

## 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*. ACM Press, London, UK (2007)
- [2] Abraham, A., Das, S., and Konar, A.: 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*, vol. 1, 2–9. ACM Press, London (2007)
- [3] Alba, E. and Chicano, F.: 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*, vol. 1, 10–17. ACM Press, London (2007)
- [4] Bird, S. and Li, X.: 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*, vol. 1, 18–25. ACM Press, London (2007)
- [5] Cayzer, S. and Sullivan, J.: 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*, vol. 1, 26–32. ACM Press, London (2007)
- [6] Doerr, B., Neumann, F., Sudholt, D., and Witt, C.: 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*, vol. 1, 33–40. ACM Press, London (2007)
- [7] Fernandes, C. M., Rosa, A. C., and Ramos, V.: 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*, vol. 1, 41–48. ACM Press, London (2007)
- [8] Greensmith, J. and Aickelin, U.: 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*, vol. 1, 49–56. ACM Press, London (2007)
- [9] Halavati, R., Shouraki, S. B., Heravi, M. J., and Jashmi, B. J.: 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*, vol. 1, 57–62. ACM Press, London (2007)
- [10] Khan, A. A., Naeem, M., and Shah, S. I.: 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*, vol. 1, 63–69. ACM Press, London (2007)
  - [11] Koduru, P., Welch, S. M., and Das, S.: 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*, vol. 1, 70–77. ACM Press, London (2007)
  - [12] Li, X.: 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*, vol. 1, 78–85. ACM Press, London (2007)
  - [13] Luke, S., Sharma, D., and Balan, G. C.: 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*, vol. 1, 86–93. ACM Press, London (2007)
  - [14] Luna, F., Blum, C., Alba, E., and Nebro, A. J.: 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*, vol. 1, 94–101. ACM Press, London (2007)
  - [15] Mazhar, N. and Farooq, M.: 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*, vol. 1, 102–109. ACM Press, London (2007)
  - [16] Mohais, A. S., Mohais, R., Ward, C., and Posthoff, C.: 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*, vol. 1, 110–117. ACM Press, London (2007)
  - [17] Moraglio, A. and Togelius, J.: 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*, vol. 1, 118–125. ACM Press, London (2007)

- [18] Pan, Q.-Q., Tasgetiren, M. F., and Liang, Y.-C.: 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*, vol. 1, 126–133. ACM Press, London (2007)
- [19] Poli, R. and Broomhead, D.: 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*, vol. 1, 134–141. ACM Press, London (2007)
- [20] Poli, R. and Langdon, W. B.: 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*, vol. 1, 142–149. ACM Press, London (2007)
- [21] Ridge, E. and Kudenko, D.: 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*, vol. 1, 150–157. ACM Press, London (2007)
- [22] Tasgetiren, M. F., Suganthan, P. N., and Pan, Q.-Q.: 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*, vol. 1, 158–167. ACM Press, London (2007)
- [23] Anastasiadis, A. D., Georgoulas, G., Magoulas, G., and Tzes, A.: 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*, vol. 1, 168–168. ACM Press, London (2007)
- [24] Baig, A. R. and Rashid, M.: 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*, vol. 1, 169–169. ACM Press, London (2007)
- [25] de Freitas, A. A. and Mayer, C. B.: 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*, vol. 1, 170–170. ACM Press, London (2007)
- [26] Figueredo, G. P., Ebecken, N. F., and Barbosa, H. C.: Suppression based immune mechanism to find arepresentative 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*, vol. 1, 171–171. ACM Press, London (2007)
- [27] Gong, T. and Tuson, A. L.: 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*, vol. 1, 172–172. ACM Press, London (2007)
- [28] Nguyen, X. H., Nguyen, Q. U., and McKay, R. I.: 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*, vol. 1, 173–173. ACM Press, London (2007)
- [29] Lam, H. T., Nicolaevna, P. N., and Quan, N. T. M.: 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*, vol. 1, 174–174. ACM Press, London (2007)
- [30] Lavagna, M. R.: 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*, vol. 1, 175–175. ACM Press, London (2007)
- [31] Manuel López-Ibá n., Prasad, T. D., and Paechter, B.: 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*, vol. 1, 176–176. ACM Press, London (2007)
- [32] McNabb, A. W., Monson, C. K., and Seppi, K. D.: 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*, vol. 1, 177–177. ACM Press, London (2007)
- [33] Pellegrini, P. and Moretti, E.: 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*, vol. 1, 178–178. ACM Press, London (2007)
- [34] Piccand, S., O'Neill, M., and Walker, J.: 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*, vol. 1, 179–179. ACM Press, London (2007)

- [35] Ridge, E. and Kudenko, D.: 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*, vol. 1, 180–180. ACM Press, London (2007)
- [36] Romero, A. and Nino, F.: 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*, vol. 1, 181–181. ACM Press, London (2007)
- [37] Shafiq, M. Z., Kiani, M., Hashmi, B., and Farooq, M.: 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*, vol. 1, 182–182. ACM Press, London (2007)
- [38] Snyman, J. A. and Kok, S.: 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*, vol. 1, 183–183. ACM Press, London (2007)
- [39] Stewart, R. L. and Kirley, M.: 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*, vol. 1, 184–184. ACM Press, London (2007)
- [40] Wang, J. and Zhou, Y.: 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*, vol. 1, 185–185. ACM Press, London (2007)
- [41] Zeng, Y., H, J. C., and Buus, D. P.: 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*, vol. 1, 186–186. ACM Press, London (2007)
- [42] Zuo, X.: 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*, vol. 1, 187–187. ACM Press, London (2007)
- [43] Becker, J., Trendelenburg, S., Henrici, F., and Manoli, Y.: 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*, vol. 1, 190–197. ACM Press, London (2007)
- [44] Bongard, J.: 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*, vol. 1, 198–205. ACM Press, London (2007)
  - [45] Contreras, E. B.: 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*, vol. 1, 206–213. ACM Press, London (2007)
  - [46] Bongard, J.: 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*, vol. 1, 214–221. ACM Press, London (2007)
  - [47] Bullinaria, J. A.: 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*, vol. 1, 222–229. ACM Press, London (2007)
  - [48] Di Chio, C., Poli, R., and Di Chio, P.: 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*, vol. 1, 230–237. ACM Press, London (2007)
  - [49] Estévez, N. S. and Lipson, H.: 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*, vol. 1, 238–244. ACM Press, London (2007)
  - [50] Gajda, Z. and Sakanina, L.: 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*, vol. 1, 245–252. ACM Press, London (2007)
  - [51] Gotshall, S. P. and Soule, T.: 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*, vol. 1, 253–260. ACM Press, London (2007)
  - [52] Gui, M., Das, S., and Pahwa, A.: 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*, vol. 1, 261–268. ACM Press, London (2007)
- [53] Khan, G. M., Miller, J. F., and Halliday, D. M.: 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*, vol. 1, 269–276. ACM Press, London (2007)
- [54] Khor, S.: 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*, vol. 1, 277–284. ACM Press, London (2007)
- [55] Kim, D.: 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*, vol. 1, 285–292. ACM Press, London (2007)
- [56] Knoester, D. B., McKinley, P. K., and Ofria, C. A.: 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*, vol. 1, 293–300. ACM Press, London (2007)
- [57] McCormack, J.: 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*, vol. 1, 301–307. ACM Press, London (2007)
- [58] Payne, J. L. and Eppstein, M. J.: 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*, vol. 1, 308–315. ACM Press, London (2007)
- [59] Spector, L., Klein, J., and Feinstein, M.: 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*, vol. 1, 316–323. ACM Press, London (2007)
- [60] Togelius, J., De Nardi, R., Marques, H., Newcombe, R., Lucas, S. M., and Holland, O.: 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*, vol. 1, 324–333. ACM Press, London (2007)

