Список литературы

[Acan and Unveren(2004)] **Acan, A. and Unveren, A.** (2004). An evolutionary constraint satisfaction solution for over the cell channel routing. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Adamopoulos et al.(2004)Adamopoulos, Harman and Hierons] **Adamopoulos, K., Harman, M. and Hierons, R. M.** (2004). How to overcome the equivalent mutant problem and achieve tailored selective mutation using co-evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Agarwal et al.(2004a)Agarwal, Lim, Chew, Poo, Er and Leong] **Agarwal, A., Lim, M.-H., Chew, C. Y., Poo, T. K., Er, M. J. and Leong, Y. K.** (2004a). Solution to the fixed airbase problem for autonomous urav site visitation sequencing. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Agarwal et al.(2004b)Agarwal, Lim, Kyaw and Er] **Agarwal, A., Lim, M.-H., Kyaw, M. Y. W. and Er, M. J.** (2004b). Inflight rerouting for an unmanned aerial vehicle. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ali and Topchy(2004)] **Ali, W. and Topchy, A.** (2004). Memetic optimization of video chain designs. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Andrews and Salzberg(2004)] **Andrews, M. W. and Salzberg, C.** (2004). Sexual and asexual paradigms in evolution: The implications for genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Antoniol et al.(2004)Antoniol, Penta and Harman] **Antoniol, G., Penta, M. D. and Harman, M.** (2004). Search-based techniques for optimizing software project resource allocation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bacardit and Garrell(2004)] **Bacardit, J. and Garrell, J. M.** (2004). Analysis and improvements of the adaptive discretization intervals knowledge representation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bae and Moon(2004)] **Bae, S.-H. and Moon, B.-R.** (2004). Mutation rates in the context of hybrid genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Balan and Luke(2004)] **Balan, G. C. and Luke, S.** (2004). A demonstration of neural programming applied to non-markovian problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ballester and Carter(2004)] **Ballester, P. J. and Carter, J. N.** (2004). Tackling an inverse problem from the petroleum industry with a genetic algorithm for sampling. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bambha et al.(2004)Bambha, Bhattacharyya, Teich and Zitzler] **Bambha, N. K., Bhattacharyya, S. S., Teich, J. and Zitzler, E.** (2004). Systematic integration of parameterized local search techniques in evolutionary algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bandte and Malinchik(2004)] **Bandte, O. and Malinchik, S.** (2004). A broad and narrow approach to interactive evolutionary design – an aircraft design example. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Barbieri et al.(2004)Barbieri, Cagnoni and Colavolpe] **Barbieri, A., Cagnoni, S. and Colavolpe, G.** (2004). A genetic approach for generating good linear block error-correcting codes. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Baresel et al.(2004)Baresel, Sthamer and Wegener] **Baresel, A., Sthamer, H. and Wegener, J.** (2004). Applying evolutionary testing to search for critical defects. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bernstein et al.(2004)Bernstein, Li, Ciesielski and Song] **Bernstein, Y., Li, X., Ciesielski, V. and Song, A.** (2004). Improving generalisation performance through multiobjective parsimony enforcement. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bhanu et al.(2004)Bhanu, Yu, Tan and Lin] **Bhanu, B., Yu, J., Tan, X. and Lin, Y.** (2004). Feature synthesis using genetic programming for face expression recognition. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Branke et al.(2004)Branke, Funes and Thiele] **Branke, J., Funes, P. and Thiele, F.** (2004). Evolving en-route caching strategies for the internet. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Bui and Youssef(2004)] **Bui, T. N. and Youssef, W. A.** (2004). An enhanced genetic algorithm for dna sequencing by hybridization with positive and negative errors. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Butz et al.(2004a)Butz, Goldberg and Lanzi] **Butz, M. V., Goldberg, D. E. and Lanzi, P. L.** (2004a). Bounding learning time in xcs. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Butz et al.(2004b)Butz, Goldberg and Lanzi] **Butz, M. V., Goldberg, D. E. and Lanzi, P. L.** (2004b). Gradient-based learning updates improve xcs performance in multistep problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Chen et al.(2004)Chen, Yang, Tsai and Kao] **Chen, Y.-C., Yang, J.-M., Tsai, C.-H. and Kao, C.-Y.** (2004). Comparative molecular binding energy analysis of hiv-1 protease inhibitors using genetic algorithm-based partial least squares method. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Chia and Tan(2004)] **Chia, H. W.-K. and Tan, C.-L.** (2004). Confidence and support classification using genetically programmed neural logic networks. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Choi and Moon(2004)] **Choi, Y.-S. and Moon, B.-R.** (2004). Genetic fuzzy discretization for classification problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Dallaali and Premaratne(2004)] **Dallaali, M. A. and Premaratne, M.** (2004). Controlled content crossover: A new crossover scheme and its application to optical network component allocation

