.
- [342] Orriols-Puig, A., Goldberg, D. E., Sastry, K., and Bernadó-Mansilla, E. (7-11 July, 2007) Modeling XCS in class imbalances: population size and parameter settings. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1838–1845.
- [343] Orriols-Puig, A., Sastry, K., Lanzi, P. L., Goldberg, D. E., and Bernadó-Mansilla, E. (7-11 July, 2007) Modeling selection pressure in XCS for proportionate and tournament selection. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1846–1853.
- [344] Tamee, K., Bull, L., and Pinngern, O. (7-11 July, 2007) Towards clustering with XCS. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1854–1860.
- [345] Tran, H. T., Sanza, C., Duthen, Y., and Nguyen, T. D. (7-11 July, 2007) XCSF with computed continuous action. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1861–1869.
- [346] Cattral, R. and Oppacher, F. (7-11 July, 2007) Discovering rules in the poker hand dataset. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1870–1870.
- [347] Chen, H.-W. and ping Chen, Y. (7-11 July, 2007) Introducing fault tolerance to XCS. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1871–1871.

- [348] DeHaas, D., Craig, J., Rickert, C., Eppstein, M. J., Haake, P., and Stor, K. (7-11 July, 2007) Feature selection and classification in noisy epistatic problems using a hybrid evolutionary approach. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1872–1872.
- [349] Diosan, L., Oltean, M., Rogozan, A., and Pecuchet, J. P. (7-11 July, 2007) Genetically designed multiple-kernels for improving the SVM performance. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1873–1873.
- [350] Gandhe, A., Yu, S.-H., Mehra, R., and Smith, R. E. (7-11 July, 2007) Fused, multi-spectral automatic target recognition with XCS. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1874–1874.
- [351] Shafti, L. S. and Pérez, E. (7-11 July, 2007) MDL-based fitness for feature construction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1875–1875.
- [352] Shankar, A., Louis, S. J., Dascalu, S., Houmanfar, R., and Hayes, L. J. (7-11 July, 2007) XCS for adaptive user-interfaces. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1876–1876.
- [353] Smith, R. E. and Jiang, M. K. (7-11 July, 2007) MILCS: a mutual information learning classifier system. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1877–1877.
- [354] Achiche, S., Wang, W., Fan, Z., Ozkil, A., Sorensen, T., Wang, J., and Goodman, E. (7-11 July, 2007) Genetically generated double-level fuzzy controller with a fuzzy adjustment strategy. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1880–1887.
- [355] Agogino, A. and Tumer, K. (7-11 July, 2007) Evolving distributed agents for managing air traffic. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1888–1895.
- [356] Araujo, L. and Merelo, J. J. (7-11 July, 2007) A genetic algorithm for dynamic modelling and prediction of activity in document streams. In Thierens, D., Beyer, H.-G., Bongard, J., Branke,

- J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1896–1903.
- [357] Banerjee, N. and Kumar, R. (7-11 July, 2007) Multiobjective network design for realistic traffic models. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1904–1911.
- [358] Bolzani, L., Sanchez, E., Schillaci, M., and Squillero, G. (7-11 July, 2007) Coupling EA and high-level metrics for the automatic generation of test blocks for peripheral cores. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1912–1919.
- [359] Chen, C.-H. and ping Chen, Y. (7-11 July, 2007) Real-coded ECGA for economic dispatch. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1920–1927.
- [360] Chen, J.-H. (7-11 July, 2007) Simultaneous optimization of production planning and inspection planning for flexible manufacturing systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1928–1935.
- [361] Choo, C. S., Chua, C. L., and Tay, S.-H. V. (7-11 July, 2007) Automated red teaming: a proposed framework for military application. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1936–1942.
- [362] Demir, G. N., Uyar, A. S., and Ögüdücü, S. G. (7-11 July, 2007) Graph-based sequence clustering through multiobjective evolutionary algorithms for web recommender systems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1943–1950.
- [363] Doherty, D. and O'Riordan, C. (7-11 July, 2007) A phenotypic analysis of GP-evolved team behaviours. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1951–1958.
- [364] Reis, G. and Fernandez Vega, F. (7-11 July, 2007) Electronic synthesis using genetic algorithms for automatic music transcription. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore,