- [61] Baddeley, B. and Philippides, A.: 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*, vol. 1, 334–334. ACM Press, London (2007)
- [62] Eiben, G., Bekker, J., Griffioen, R., and Haasdijk, E.: 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*, vol. 1, 335–335. ACM Press, London (2007)
- [63] Brodu, N.: 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*, vol. 1, 336–336. ACM Press, London (2007)
- [64] Curran, D., O’Riordan, C., and Sorensen, H.: 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*, vol. 1, 337–337. ACM Press, London (2007)
- [65] Curran, D., O’Riordan, C., and Sorensen, H.: 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*, vol. 1, 338–338. ACM Press, London (2007)
- [66] Hengjie, S., Chunyan, M., and Zhiqi, S.: Fuzzy cognitive map learning based on multi-objective 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*, vol. 1, 339–339. ACM Press, London (2007)
- [67] Kowall, C. A. and Krent, B. J.: 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*, vol. 1, 340–340. ACM Press, London (2007)
- [68] Nitschke, G. S., Schut, M. C., and Eiben, A. E.: 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*, vol. 1, 342–342. ACM Press, London (2007)
- [69] Powers, S. T. and Watson, R. A.: 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*, vol. 1, 343–343. ACM Press, London (2007)
- [70] Priesterjahn, S. and Weimer, A.: 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*, vol. 1, 344–345. ACM Press, London (2007)
- [71] Bacardit, J., Stout, M., Hirst, J. D., Sastry, K., Llorà, X., and Krasnogor, N.: 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*, vol. 1, 346–353. ACM Press, London (2007)
- [72] Bleuler, S. and Zitzler, E.: 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*, vol. 1, 354–360. ACM Press, London (2007)
- [73] Brookes, E. H. and Demeler, B.: 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*, vol. 1, 361–368. ACM Press, London (2007)
- [74] Bull, L. and Uroukov, I. S.: 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*, vol. 1, 369–376. ACM Press, London (2007)
- [75] Chan, T.-M., Leung, K.-S., and Lee, K.-H.: 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*, vol. 1, 377–384. ACM Press, London (2007)
- [76] Divina, F. and Aguilar-Ruiz, J. S.: 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*, vol. 1, 385–392. ACM Press, London (2007)
- [77] Torres, S. R. D., Romero, D. C. B., Vasquez, L. F. N., and Ardila, Y. J. P.: 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*, vol. 1, 393–400. ACM Press, London (2007)

- [78] Küçükkural, A., Yeniterzi, R., Yeniterzi, S., and Sezerman, O. U.: 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*, vol. 1, 401–406. ACM Press, London (2007)
- [79] Looks, M., Goertzel, B., de Souza Coelho, L., Mudado, M., and Pennachin, C.: Clustering gene expression data via mining ensembles of classification rules evolved using mooses. In Thierens, D., Beyer, H.-G., Bongard, J., Branke, J., Clark, J. A., Cliff, D., Congdon, C. B., Deb, K., Doerr, B., Kovacs, T., Kumar, S., Miller, J. F., Moore, J., Neumann, F., Pelikan, M., Poli, R., Sastry, K., Stanley, K. O., Stutzle, T., Watson, R. A., and Wegener, I., eds., *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, vol. 1, 407–414. ACM Press, London (2007)
- [80] Rocha, M., Mendes, R., Maia, P., Daniel Glez-Pe n., and Fdez-Riverola, F.: 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*, vol. 1, 415–423. ACM Press, London (2007)
- [81] Bazzoli, A., Colombo, G., and Tettamanzi, A. G. B.: 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*, vol. 1, 424–424. ACM Press, London (2007)
- [82] de Lima, T. W., Faccioli, R. A., Gabriel, P. H. R., Delbem, A. C. B., and Nunes da Silva, I.: 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*, vol. 1, 425–425. ACM Press, London (2007)
- [83] Fernando, C. T. and Rowe, J.: 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*, vol. 1, 426–426. ACM Press, London (2007)
- [84] García-Nieto, J., Alba, E., Jourdan, L., and Talbi, E.-G.: 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*, vol. 1, 427–427. ACM Press, London (2007)
- [85] Keedwell, E. and Narayanan, A.: 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*, vol. 1, 428–428. ACM Press, London (2007)

- [86] Latham, W., Shaw, M., Todd, S., and Leymarie, F. F.: 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*, vol. 1, 429–429. ACM Press, London (2007)
- [87] Looks, M., Goertzel, B., de Souza Coelho, L., Mudado, M., and Pennachin, C.: 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*, vol. 1, 430–430. ACM Press, London (2007)
- [88] Menolascina, F., Alves, R. T., Tommasi, S., Chiarappa, P., Delgado, M., Mastronardi, G., Paradiso, A., Freitas, A., and Bevilacqua, V.: 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*, vol. 1, 431–431. ACM Press, London (2007)
- [89] Moore, J. H., Barney, N., and White, B. C.: 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*, vol. 1, 432–433. ACM Press, London (2007)
- [90] Bucci, A. and Pollack, J. B.: 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*, vol. 1, 434–439. ACM Press, London (2007)
- [91] De Jong, E. D.: 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*, vol. 1, 440–447. ACM Press, London (2007)
- [92] Horn, J.: 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*, vol. 1, 448–455. ACM Press, London (2007)
- [93] Li, R., Bhanu, B., and Krawiec, K.: 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*, vol. 1, 456–463. ACM Press, London (2007)
- [94] Lichodziejewski, P. and Heywood, M. I.: 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*, vol. 1, 464–471. ACM Press, London (2007)
- [95] Stone, C., Toth, R., Adamatzky, A., de Lacy Costello, B., and Bull, L.: 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*, vol. 1, 472–478. ACM Press, London (2007)
- [96] Yo, T.-S. and de Jong, E. D.: 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*, vol. 1, 479–487. ACM Press, London (2007)
- [97] Au, C.-K. and Leung, H.-F.: 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*, vol. 1, 488–488. ACM Press, London (2007)
- [98] Li, R., Bhanu, B., and Krawiec, K.: 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*, vol. 1, 489–489. ACM Press, London (2007)
- [99] Ottino-Löffler, J., Rand, W., and Wilensky, U.: 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*, vol. 1, 490–491. ACM Press, London (2007)
- [100] Bosman, P. A. N., Grahl, J., and Rothlauf, F.: 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*, vol. 1, 492–499. ACM Press, London (2007)
- [101] Bosman, P. A. N. and Thierens, D.: 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*, vol. 1, 500–507. ACM Press, London (2007)
- [102] Branke, J., Lode, C., and Shapiro, J. L.: 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*, vol. 1, 508–515. ACM Press, London (2007)