problem. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[de Silva Garza and Lores(2004)] **de Silva Garza, A. G. and Lores, A. Z.** (2004). Automating evolutionary art in the style of mondrian. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Deb et al.(2004)Deb, Mitra, Dewri and Majumdar] **Deb, K., Mitra, K., Dewri, R. and Majumdar, S.** (2004). Unveiling optimal operating conditions for an epoxy polymerization process using multi-objective evolutionary computation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Dempsey et al.(2004)Dempsey, O'Neill and Brabazon] **Dempsey, I., O'Neill, M. and Brabazon, A.** (2004). Grammatical constant creation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Derderian et al.(2004)Derderian, Hierons, Harman and Guo] **Derderian, K., Hierons, R. M., Harman, M. and Guo, Q.** (2004). Input sequence generation for testing of communicating finite state machines (cfsms). In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Devireddy and Reed(2004)] **Devireddy, V. and Reed, P.** (2004). Efficient and reliable evolutionary multiobjective optimization using e-dominance archiving and adaptive population sizing. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Elliott et al.(2004a)Elliott, Ingham, Kyne, Mera, Pourkashanian and Whittaker] **Elliott, L., Ingham, D. B., Kyne, A. G., Mera, N. S., Pourkashanian, M. and Whittaker, S.** (2004a). Efficient clustering-based genetic algorithms in chemical kinetic modelling. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Elliott et al.(2004b)Elliott, Ingham, Kyne, Mera, Pourkashanian and Wilson] **Elliott, L., Ingham, D. B., Kyne, A. G., Mera, N. S., Pourkashanian, M. and Wilson, C. W.** (2004b). An informed operator based genetic algorithm for tuning the reaction rate parameters of chemical kinetics mechanisms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation –*

GECCO-2004, Part II, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Eskridge and Hougen(2004)] **Eskridge, B. E. and Hougen, D. F.** (2004). Memetic crossover for genetic programming: Evolution through imitation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Fernandez(2004)] **Fernandez, T.** (2004). Virtual ramping of genetic programming populations. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Fernlund and Gonzalez(2004)] **Fernlund, H. and Gonzalez, A. J.** (2004). Using gp to model contextual human behavior. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ferrandi et al.(2004)Ferrandi, Lanzi and Sciuto] **Ferrandi, F., Lanzi, P. L. and Sciuto, D.** (2004). System level hardware-software design exploration with xcs. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ferreira and Vergilio(2004)] **Ferreira, L. P. and Vergilio, S. R.** (2004). Tdsgen: An environment based on hybrid genetic algorithms for generation of test data. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Frommer et al.(2004)Frommer, Golden and Pundoor] **Frommer, I., Golden, B. and Pundoor, G.** (2004). Heuristic methods for solving euclidean non-uniform steiner tree problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Fukunaga(2004)] **Fukunaga, A. S.** (2004). Evolving local search heuristics for sat using genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Gomez and Miikkulainen(2004)] **Gomez, F. J. and Miikkulainen, R.** (2004). Transfer of neuroevolved controllers in unstable domains. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[González et al.(2004)González, Romero and Brizuela] **González, L. C., Romero, H. J. and Brizuela, C. A.** (2004). A genetic algorithm for the shortest common superstring problem. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Grasemann and Miikkulainen(2004)] **Grasemann, U. and Miikkulainen, R.** (2004). Evolving wavelets using a coevolutionary genetic algorithm and lifting. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hamza and Saitou(2004)] **Hamza, K. and Saitou, K.** (2004). Optimization of constructive solid geometry via a tree-based multi-objective genetic algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Handa(2004)] **Handa, H.** (2004). Mutation can improve the search capability of estimation of distribution algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Harmon et al.(2004)Harmon, Rodríguez, Zhong and Hsu] **Harmon, S., Rodríguez, E., Zhong, C. and Hsu, W.** (2004). A comparison of hybrid incremental reuse strategies for reinforcement learning in genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hercog(2004)] **Hercog, L. M.** (2004). Co-evolutionary agent self-organization for city traffic congestion modeling. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hoai and McKay(2004)] **Hoai, N. X. and McKay, R.** (2004). Softening the structural difficulty in genetic programming with tag-based representation and insertion/deletion operators. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hodjat et al.(2004)Hodjat, Ito and Amamiya] **Hodjat, B., Ito, J. and Amamiya, M.** (2004). A genetic algorithm to improve agent-oriented natural language interpreters. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hong et al.(2004)Hong, Kwong and Wang] **Hong, Q., Kwong, S. and Wang, H.** (2004). Optimization of gaussian mixture model parameters for speaker identification. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hornby(2004)] **Hornby, G. S.** (2004). Shortcomings with tree-structured edge encodings for neural networks. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Huang and Sun(2004)] **Huang, C.-Y. and Sun, C.-T.** (2004). Parameter adaptation within co-adaptive learning classifier systems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Hussain et al.(2004)Hussain, Montana and Vidaver] **Hussain, T., Montana, D. and Vidaver, G.** (2004). Evolution-based deliberative planning for cooperating unmanned ground vehicles in a dynamic environment. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Janikow(2004)] **Janikow, C. Z.** (2004). Adapting representation in genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Jung and Reggia(2004)] **Jung, J.-Y. and Reggia, J. A.** (2004). A descriptive encoding language for evolving modular neural networks. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kamalian et al.(2004)Kamalian, Takagi and Agogino] **Kamalian, R., Takagi, H. and Agogino, A. M.** (2004). Optimized design of mems by evolutionary multi-objective optimization with interactive evolutionary computation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Keedwell and Khu(2004)] **Keedwell, E. and Khu, S.-T.** (2004). Hybrid genetic algorithms for multi-objective optimisation of water distribution networks. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Keijzer et al.(2004)Keijzer, Ryan and Cattolico] **Keijzer, M., Ryan, C. and Cattolico, M.** (2004). Run transferable libraries – learning functional bias in problem domains. In K. Deb,

R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kim et al.(2004a)Kim, Choi and Moon] **Kim, J.-H., Choi, S.-S. and Moon, B.-R.** (2004a). Neural network normalization for genetic search. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kim et al.(2004b)Kim, Kim and Moon] **Kim, J.-P., Kim, Y.-H. and Moon, B.-R.** (2004b). A hybrid genetic approach for circuit bipartitioning. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kim and Moon(2004a)] **Kim, Y.-H. and Moon, B.-R.** (2004a). Distance measures in genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kim and Moon(2004b)] **Kim, Y.-H. and Moon, B.-R.** (2004b). Lagrange multiplier method for multi-campaign assignment problem. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kirshenbaum and Suermondt(2004)] **Kirshenbaum, E. and Suermondt, H. J.** (2004). Using genetic programming to obtain a closed-form approximation to a recursive function. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kleeman et al.(2004)Kleeman, Day and Lamont] **Kleeman, M. P., Day, R. O. and Lamont, G. B.** (2004). Analysis of a parallel moea solving the multi-objective quadratic assignment problem. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kordon et al.(2004)Kordon, Jordaan, Chew, Smits, Bruck, Haney and Jenings] **Kordon, A., Jordaan, E., Chew, L., Smits, G., Bruck, T., Haney, K. and Jenings, A.** (2004). Biomass inferential sensor based on ensemble of models generated by genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kovacs and Kerber(2004)] **Kovacs, T. and Kerber, M.** (2004). High classification accuracy does not imply effective genetic search. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kowaliw et al.(2004)Kowaliw, Kharma, Jensen, Moghnieh and Yao] **Kowaliw, T., Kharma, N., Jensen, C., Moghnieh, H. and Yao, J.** (2004). Cellnet co-ev: Evolving better pattern recognizers using competitive co-evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kwon and Moon(2004a)] **Kwon, Y.-K. and Moon, B.-R.** (2004a). Evolutionary ensemble for stock prediction. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Kwon and Moon(2004b)] **Kwon, Y.-K. and Moon, B.-R.** (2004b). Evolving features in neural networks for system identification. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lam and Ciesielski(2004)] **Lam, B. and Ciesielski, V.** (2004). Discovery of human-competitive image texture feature extraction programs using genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lammermann et al.(2004)Lammermann, Baresel and Wegener] **Lammermann, F., Baresel, A. and Wegener, J.** (2004). Evaluating evolutionary testability with software-measurements. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lefort et al.(2004)Lefort, Knibbe, Beslon and Favrel] **Lefort, V., Knibbe, C., Beslon, G. and Favrel, J.** (2004). A bio-inspired genetic algorithm with a self-organizing genome: The rbf-gene model. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Leier and Banzhaf(2004)] **Leier, A. and Banzhaf, W.