- J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 1959–1966.
- [365] Dragoni, M. and Tettamanzi, A. G. B. (7-11 July, 2007) Evolutionary algorithms for reasoning in fuzzy description logics with fuzzy quantifiers. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1967–1974.
- [366] Esparcia-Alcazar, A. I., Lluch-Revert, L., Cardos, M., Sharman, K., and Merelo, J. J. (7-11 July, 2007) Configuring an evolutionary tool for the inventory and transportation problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1975–1982.
- [367] Fan, K., Brabazon, A., O'Sullivan, C., and O'Neill, M. (7-11 July, 2007) Option pricing model calibration using a real-valued quantum-inspired evolutionary algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1983–1990.
- [368] Förster, M., Bickel, B., Hardung, B., and Kókai, G. (7-11 July, 2007) Self-adaptive ant colony optimisation applied to function allocation in vehicle networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1991–1998.
- [369] Francone, F. D., Deschaine, L. M., and Warren, J. J. (7-11 July, 2007) Discrimination of munitions and explosives of concern at F.E. Warren AFB using linear genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 1999–2006.
- [370] Geremia, P., Poian, M., and Poles, S. (7-11 July, 2007) Genetic optimization for yacht design. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2007–2012.
- [371] Hanna, S. (7-11 July, 2007) Defining implicit objective functions for design problems. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2013–2020.
- [372] Hoverstad, B. A. (7-11 July, 2007) Revisiting the personal satellite assistant: neuroevolution with a modified enforced sub-populations algorithm. In Thierens, D., Beyer, H.-G., Bongard, J.,

- Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2021–2028.
- [373] Hung, P.-C., ping Chen, Y., and Zan, H. W. (7-11 July, 2007) Characteristic determination for solid state devices with evolutionary computation: a case study. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2029–2036.
- [374] Jaros, J., Ohlidal, M., and Dvorak, V. (7-11 July, 2007) An evolutionary approach to collective communication scheduling. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2037–2044.
- [375] Jenabi, M., Torabi, S. A., and Mansouri, S. A. (7-11 July, 2007) A hybrid GA for a supply chain production planning problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2045–2052.
- [376] Joost, R. and Salomon, R. (7-11 July, 2007) High quality offset printing: an evolutionary approach. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2053–2058.
- [377] Jursa, R. (7-11 July, 2007) Variable selection for wind power prediction using particle swarm optimization. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2059–2065.
- [378] Kharbat, F., Bull, L., and Odeh, M. (7-11 July, 2007) Mining breast cancer data with XCS. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2066–2073.
- [379] Koza, J. R., Al-Sakran, S. H., Jones, L. W., and Manassero, G. (7-11 July, 2007) Automated synthesis of a fixed-length loaded symmetric dipole antenna whose gain exceeds that of a commercial antenna and matches the theoretical maximum. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2074–2081.
- [380] Lange, R. C. and Mancoridis, S. (7-11 July, 2007) Using code metric histograms and genetic algorithms to perform author identification for software forensics. In Thierens, D., Beyer, H.-G.,

- Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 2082–2089.
- [381] Lee, J.-W., Choi, S.-S., and Moon, B.-R. (7-11 July, 2007) An evolutionary keystroke authentication based on ellipsoidal hypothesis space. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2090–2097.
- [382] Llorà, X., Reddy, R., Matesic, B., and Bhargava, R. (7-11 July, 2007) Towards better than human capability in diagnosing prostate cancer using infrared spectroscopic imaging. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2098–2105.
- [383] Lockett, A. J., Chen, C. L., and Miikkulainen, R. (7-11 July, 2007) Evolving explicit opponent models in game playing. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2106–2113.
- [384] McCubbin, C., Scheidt, D., Bandte, O., Marshall, S., and Trifonov, I. (7-11 July, 2007) Using genetic algorithms for naval subsystem damage assessment and design improvements. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2114–2121.
- [385] Mehnen, J., Roy, R., Kersting, P., and Wagner, T. (7-11 July, 2007) ICSPEA: evolutionary five-axis milling path optimisation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2122–2128.
- [386] Odeh, O., Koduru, P., Das, S., Featherstone, A. M., and Welch, S. M. (7-11 July, 2007) A multiobjective approach for the prediction of loan defaults. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2129–2136.
- [387] Peterson, M. R., Lamont, G. B., Moore, F., and Marshall, P. (7-11 July, 2007) Targeted filter evolution for improved image reconstruction resolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2137–2144.
- [388] Powell, D. and Hollingsworth, J. (7-11 July, 2007) A NSGA-II, web-enabled, parallel optimization framework for NLP and MINLP. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark,

- J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 2145–2150.
- [389] Quiroz, J. C., Louis, S. J., and Dascalu, S. M. (7-11 July, 2007) Interactive evolution of XUL user interfaces. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2151–2158.
- [390] Ramirez, R. and Hazan, A. (7-11 July, 2007) Inducing a generative expressive performance model using a sequential-covering genetic algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2159–2166.
- [391] Sullivan, J. and Ryan, C. (7-11 July, 2007) A destructive evolutionary process: a pilot implementation. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2167–2173.
- [392] Swift, S., Tucker, A., Crampton, J., and Garway-Heath, D. (7-11 July, 2007) An improved restricted growth function genetic algorithm for the consensus clustering of retinal nerve fibre data. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2174–2181.
- [393] Terashima-Marin, H., Zarate, C. J. F., Ross, P., and Valenzuela-Rendon, M. (7-11 July, 2007) Comparing two models to generate hyper-heuristics for the 2d-regular bin-packing problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2182–2189.
- [394] Thangavelu, R. and Pradeep, S. (7-11 July, 2007) An online implementable differential evolution tuned optimal guidance law. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2190–2194.
- [395] Wagner, T., Michelitsch, T., and Sacharow, A. (7-11 July, 2007) On the design of optimisers for surface reconstruction. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2195–2202.
- [396] Wang, C.-W., Sun, L.-M., Jin, M.-H., Fu, C.-J., Liu, L., Chan, C.-H., and Kao, C.-Y. (7-11 July, 2007) A genetic algorithm for resident physician scheduling problem. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs,