- [103] Grahl, J., Bosman, P. A. N., and Minner, S.: 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*, vol. 1, 516–522. ACM Press, London (2007)
- [104] Hauschild, M., Pelikan, M., Lima, C. F., and Sastry, K.: 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*, vol. 1, 523–530. ACM Press, London (2007)
- [105] Lipinski, P.: 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*, vol. 1, 531–538. ACM Press, London (2007)
- [106] Looks, M.: 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*, vol. 1, 539–546. ACM Press, London (2007)
- [107] Pelikan, M., Kalapala, R., and Hartmann, A. K.: 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*, vol. 1, 547–554. ACM Press, London (2007)
- [108] Pelikan, M. and Laury, Jr., J. D.: 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*, vol. 1, 555–561. ACM Press, London (2007)
- [109] Pošík, P. and Franc, V.: 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*, vol. 1, 562–569. ACM Press, London (2007)
- [110] Salhi, A., Rodríguez, J. A. V., and Zhang, Q.: 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*, vol. 1, 570–576. ACM Press, London (2007)
- [111] Sastry, K., Goldberg, D. E., and Llorca, X.: 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*, vol. 1, 577–584. ACM Press, London (2007)
- [112] Shakya, S., Oliveira, F., and Owusu, G.: 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*, vol. 1, 585–592. ACM Press, London (2007)
  - [113] Ahn, C. W. and Ramakrishna, R. S.: Multiobjective real-coded bayesian optimization algorithm revisited: 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*, vol. 1, 593–600. ACM Press, London (2007)
  - [114] Yu, T.-L., Sastry, K., Goldberg, D. E., and Pelikan, M.: 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*, vol. 1, 601–608. ACM Press, London (2007)
  - [115] Cai, Y., Sun, X., Xu, H., and Jia, P.: 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*, vol. 1, 609–616. ACM Press, London (2007)
  - [116] Zhou, A., Zhang, Q., Jin, Y., Sendhoff, B., and Tsang, E.: 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*, vol. 1, 617–623. ACM Press, London (2007)
  - [117] Coffin, D. J. and Smith, R. E.: 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*, vol. 1, 624–624. ACM Press, London (2007)
  - [118] Heien, E. M., Hiroyasu, T., and Fujimoto, N.: 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*, vol. 1, 625–625. ACM Press, London (2007)
  - [119] Looks, M.: 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*, vol. 1, 626–626. ACM Press, London (2007)

- [120] Nannen, V. and Eiben, A. E.: 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*, vol. 1, 627–627. ACM Press, London (2007)
- [121] Pelikan, M. and Hartmann, A. K.: 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*, vol. 1, 628–628. ACM Press, London (2007)
- [122] Pelikan, M., Tsutsui, S., and Kalapala, R.: 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*, vol. 1, 629–629. ACM Press, London (2007)
- [123] Rimcharoen, S., Sutivong, D., and Chongstitvatana, P.: 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*, vol. 1, 630–630. ACM Press, London (2007)
- [124] Schwarz, J., Jaros, J., and Ocenasek, J.: 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*, vol. 1, 631–631. ACM Press, London (2007)
- [125] Wu, H. and Shapiro, J. L.: 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*, vol. 1, 632–633. ACM Press, London (2007)
- [126] Arnold, D. V.: 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*, vol. 1, 634–641. ACM Press, London (2007)
- [127] Ebner, M.: 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*, vol. 1, 642–649. ACM Press, London (2007)
- [128] Hsieh, C.-T., Chen, C.-M., and ping Chen, Y.: 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*, vol. 1, 650–657. ACM Press, London (2007)
- [129] Knight, J. N. and Lunacek, M.: 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*, vol. 1, 658–665. ACM Press, London (2007)
  - [130] Kramer, O., Brügger, S., and Lazovic, D.: 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*, vol. 1, 666–673. ACM Press, London (2007)
  - [131] Kramer, O., Gloger, B., and Goebels, A.: 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*, vol. 1, 674–681. ACM Press, London (2007)
  - [132] Perez-Bellido, A. M., Salcedo-Sanz, S., Ortiz-Garcia, E. G., and Portilla-Figueras, A.: 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*, vol. 1, 682–688. ACM Press, London (2007)
  - [133] Rönkkönen, J. I. and Lampinen, J.: 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*, vol. 1, 689–696. ACM Press, London (2007)
  - [134] Rossi, C., Barrientos, A., and del Cerro, J.: 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*, vol. 1, 697–704. ACM Press, London (2007)
  - [135] Shir, O. M. and Bäck, T.: 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*, vol. 1, 705–712. ACM Press, London (2007)
  - [136] Shir, O. M. and Bäck, T.: 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*, vol. 1, 713–721. ACM Press, London (2007)



- [137] Gomez, J. C. and Fuentes, O.: 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*, vol. 1, 722–722. ACM Press, London (2007)
- [138] Petrovic, P.: 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*, vol. 1, 723–725. ACM Press, London (2007)
- [139] Abido, M. A.: 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*, vol. 1, 726–733. ACM Press, London (2007)
- [140] Adra, S. F., Griffin, I., and Fleming, P. J.: 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*, vol. 1, 734–740. ACM Press, London (2007)
- [141] Aggarwal, V. and O'Reilly, U.-M.: 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*, vol. 1, 741–748. ACM Press, London (2007)
- [142] Aguirre, H., Okazaki, H., and Fuwa, Y.: 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*, vol. 1, 749–756. ACM Press, London (2007)
- [143] Becerra, R. L., Coello Coello, C. A., Hernández-Díaz, A. G., Caballero, R., and Molina, J.: 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*, vol. 1, 757–754. ACM Press, London (2007)
- [144] Brockhoff, D., Friedrich, T., Hebbinghaus, N., Klein, C., Neumann, F., and Zitzler, E.: 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*, vol. 1, 765–772. ACM Press, London (2007)
- [145] Corne, D. W. and Knowles, J. D.: 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*, vol. 1, 773–780. ACM Press, London (2007)
- [146] Deb, K. and Kumar, A.: 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*, vol. 1, 781–788. ACM Press, London (2007)
  - [147] Ferreira, J. C., Fonseca, C. M., and Gaspar-Cunha, A.: 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*, vol. 1, 789–796. ACM Press, London (2007)
  - [148] Friedrich, T., Hebbinghaus, N., Neumann, F., He, J., and Witt, C.: 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*, vol. 1, 797–804. ACM Press, London (2007)
  - [149] Grimme, C., Lepping, J., and Papaspyrou, A.: 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*, vol. 1, 805–812. ACM Press, London (2007)
  - [150] Harada, K., Sakuma, J., Kobayashi, S., and Ono, I.: 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*, vol. 1, 813–820. ACM Press, London (2007)
  - [151] Ho, N. B. and Tay, J. C.: 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*, vol. 1, 821–828. ACM Press, London (2007)
  - [152] Ishibuchi, H., Nojima, Y., Tsukamoto, N., and Ohara, K.: 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*, vol. 1, 829–836. ACM Press, London (2007)
  - [153] Johnson, M. D., Tauritz, D. R., and Wilkerson, R. W.: 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*, vol. 1, 837–844. ACM Press, London (2007)
- [154] Kirley, M. and Stewart, R.: 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*, vol. 1, 845–852. ACM Press, London (2007)
  - [155] Koduru, P., Das, S., and Welch, S. M.: Multi-objective hybrid PSO using 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*, vol. 1, 853–860. ACM Press, London (2007)
  - [156] Matake, N., Hiroyasu, T., Miki, M., and Senda, T.: 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*, vol. 1, 861–868. ACM Press, London (2007)
  - [157] Mostaghim, S., Branke, J., and Schmeck, H.: 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*, vol. 1, 869–875. ACM Press, London (2007)
  - [158] Nebro, A. J., Alba, E., Molina, G., Chicano, F., Luna, F., and Durillo, J. J.: 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*, vol. 1, 876–883. ACM Press, London (2007)
  - [159] Rotar, C., Dumitrescu, D., and Lung, R. I.: 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*, vol. 1, 884–891. ACM Press, London (2007)
  - [160] Schütze, O., Laumanns, M., Tantar, E., Coello Coello, C. A., and ghazali Talbi, E.: 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*, vol. 1, 892–901. ACM Press, London (2007)
  - [161] Bailey, B. W. and Raich, A. M.: 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*, vol. 1, 902–902. ACM Press, London (2007)