** (2004). Comparison of selection strategies for evolutionary quantum circuit design. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Leon et al.(2004)Leon, Nasraoui and Gomez] **Leon, E., Nasraoui, O. and Gomez, J.** (2004). Network intrusion detection using genetic clustering. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Liang et al.(2004)Liang, Leung and Mok] **Liang, Y., Leung, K.-S. and Mok, T. S. K.** (2004). Evolutionary drug scheduling model for cancer chemotherapy. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Liu and Iba(2004)] **Liu, H. and Iba, H.** (2004). Humanoid robot programming based on cbr augmented gp. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Liu and Buller(2004)] **Liu, J. and Buller, A.** (2004). Evolving spike-train processors. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Llorá et al.(2004)Llorá, Ohnishi, ping Chen, Goldberg and Welge] **Llorá, X., Ohnishi, K., ping Chen, Y., Goldberg, D. E. and Welge, M. E.** (2004). Enhanced innovation: A fusion of chance discovery and evolutionary computation to foster creative processes and decision making. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Llorà and Wilson(2004)] **Llorà, X. and Wilson, S. W.** (2004). Mixed decision trees: Minimizing knowledge representation bias in lcs. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lloyd et al.(2004)Lloyd, Johnston and Salhi] **Lloyd, L. D., Johnston, R. L. and Salhi, S.** (2004). Development of a genetic algorithm for optimization of nanoalloys. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lobo(2004)] **Lobo, F. G.** (2004). A philosophical essay on life and its connections with genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lobo et al.(2004)Lobo, Lima and Mártires] **Lobo, F. G., Lima, C. F. and Mártires, H.** (2004). An architecture for massive parallelization of the compact genetic algorithm. In K. Deb, R. Poli,

W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Lu and Areibi(2004)] **Lu, G. and Areibi, S.** (2004). An island-based ga implementation for vlsi standard-cell placement. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Mabu et al.(2004)Mabu, Hirasawa and Hu] **Mabu, S., Hirasawa, K. and Hu, J.** (2004). Genetic network programming with reinforcement learning and its performance evaluation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Malinchik and Bonabeau(2004)] **Malinchik, S. and Bonabeau, E.** (2004). Exploratory data analysis with interactive evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Martikainen and Ovaska(2004)] **Martikainen, J. and Ovaska, S. J.** (2004). Designing multiplicative general parameter filters using adaptive genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Maslov(2004)] **Maslov, I. V.** (2004). Reducing the cost of the hybrid evolutionary algorithm with image local response in electronic imaging. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Massey et al.(2004)Massey, Clark and Stepney] **Massey, P., Clark, J. A. and Stepney, S.** (2004). Evolving quantum circuits and programs through genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Matsui et al.(2004)Matsui, Watanabe and ichi Tokoro] **Matsui, S., Watanabe, I. and ichi Tokoro, K.** (2004). Empirical performance evaluation of a parameter-free ga for jssp. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[McIntyre and Heywood(2004)] **McIntyre, A. and Heywood, M.** (2004). On multi-class classification by way of niching. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector,

A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[McMinn and Holcombe(2004)] **McMinn, P. and Holcombe, M.** (2004). Hybridizing evolutionary testing with the chaining approach. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[McPhee et al.(2004)McPhee, Jarvis and Crane] **McPhee, N. F., Jarvis, A. and Crane, E. F.** (2004). On the strength of size limits in linear genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Mitchell et al.(2004)Mitchell, Mancoridis and Traverso] **Mitchell, B. S., Mancoridis, S. and Traverso, M.** (2004). Using interconnection style rules to infer software architecture relations. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Mohr and Li(2004)] **Mohr, J. and Li, X.** (2004). A caching genetic algorithm for spectral breakpoint matching. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Moore et al.(2004)Moore, Williams and Sheppard] **Moore, R. L., Williams, A. and Sheppard, J.** (2004). Multi-agent simulation of airline travel markets. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Murata and Nakamura(2004)] **Murata, T. and Nakamura, T.** (2004). Multi-agent cooperation using genetic network programming with automatically defined groups. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Nagata(2004)] **Nagata, Y.** (2004). The lens design using the cma-es algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Nasraoui and Leon(2004)] **Nasraoui, O. and Leon, E.** (2004). Improved niching and encoding strategies for clustering noisy data sets. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Northern and Shanblatt(2004)] **Northern, J. and Shanblatt, M.