- T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 2203–2210.
- [397] Wang, J., Jing, N., Li, J., and Chen, Z. H. (7-11 July, 2007) A multi-objective imaging scheduling approach for earth observing satellites. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2211–2218.
- [398] Wedge, D. C., Gaskell, S. J., Hubbard, S. J., Kell, D. B., Lau, K. W., and Eyers, C. (7-11 July, 2007) Peptide detectability following ESI mass spectrometry: prediction using genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2219–2225.
- [399] Yan, W. and Clack, C. D. (7-11 July, 2007) Diverse committees vote for dependable profits. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2226–2233.
- [400] Yan, W. and Clack, C. D. (7-11 July, 2007) Evolving robust GP solutions for hedge fund stock selection in emerging markets. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2234–2241.
- [401] Zinchenko, L., Radecker, M., and Bisogno, F. (7-11 July, 2007) Multi-objective univariate marginal distribution optimisation of mixed analogue-digital signal circuits. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2242–2251.
- [402] Azzini, A. and Tettamanzi, A. G. B. (7-11 July, 2007) Automated trading on financial instruments with evolved neural networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2252–2252.
- [403] Cebrian, M., Alfonseca, M., and Ortega, A. (7-11 July, 2007) Automatic generation of benchmarks for plagiarism detection tools using grammatical evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2253–2253.
- [404] Costelloe, D. and Ryan, C. (7-11 July, 2007) Towards models of user preferences in interactive musical evolution. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D.,

- Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2254–2254.
- [405] Cummins, R. and O'Riordan, C. (7-11 July, 2007) Using genetic programming for information retrieval: local and global query expansion. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2255–2255.
- [406] Danoy, G., Alba, E., Bouvry, P., and Brust, M. (7-11 July, 2007) Optimal design of ad hoc injection networks by using genetic algorithms. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2256–2256.
- [407] Duke, J. and Clack, C. D. (7-11 July, 2007) Using an evolutionary agent-based simulation to explore hedging pressure in futures markets. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2257–2257.
- [408] Isaacs, J. C., Foo, S., and Meyer-Baese, A. (7-11 July, 2007) Evolutionary computation-based kernel optimal component analysis for pattern recognition. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2258–2258.
- [409] Kumar, R. and Singh, P. K. (7-11 July, 2007) On quality performance of heuristic and evolutionary algorithms for biobjective minimum spanning trees. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2259–2259.
- [410] Lai, C.-C., Ting, C.-K., and Ko, R.-S. (7-11 July, 2007) An effective genetic algorithm for improving wireless sensor network lifetime. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2260–2260.
- [411] Lourenço, N. C. and Horta, N. C. (7-11 July, 2007) Automatic analog IC layout generation based on a evolutionary computation approach. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2261–2261.
- [412] Ma, I., Wong, T., and Sankar, T. (7-11 July, 2007) Volatility forecasting using time series data mining and evolutionary computation techniques. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S.,

- Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, London: ACM Press Vol. 2, pp. 2262–2262.
- [413] Mabu, S., Chen, Y., Hirasawa, K., and Hu, J. (7-11 July, 2007) Genetic network programming with actor-critic and its application to stock trading model. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2263–2263.
- [414] Oranchak, D. (7-11 July, 2007) Evolutionary synthesis of photographic artwork using human fitness function derived from web-based social networks. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2264–2264.
- [415] Sekaj, I., Perkacz, J., and Palenik, T. (7-11 July, 2007) Controller design based on genetic programming. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2265–2265.
- [416] Shir, O. M., Bäck, T., and Vrakking, M. J. J. (7-11 July, 2007) On the scalability of evolution strategies in the optimization of dynamic molecular alignment. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2266–2266.
- [417] Tufail, M. and Ormsbee, L. E. (7-11 July, 2007) Genetic algorithms for water quality management in an urban watershed. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2267–2267.
- [418] Turner, C. J. and Tiwari, A. (7-11 July, 2007) An experimental evaluation of genetic process mining. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2268–2268.
- [419] Urquhart, N. B. (7-11 July, 2007) Carbon-friendly travel plan construction using an evolutionary algorithm. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., (eds.), GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation, London: ACM Press Vol. 2, pp. 2269–2269.