- [162] Borgulya, I.: 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*, vol. 1, 903–903. ACM Press, London (2007)
- [163] Hiroyasu, T., Yoshii, K., and Miki, M.: Discussion of parallel model of multi-objective 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*, vol. 1, 904–904. ACM Press, London (2007)
- [164] Kleeman, M. P., Lamont, G. B., Hopkinson, K. M., and Graham, S. R.: 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*, vol. 1, 905–905. ACM Press, London (2007)
- [165] León, C., Miranda, G., and Segura, C.: 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*, vol. 1, 906–906. ACM Press, London (2007)
- [166] Li, X., Branke, J., and Kirley, M.: 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*, vol. 1, 907–907. ACM Press, London (2007)
- [167] Li, Z. and Rudolph, G.: 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*, vol. 1, 908–908. ACM Press, London (2007)
- [168] Mansouri, S. A., Hendizadeh, S. H., and Salmasi, N.: 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*, vol. 1, 909–909. ACM Press, London (2007)
- [169] Mariano, C. E., Alcocer, V. H., and Morales, E. F.: 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*, vol. 1, 910–910. ACM Press, London (2007)
- [170] Martí, L., García, J., Berlanga, A., and Molina, J. M.: 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*, vol. 1, 911–911. ACM Press, London (2007)
- [171] Vrajitoru, D.: 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*, vol. 1, 912–912. ACM Press, London (2007)
- [172] Wozniak, P.: 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*, vol. 1, 913–915. ACM Press, London (2007)
- [173] Auger, A. and Teytaud, O.: 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*, vol. 1, 916–922. ACM Press, London (2007)
- [174] Gong, T. and Tuson, A. L.: 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*, vol. 1, 923–930. ACM Press, London (2007)
- [175] Jansen, T. and Theile, M.: 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*, vol. 1, 931–938. ACM Press, London (2007)
- [176] Jansen, T. and Weyland, D.: 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*, vol. 1, 939–946. ACM Press, London (2007)
- [177] Reichel, J. and Skutella, M.: 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*, vol. 1, 947–954. ACM Press, London (2007)
- [178] Teytaud, O. and Gelly, S.: 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*, vol. 1, 955–963. ACM Press, London (2007)

- [179] Watkins, C. J. C. H.: 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*, vol. 1, 964–965. ACM Press, London (2007)
- [180] Clegg, K., Stepney, S., and Clarke, T.: 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*, vol. 1, 966–973. ACM Press, London (2007)
- [181] D'Ambrosio, D. B. and Stanley, K. O.: 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*, vol. 1, 974–981. ACM Press, London (2007)
- [182] Devert, A., Bredeche, N., and Schoenauer, M.: 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*, vol. 1, 982–989. ACM Press, London (2007)
- [183] Downing, K. L.: 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*, vol. 1, 990–996. ACM Press, London (2007)
- [184] Gauci, J. and Stanley, K.: 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*, vol. 1, 997–1004. ACM Press, London (2007)
- [185] Grajdeanu, A.: 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*, vol. 1, 1005–1012. ACM Press, London (2007)
- [186] Haddow, P. C. and Hoyer, J.: 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*, vol. 1, 1013–1020. ACM Press, London (2007)
- [187] Harding, S. L., Miller, J. F., and Banzhaf, W.: 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*, vol. 1, 1021–1028. ACM Press, London (2007)
- [188] Kassahun, Y., Edgington, M., Metzen, J. H., Sommer, G., and Kirchner, F.: 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*, vol. 1, 1029–1036. ACM Press, London (2007)
  - [189] Kowaliw, T., Grogono, P., and Kharma, N.: 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*, vol. 1, 1037–1044. ACM Press, London (2007)
  - [190] Reisinger, J. and Miikkulainen, R.: 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*, vol. 1, 1045–1052. ACM Press, London (2007)
  - [191] Wilson, G. and Heywood, M.: 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*, vol. 1, 1053–1061. ACM Press, London (2007)
  - [192] Chavoya, A. and Duthen, Y.: 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*, vol. 1, 1062–1062. ACM Press, London (2007)
  - [193] Rieffel, J., Lipson, H., and Valero-Cuevas, F. J.: 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*, vol. 1, 1063–1063. ACM Press, London (2007)
  - [194] Yorgev, O. and Antonsson, E. K.: 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*, vol. 1, 1064–1065. ACM Press, London (2007)
  - [195] Alba, E. and Chicano, F.: 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*, vol. 1, 1066–1073. ACM Press, London (2007)

- [196] Ayari, K., Bouktif, S., and Antoniol, G.: 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*, vol. 1, 1074–1081. ACM Press, London (2007)
- [197] Bryce, R. C. and Colbourn, C. J.: 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*, vol. 1, 1082–1089. ACM Press, London (2007)
- [198] Di Penta, M., Canfora, G., Esposito, G., Mazza, V., and Bruno, M.: 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*, vol. 1, 1090–1097. ACM Press, London (2007)
- [199] Lakhotia, K., Harman, M., and McMinn, P.: 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*, vol. 1, 1098–1105. ACM Press, London (2007)
- [200] Harman, M. and Tratt, L.: 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*, vol. 1, 1106–1113. ACM Press, London (2007)
- [201] O’Keeffe, M. K. and Cinneide, M. O.: 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*, vol. 1, 1114–1120. ACM Press, London (2007)
- [202] Windisch, A., Wappler, S., and Wegener, J.: 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*, vol. 1, 1121–1128. ACM Press, London (2007)
- [203] Zhang, Y., Harman, M., and Mansouri, S. A.: 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*, vol. 1, 1129–1137. ACM Press, London (2007)
- [204] de Abreu, B. T., Martins, E., and de Sousa, F. L.: 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*, vol. 1, 1138–1138. ACM Press, London (2007)
- [205] Kiper, J. D., Feather, M. S., and Richardson, J.: 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*, vol. 1, 1139–1139. ACM Press, London (2007)
- [206] Liaskos, K., Roper, M., and Wood, M.: 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*, vol. 1, 1140–1140. ACM Press, London (2007)
- [207] Liu, X., Wang, L., Zhu, X., Bai, Z., Zhang, M., and Liu, H.: 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*, vol. 1, 1141–1141. ACM Press, London (2007)
- [208] Alharbi, A., Rand, W., and Riolo, R.: 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*, vol. 2, 1158–1164. ACM Press, London (2007)
- [209] Bosman, P. A. N. and Poutré, H. L.: 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*, vol. 2, 1165–1172. ACM Press, London (2007)
- [210] Chen, Y., Hu, J., Hirasawa, K., and Yu, S.: 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*, vol. 2, 1173–1178. ACM Press, London (2007)
- [211] Chiotis, T. and Clack, C. D.: 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*, vol. 2, 1179–1186. ACM Press, London (2007)
- [212] Deb, K., Sindhya, K., and Okabe, T.: 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*, vol. 2, 1187–1194. ACM Press, London (2007)

- [213] de Melo, V. V., Delbem, A. C. B., Dorival Leao Pinto, J., and Federson, F. M.: 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*, vol. 2, 1195–1202. ACM Press, London (2007)
- [214] Doerr, B. and Johannsen, D.: 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*, vol. 2, 1203–1210. ACM Press, London (2007)
- [215] Dong, H. and Liang, Y.: 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*, vol. 2, 1211–1218. ACM Press, London (2007)
- [216] Friedrich, T., Hebbinghaus, N., and Neumann, F.: 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*, vol. 2, 1219–1225. ACM Press, London (2007)
- [217] Gallardo, J. E., Cotta, C., and Fernandez, A. J.: 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*, vol. 2, 1226–1233. ACM Press, London (2007)
- [218] Garibay, O. O. and Wu, A. S.: 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*, vol. 2, 1234–1241. ACM Press, London (2007)
- [219] Hanada, Y., Hiroyasu, T., and Miki, M.: 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*, vol. 2, 1242–1249. ACM Press, London (2007)
- [220] Hippolyte, J.-L., Bloch, C., Chatonnay, P., Espanet, C., and Chamagne, D.: 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*, vol. 2, 1250–1255. ACM Press, London (2007)
- [221] Iclanzan, D. and Dumitrescu, D.: 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*, vol. 2, 1256–1263. ACM Press, London (2007)
- [222] Kabli, R., Herrmann, F., and McCall, J.: 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*, vol. 2, 1264–1271. ACM Press, London (2007)
- [223] Kim, M., Aggarwal, V., O'Reilly, U.-M., and Medard, M.: 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*, vol. 2, 1272–1279. ACM Press, London (2007)
- [224] Li, Z. and Goodman, E. D.: 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*, vol. 2, 1280–1287. ACM Press, London (2007)
- [225] Lim, D., Ong, Y.-S., Jin, Y., and Sendhoff, B.: 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*, vol. 2, 1288–1295. ACM Press, London (2007)
- [226] Lung, R. I. and Dumitrescu, D.: 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*, vol. 2, 1296–1303. ACM Press, London (2007)
- [227] Mattiussi, C., Dürr, P., and Floreano, D.: 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*, vol. 2, 1304–1311. ACM Press, London (2007)
- [228] Mills, R. and Watson, R. A.: 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*, vol. 2, 1312–1319. ACM Press, London (2007)
- [229] Paulden, T. and Smith, D. K.: 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*, vol. 2, 1320–1327. ACM Press, London (2007)

- [230] Philemotte, C. and Bersini, H.: 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*, vol. 2, 1328–1334. ACM Press, London (2007)
- [231] Poli, R. and Vanneschi, L.: 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*, vol. 2, 1335–1342. ACM Press, London (2007)
- [232] Prugel-Bennett, A.: 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*, vol. 2, 1343–1348. ACM Press, London (2007)
- [233] Qiu, Q., Burns, D., Mukre, P., and Wu, Q.: 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*, vol. 2, 1349–1356. ACM Press, London (2007)
- [234] Rohlfshagen, P. and Bullinaria, J. A.: 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*, vol. 2, 1357–1364. ACM Press, London (2007)
- [235] Rohlfshagen, P. and Bullinaria, J. A.: 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*, vol. 2, 1365–1371. ACM Press, London (2007)
- [236] Sakuma, J. and Kobayashi, S.: 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*, vol. 2, 1372–1379. ACM Press, London (2007)
- [237] Sastry, K. and Goldberg, D. E.: 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*, vol. 2, 1380–1387. ACM Press, London (2007)
- [238] Sastry, K., Pelikan, M., and Goldberg, D. E.: 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*, vol. 2, 1388–1395. ACM Press, London (2007)
- [239] Sato, Y., Yasuda, Y., and Goto, R.: 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*, vol. 2, 1396–1403. ACM Press, London (2007)
- [240] Schonfeld, J.: 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*, vol. 2, 1404–1411. ACM Press, London (2007)
- [241] Smith, J. E.: 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*, vol. 2, 1412–1419. ACM Press, London (2007)
- [242] Stoean, C. L., Preuss, M., Stoean, R., and Dumitrescu, D.: 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*, vol. 2, 1420–1427. ACM Press, London (2007)
- [243] Sutton, A. M., Lunacek, M., and Whitley, L. D.: 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*, vol. 2, 1428–1435. ACM Press, London (2007)
- [244] Toledo-Suárez, C. D., Valenzuela-Rendón, M., Terashima-Marín, H., and Uresti-Charre, E.: 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*, vol. 2, 1436–1443. ACM Press, London (2007)
- [245] Tripp, H. and Palmer, P.: 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*, vol. 2, 1444–1451. ACM Press, London (2007)
- [246] Watson, R. A. and Jansen, T.: 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*, vol. 2, 1452–1459. ACM Press, London (2007)
- [247] Wickramasinghe, W. R. M. U. K., van Steen, M., and Eiben, A. E.: 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*, vol. 2, 1460–1467. ACM Press, London (2007)
  - [248] Xie, H., Zhang, M., and Andreae, P.: 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*, vol. 2, 1468–1475. ACM Press, London (2007)
  - [249] Yu, L., Zhou, J., Mabu, S., Hirasawa, K., Hu, J., and Markon, S.: 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*, vol. 2, 1476–1483. ACM Press, London (2007)
  - [250] Zhou, S., Sun, Z., and Heckendorn, R. B.: 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*, vol. 2, 1484–1491. ACM Press, London (2007)
  - [251] Zilinskas, A. and Zilinskas, J.: 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*, vol. 2, 1492–1501. ACM Press, London (2007)
  - [252] Boulif, M. and Atif, K.: 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*, vol. 2, 1502–1502. ACM Press, London (2007)
  - [253] Chen, Y., Mabu, S., Hirasawa, K., and Hu, J.: 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*, vol. 2, 1503–1503. ACM Press, London (2007)
  - [254] Correia, M. B. and Fonseca, C. M.: 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*, vol. 2, 1504–1504. ACM Press, London (2007)

- [255] Drzadzewski, G. and Wineberg, M.: 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*, vol. 2, 1505–1505. ACM Press, London (2007)
- [256] Eiben, A. E., Schoenauer, M., van Krevelen, D. W. F., Hobbelman, M. C., ten Hagen, M. A., and van het Schip, R. C.: 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*, vol. 2, 1506–1506. ACM Press, London (2007)
- [257] Fayek, M. B. E., Talaat, A. S., and Darwish, N. M.: 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*, vol. 2, 1507–1507. ACM Press, London (2007)
- [258] Galvan-Lopez, E. and Poli, R.: 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*, vol. 2, 1508–1508. ACM Press, London (2007)
- [259] Galvan-Lopez, E., Togelius, J., and Lucas, S.: 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*, vol. 2, 1509–1509. ACM Press, London (2007)
- [260] García-Nieto, J., Alba, E., and Chicano, F.: 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*, vol. 2, 1510–1510. ACM Press, London (2007)
- [261] Gog, A., Dumitrescu, D., and Hirsbrunner, B.: 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*, vol. 2, 1511–1511. ACM Press, London (2007)
- [262] Gonzales, E., Shimada, K., Mabu, S., Hirasawa, K., and Hu, J.: 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*, vol. 2, 1512–1512. ACM Press, London (2007)
- [263] Graff, M., Poli, R., and Moraglio, A.: 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*, vol. 2, 1513–1513. ACM Press, London (2007)
- [264] Graham, L. K., Christensen, S., and Oppacher, F.: 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*, vol. 2, 1514–1514. ACM Press, London (2007)
- [265] Halavati, R., Shouraki, S. B., Jashmi, B. J., and Heravi, M. J.: 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*, vol. 2, 1515–1515. ACM Press, London (2007)
- [266] Halma, A. and Turk, R.: 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*, vol. 2, 1516–1516. ACM Press, London (2007)
- [267] Hamann, A. and Ernst, R.: 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*, vol. 2, 1517–1517. ACM Press, London (2007)
- [268] He, J. and Zhou, Y.: 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*, vol. 2, 1518–1518. ACM Press, London (2007)
- [269] Hidalgo, J. I., de Vega, F. F., Lanchares, J., and Lombrana, D.: 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*, vol. 2, 1519–1519. ACM Press, London (2007)
- [270] Hwang, I., Kim, Y.-H., and Moon, B.-R.: 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*, vol. 2, 1520–1520. ACM Press, London (2007)
- [271] Johnson, C. G.: 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*, vol. 2, 1521–1521. ACM Press, London (2007)



- [272] Kimbrough, S. O. and Wood, D. H.: 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*, vol. 2, 1522–1522. ACM Press, London (2007)
- [273] Kramer, O. and Koch, P.: 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*, vol. 2, 1523–1523. ACM Press, London (2007)
- [274] Tiago Leit a., Pereira, F. B., Tavares, J., and Costa, E.: 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*, vol. 2, 1524–1524. ACM Press, London (2007)
- [275] Mbogho, A. J. W. and Scarlatos, L. L.: 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*, vol. 2, 1525–1525. ACM Press, London (2007)
- [276] Merelo, J. J. and Cotta, C.: 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*, vol. 2, 1526–1526. ACM Press, London (2007)
- [277] Mitchell, G., McMullin, B., Decraene, J., and Kelly, C.: 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*, vol. 2, 1527–1527. ACM Press, London (2007)
- [278] Payne, J. L. and Eppstein, M. J.: 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*, vol. 2, 1528–1528. ACM Press, London (2007)
- [279] Pfeiffer, J. and Rothlauf, F.: 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*, vol. 2, 1529–1529. ACM Press, London (2007)
- [280] Anabela Sim o. and Costa, E.: 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*, vol. 2, 1530–1530. ACM Press, London (2007)
- [281] Sondahl, F. and Rand, W.: 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*, vol. 2, 1531–1531. ACM Press, London (2007)
- [282] Stanoyevitch, A.: 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*, vol. 2, 1532–1532. ACM Press, London (2007)
- [283] Tahera, K., Ibrahim, R. N., and Lochert, P. B.: 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*, vol. 2, 1533–1533. ACM Press, London (2007)
- [284] Tengg, A., Klausner, A., and Rinner, B.: 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*, vol. 2, 1534–1534. ACM Press, London (2007)
- [285] Ting, C.-K.: 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*, vol. 2, 1535–1535. ACM Press, London (2007)
- [286] Tucker, A., Swift, S., and Crampton, J.: 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*, vol. 2, 1536–1536. ACM Press, London (2007)
- [287] Vieira, C. C. and Fonseca, C. M.: 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*, vol. 2, 1537–1537. ACM Press, London (2007)
- [288] Wilke, D. N., Kok, S., and Groenwold, A. A.: 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*, vol. 2, 1538–1538. ACM Press, London (2007)

- [289] Yoon, Y., Kim, Y.-H., Moraglio, A., and Moon, B.-R.: 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*, vol. 2, 1539–1539. ACM Press, London (2007)
- [290] Zhou, S. and Sun, Z.: 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*, vol. 2, 1540–1542. ACM Press, London (2007)
- [291] Agapitos, A., Togelius, J., and Lucas, S. M.: 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*, vol. 2, 1543–1550. ACM Press, London (2007)
- [292] Badran, K. M. S. and Rockett, P. I.: 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*, vol. 2, 1551–1558. ACM Press, London (2007)
- [293] Burke, E. K., Hyde, M. R., Kendall, G., and Woodward, J.: 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*, vol. 2, 1559–1565. ACM Press, London (2007)
- [294] Chitty, D. M.: 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*, vol. 2, 1566–1573. ACM Press, London (2007)
- [295] Christensen, S. and Oppacher, F.: 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*, vol. 2, 1574–1579. ACM Press, London (2007)
- [296] Clegg, J., Walker, J. A., and Miller, J. F.: 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*, vol. 2, 1580–1587. ACM Press, London (2007)
- [297] Dignum, S. and Poli, R.: 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*, vol. 2, 1588–1595. ACM Press, London (2007)
- [298] Drugowitsch, J. and Barry, A. M.: 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*, vol. 2, 1596–1603. ACM Press, London (2007)
- [299] Hirsch, L., Hirsch, R., and Saeedi, M.: 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*, vol. 2, 1604–1611. ACM Press, London (2007)
- [300] Jackson, D.: 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*, vol. 2, 1612–1619. ACM Press, London (2007)
- [301] Jaskowski, W., Krawiec, K., and Wieloch, B.: 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*, vol. 2, 1620–1627. ACM Press, London (2007)
- [302] Klein, J. and Spector, L.: 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*, vol. 2, 1628–1635. ACM Press, London (2007)
- [303] Looks, M.: 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*, vol. 2, 1636–1642. ACM Press, London (2007)
- [304] Luthi, L., Tomassini, M., Giacobini, M., and Langdon, W. B.: 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*, vol. 2, 1643–1650. ACM Press, London (2007)
- [305] Majeed, H. and Ryan, C.: 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*, vol. 2, 1651–1658. ACM Press, London (2007)

- [306] Majeed, H. and Ryan, C.: 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*, vol. 2, 1659–1666. ACM Press, London (2007)
- [307] Muntean, O., Diosan, L., and Oltean, M.: 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*, vol. 2, 1667–1673. ACM Press, London (2007)
- [308] Schmidt, M. and Lipson, H.: 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*, vol. 2, 1674–1679. ACM Press, London (2007)
- [309] Schmidt, M. D. and Lipson, H.: 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*, vol. 2, 1680–1685. ACM Press, London (2007)
- [310] Shirakawa, S., Ogino, S., and Nagao, T.: 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*, vol. 2, 1686–1693. ACM Press, London (2007)
- [311] Smith, M. and Bull, L.: 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*, vol. 2, 1694–1701. ACM Press, London (2007)
- [312] Sullivan, K. M. and Luke, S.: 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*, vol. 2, 1702–1707. ACM Press, London (2007)
- [313] Thomason, R. and Soule, T.: 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*, vol. 2, 1708–1715. ACM Press, London (2007)
- [314] Walker, M., Edwards, H., and Messom, C.: 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*, vol. 2, 1716–1723. ACM Press, London (2007)
- [315] Walker, J. A. and Miller, J. F.: 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*, vol. 2, 1724–1730. ACM Press, London (2007)
  - [316] Woolley, B. G. and Peterson, G. L.: 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*, vol. 2, 1731–1738. ACM Press, London (2007)
  - [317] Xie, H., Zhang, M., and Andreae, P.: 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*, vol. 2, 1739–1748. ACM Press, London (2007)
  - [318] Bader-El-Den, M. B. and Poli, R.: 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*, vol. 2, 1749–1749. ACM Press, London (2007)
  - [319] Cai, X., Welch, S. M., Koduru, P., and Das, S.: 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*, vol. 2, 1750–1750. ACM Press, London (2007)
  - [320] Folino, G., Pizzuti, C., and Spezzano, G.: 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*, vol. 2, 1751–1751. ACM Press, London (2007)
  - [321] Gonzalez, D. L. and de Vega, F. F.: 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*, vol. 2, 1752–1752. ACM Press, London (2007)
  - [322] Keller, R. E. and Poli, R.: 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*, vol. 2, 1753–1753. ACM Press, London (2007)

- [323] Miki, M., Hashimoto, M., and Fujita, Y.: 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*, vol. 2, 1754–1754. ACM Press, London (2007)
- [324] Murphy, G. and Ryan, C.: 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*, vol. 2, 1755–1755. ACM Press, London (2007)
- [325] Radi, A. M. and El-Bakry, S. Y.: 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*, vol. 2, 1756–1756. ACM Press, London (2007)
- [326] Solano, M. and Jonyer, I.: 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*, vol. 2, 1757–1757. ACM Press, London (2007)
- [327] Taboada, K., Shimada, K., Mabu, S., Hirasawa, K., and Hu, J.: 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*, vol. 2, 1758–1758. ACM Press, London (2007)
- [328] Vanneschi, L., Rochat, D., and Tomassini, M.: 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*, vol. 2, 1759–1759. ACM Press, London (2007)
- [329] Walker, M., Edwards, H., and Messom, C.: "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*, vol. 2, 1760–1760. ACM Press, London (2007)
- [330] Wong, P. L.-M. and Zhang, M.: 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*, vol. 2, 1761–1761. ACM Press, London (2007)
- [331] Wyns, B. and Boullart, L.: 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*, vol. 2, 1762–1762. ACM Press, London (2007)
- [332] Wyns, B., Boullart, L., and De Smedt, P. J.: 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*, vol. 2, 1763–1763. ACM Press, London (2007)
- [333] Ando, S.: 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*, vol. 2, 1766–1773. ACM Press, London (2007)
- [334] Brown, G., Kovacs, T., and Marshall, J. A. R.: 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*, vol. 2, 1774–1781. ACM Press, London (2007)
- [335] Gagné, C., Sebag, M., Schoenauer, M., and Tomassini, M.: 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*, vol. 2, 1782–1789. ACM Press, London (2007)
- [336] Jaskowski, W., Krawiec, K., and Wieloch, B.: 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*, vol. 2, 1790–1797. ACM Press, London (2007)
- [337] Llorà, X., Sastry, K., Yu, T.-L., and Goldberg, D. E.: 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*, vol. 2, 1798–1805. ACM Press, London (2007)
- [338] Loiacono, D., Marelli, A., and Lanzi, P. L.: 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*, vol. 2, 1806–1813. ACM Press, London (2007)
- [339] Lanzi, P. L., Butz, M. V., and Goldberg, D. E.: 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*, vol. 2, 1814–1821. ACM Press, London (2007)



- [340] Lanzi, P. L. and Loiacono, D.: 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*, vol. 2, 1822–1829. ACM Press, London (2007)
- [341] Mierswa, I.: 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*, vol. 2, 1830–1837. ACM Press, London (2007)
- [342] Orriols-Puig, A., Goldberg, D. E., Sastry, K., and Bernadó-Mansilla, E.: 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*, vol. 2, 1838–1845. ACM Press, London (2007)
- [343] Orriols-Puig, A., Sastry, K., Lanzi, P. L., Goldberg, D. E., and Bernadó-Mansilla, E.: 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*, vol. 2, 1846–1853. ACM Press, London (2007)
- [344] Tamee, K., Bull, L., and Pinngern, O.: 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*, vol. 2, 1854–1860. ACM Press, London (2007)
- [345] Tran, H. T., Sanza, C., Duthen, Y., and Nguyen, T. D.: 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*, vol. 2, 1861–1869. ACM Press, London (2007)
- [346] Cattral, R. and Oppacher, F.: 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*, vol. 2, 1870–1870. ACM Press, London (2007)
- [347] Chen, H.-W. and ping Chen, Y.: 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*, vol. 2, 1871–1871. ACM Press, London (2007)
- [348] DeHaas, D., Craig, J., Rickert, C., Eppstein, M. J., Haake, P., and Stor, K.: 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*, vol. 2, 1872–1872. ACM Press, London (2007)
- [349] Diosan, L., Oltean, M., Rogozan, A., and Pecuchet, J. P.: 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*, vol. 2, 1873–1873. ACM Press, London (2007)
- [350] Gandhe, A., Yu, S.-H., Mehra, R., and Smith, R. E.: 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*, vol. 2, 1874–1874. ACM Press, London (2007)
- [351] Shafti, L. S. and Pérez, E.: 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*, vol. 2, 1875–1875. ACM Press, London (2007)
- [352] Shankar, A., Louis, S. J., Dascalu, S., Houmanfar, R., and Hayes, L. J.: 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*, vol. 2, 1876–1876. ACM Press, London (2007)
- [353] Smith, R. E. and Jiang, M. K.: 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*, vol. 2, 1877–1877. ACM Press, London (2007)
- [354] Achiche, S., Wang, W., Fan, Z., Ozkil, A., Sorensen, T., Wang, J., and Goodman, E.: 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*, vol. 2, 1880–1887. ACM Press, London (2007)
- [355] Agogino, A. and Tumer, K.: 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*, vol. 2, 1888–1895. ACM Press, London (2007)
- [356] Araujo, L. and Merelo, J. J.: 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*, vol. 2, 1896–1903. ACM Press, London (2007)
- [357] Banerjee, N. and Kumar, R.: 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*, vol. 2, 1904–1911. ACM Press, London (2007)
- [358] Bolzani, L., Sanchez, E., Schillaci, M., and Squillero, G.: 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*, vol. 2, 1912–1919. ACM Press, London (2007)
- [359] Chen, C.-H. and ping Chen, Y.: 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*, vol. 2, 1920–1927. ACM Press, London (2007)
- [360] Chen, J.-H.: 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*, vol. 2, 1928–1935. ACM Press, London (2007)
- [361] Choo, C. S., Chua, C. L., and Tay, S.-H. V.: 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*, vol. 2, 1936–1942. ACM Press, London (2007)
- [362] Demir, G. N., Uyar, A. S., and Ögüdücü, S. G.: 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*, vol. 2, 1943–1950. ACM Press, London (2007)
- [363] Doherty, D. and O’Riordan, C.: 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*, vol. 2, 1951–1958. ACM Press, London (2007)
- [364] Reis, G. and Fernandez Vega, F.: 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*, vol. 2, 1959–1966. ACM Press, London (2007)

- I., eds., *GECCO '07: Proceedings of the 9th annual conference on Genetic and evolutionary computation*, vol. 2, 1959–1966. ACM Press, London (2007)
- [365] Dragoni, M. and Tettamanzi, A. G. B.: 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*, vol. 2, 1967–1974. ACM Press, London (2007)
  - [366] Esparcia-Alcazar, A. I., Lluch-Revert, L., Cardos, M., Sharman, K., and Merelo, J. J.: 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*, vol. 2, 1975–1982. ACM Press, London (2007)
  - [367] Fan, K., Brabazon, A., O’Sullivan, C., and O’Neill, M.: 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*, vol. 2, 1983–1990. ACM Press, London (2007)
  - [368] Förster, M., Bickel, B., Hardung, B., and Kókai, G.: 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*, vol. 2, 1991–1998. ACM Press, London (2007)
  - [369] Francone, F. D., Deschaine, L. M., and Warren, J. J.: 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*, vol. 2, 1999–2006. ACM Press, London (2007)
  - [370] Geremia, P., Poian, M., and Poles, S.: 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*, vol. 2, 2007–2012. ACM Press, London (2007)
  - [371] Hanna, S.: 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*, vol. 2, 2013–2020. ACM Press, London (2007)
  - [372] Hoverstad, B. A.: 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*, vol. 2, 2021–2028. ACM Press, London (2007)

- [373] Hung, P.-C., ping Chen, Y., and Zan, H. W.: 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*, vol. 2, 2029–2036. ACM Press, London (2007)
- [374] Jaros, J., Ohlidal, M., and Dvorak, V.: 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*, vol. 2, 2037–2044. ACM Press, London (2007)
- [375] Jenabi, M., Torabi, S. A., and Mansouri, S. A.: 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*, vol. 2, 2045–2052. ACM Press, London (2007)
- [376] Joost, R. and Salomon, R.: 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*, vol. 2, 2053–2058. ACM Press, London (2007)
- [377] Jursa, R.: 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*, vol. 2, 2059–2065. ACM Press, London (2007)
- [378] Kharbat, F., Bull, L., and Odeh, M.: 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*, vol. 2, 2066–2073. ACM Press, London (2007)
- [379] Koza, J. R., Al-Sakran, S. H., Jones, L. W., and Manassero, G.: 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*, vol. 2, 2074–2081. ACM Press, London (2007)
- [380] Lange, R. C. and Mancoridis, S.: 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*, vol. 2, 2082–2089. ACM Press, London (2007)
- [381] Lee, J.-W., Choi, S.-S., and Moon, B.-R.: 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*, vol. 2, 2090–2097. ACM Press, London (2007)
- [382] Llorà, X., Reddy, R., Matesic, B., and Bhargava, R.: 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*, vol. 2, 2098–2105. ACM Press, London (2007)
- [383] Lockett, A. J., Chen, C. L., and Miikkulainen, R.: 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*, vol. 2, 2106–2113. ACM Press, London (2007)
- [384] McCubbin, C., Scheidt, D., Bandte, O., Marshall, S., and Trifonov, I.: 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*, vol. 2, 2114–2121. ACM Press, London (2007)
- [385] Mehnen, J., Roy, R., Kersting, P., and Wagner, T.: 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*, vol. 2, 2122–2128. ACM Press, London (2007)
- [386] Odeh, O., Koduru, P., Das, S., Featherstone, A. M., and Welch, S. M.: A multi-objective 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*, vol. 2, 2129–2136. ACM Press, London (2007)
- [387] Peterson, M. R., Lamont, G. B., Moore, F., and Marshall, P.: 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*, vol. 2, 2137–2144. ACM Press, London (2007)
- [388] Powell, D. and Hollingsworth, J.: 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*, vol. 2, 2145–2150. ACM Press, London (2007)
- [389] Quiroz, J. C., Louis, S. J., and Dascalu, S. M.: 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*, vol. 2, 2151–2158. ACM Press, London (2007)
- [390] Ramirez, R. and Hazan, A.: 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*, vol. 2, 2159–2166. ACM Press, London (2007)
- [391] Sullivan, J. and Ryan, C.: 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*, vol. 2, 2167–2173. ACM Press, London (2007)
- [392] Swift, S., Tucker, A., Crampton, J., and Garway-Heath, D.: 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*, vol. 2, 2174–2181. ACM Press, London (2007)
- [393] Terashima-Marin, H., Zarate, C. J. F., Ross, P., and Valenzuela-Rendon, M.: 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*, vol. 2, 2182–2189. ACM Press, London (2007)
- [394] Thangavelu, R. and Pradeep, S.: 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*, vol. 2, 2190–2194. ACM Press, London (2007)
- [395] Wagner, T., Michelitsch, T., and Sacharow, A.: 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*, vol. 2, 2195–2202. ACM Press, London (2007)
- [396] Wang, C.-W., Sun, L.-M., Jin, M.-H., Fu, C.-J., Liu, L., Chan, C.-H., and Kao, C.-Y.: 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*, vol. 2, 2203–2210. ACM Press, London (2007)
- [397] Wang, J., Jing, N., Li, J., and Chen, Z. H.: 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*, vol. 2, 2211–2218. ACM Press, London (2007)
- [398] Wedge, D. C., Gaskell, S. J., Hubbard, S. J., Kell, D. B., Lau, K. W., and Eyers, C.: 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*, vol. 2, 2219–2225. ACM Press, London (2007)
  - [399] Yan, W. and Clack, C. D.: 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*, vol. 2, 2226–2233. ACM Press, London (2007)
  - [400] Yan, W. and Clack, C. D.: 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*, vol. 2, 2234–2241. ACM Press, London (2007)
  - [401] Zinchenko, L., Radecker, M., and Bisogno, F.: 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*, vol. 2, 2242–2251. ACM Press, London (2007)
  - [402] Azzini, A. and Tettamanzi, A. G. B.: 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*, vol. 2, 2252–2252. ACM Press, London (2007)
  - [403] Cebrian, M., Alfonseca, M., and Ortega, A.: 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*, vol. 2, 2253–2253. ACM Press, London (2007)
  - [404] Costelloe, D. and Ryan, C.: 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*, vol. 2, 2254–2254. ACM Press, London (2007)
  - [405] Cummins, R. and O’Riordan, C.: 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*, vol. 2, 2255–2255. ACM Press, London (2007)



- [406] Danoy, G., Alba, E., Bouvry, P., and Brust, M.: 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*, vol. 2, 2256–2256. ACM Press, London (2007)
- [407] Duke, J. and Clack, C. D.: 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*, vol. 2, 2257–2257. ACM Press, London (2007)
- [408] Isaacs, J. C., Foo, S., and Meyer-Baese, A.: 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*, vol. 2, 2258–2258. ACM Press, London (2007)
- [409] Kumar, R. and Singh, P. K.: 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*, vol. 2, 2259–2259. ACM Press, London (2007)
- [410] Lai, C.-C., Ting, C.-K., and Ko, R.-S.: 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*, vol. 2, 2260–2260. ACM Press, London (2007)
- [411] Lourenço, N. C. and Horta, N. C.: 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*, vol. 2, 2261–2261. ACM Press, London (2007)
- [412] Ma, I., Wong, T., and Sankar, T.: 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*, vol. 2, 2262–2262. ACM Press, London (2007)
- [413] Mabu, S., Chen, Y., Hirasawa, K., and Hu, J.: 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*, vol. 2, 2263–2263. ACM Press, London (2007)
- [414] Oranchak, D.: 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*, vol. 2, 2264–2264. ACM Press, London (2007)
- [415] Sekaj, I., Perkacz, J., and Palenik, T.: 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*, vol. 2, 2265–2265. ACM Press, London (2007)
- [416] Shir, O. M., Bäck, T., and Vrakking, M. J. J.: 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*, vol. 2, 2266–2266. ACM Press, London (2007)
- [417] Tufail, M. and Ormsbee, L. E.: 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*, vol. 2, 2267–2267. ACM Press, London (2007)
- [418] Turner, C. J. and Tiwari, A.: 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*, vol. 2, 2268–2268. ACM Press, London (2007)
- [419] Urquhart, N. B.: 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*, vol. 2, 2269–2269. ACM Press, London (2007)