** (2004). A multi-objective approach to configuring embedded system architectures. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[O'Neill et al.(2004)O'Neill, Brabazon, Nicolau, Garraghy and Keenan] **O'Neill, M., Brabazon, A., Nicolau, M., Garraghy, S. M. and Keenan, P.** (2004). πgrammatical evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Panait and Luke(2004)] **Panait, L. and Luke, S.** (2004). Alternative bloat control methods. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Paz-Ramos et al.(2004)Paz-Ramos, Torres-Jimenez, Quintero-Marmol-Marquez and Estrada-Esquivel] **Paz-Ramos, M. A., Torres-Jimenez, J., Quintero-Marmol-Marquez, E. and Estrada-Esquivel, H.** (2004). Pid controller tuning for stable and unstable processes applying ga. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Pedersen and Goldberg(2004)] **Pedersen, G. K. and Goldberg, D. E.** (2004). Dynamic uniform scaling for multiobjective genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Pelikan and Lin(2004)] **Pelikan, M. and Lin, T.-K.** (2004). Parameter-less hierarchical boa. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Pelikan et al.(2004)Pelikan, Ocenasek, Trebst, Troyer and Alet] **Pelikan, M., Ocenasek, J., Trebst, S., Troyer, M. and Alet, F.** (2004). Computational complexity and simulation of rare events of ising spin glasses. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Pelikan and Sastry(2004)] **Pelikan, M. and Sastry, K.** (2004). Fitness inheritance in the bayesian optimization algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Piaseczny et al.(2004)Piaseczny, Suzuki and Sawai] **Piaseczny, W., Suzuki, H. and Sawai, H.** (2004). Chemical genetic programming – coevolution between genotypic strings and phenotypic trees. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Pilat and Oppacher(2004)] **Pilat, M. L. and Oppacher, F.** (2004). Robotic control using hierarchical genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Quan and Soule(2004)] **Quan, W. and Soule, T.** (2004). A study of the role of single node mutation in genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Rashidi and Rashidi(2004)] **Rashidi, F. and Rashidi, M.** (2004). Limit cycle prediction in multivariable nonlinear systems using genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Reisinger et al.(2004)Reisinger, Stanley and Miikkulainen] **Reisinger, J., Stanley, K. O. and Miikkulainen, R.** (2004). Evolving reusable neural modules. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Renslow et al.(2004)Renslow, Hinkemeyer and Julstrom] **Renslow, M. A., Hinkemeyer, B. and Julstrom, B. A.** (2004). How are we doing? predicting evolutionary algorithm performance. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Rigal et al.(2004)Rigal, Castanier and ppe Castagliola] **Rigal, L., Castanier, B. and ppe Castagliola, P.** (2004). Introduction of a new selection parameter in genetic algorithm for constrained reliability design problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Rodriguez-Tello and Torres-Jimenez(2004)] **Rodriguez-Tello, E. and Torres-Jimenez, J.** (2004). Improving the performance of a genetic algorithm using a variable-reordering algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Rodríguez-Vázquez and Oliver-Morales(2004)] **Rodríguez-Vázquez, K. and Oliver-Morales, C.** (2004). Multi-branches genetic programming as a tool for function approximation. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Rotar(2004)] **Rotar, C.** (2004). An evolutionary technique for multicriterial optimization based on endocrine paradigm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ryan et al.(2004)Ryan, Majeed and Azad] **Ryan, C., Majeed, H. and Azad, A.** (2004). A competitive building block hypothesis. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sanderson(2004)] **Sanderson, R.** (2004). Automatic synthesis of an 802.11a wireless lan antenna using genetic programming a real world application. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sastry and Goldberg(2004a)] **Sastry, K. and Goldberg, D. E.** (2004a). Designing competent mutation operators via probabilistic model building of neighborhoods. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sastry and Goldberg(2004b)] **Sastry, K. and Goldberg, D. E.** (2004b). Let's get ready to rumble: Crossover versus mutation head to head. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sato(2004)] **Sato, Y.** (2004). Achieving shorter search times in voice conversion using interactive evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Schmitt(2004)] **Schmitt, L. M.** (2004). Classification with scaled genetic algorithms in a coevolutionary setting. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Seo et al.(2004a)Seo, Choi and Moon] **Seo, D.-I., Choi, S.-S. and Moon, B.-R.** (2004a). New epistasis measures for detecting independently optimizable partitions of variables. In K. Deb,

R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Seo et al.(2004b)Seo, Hu, Fan, Goodman and Rosenberg] **Seo, K., Hu, J., Fan, Z., Goodman, E. D. and Rosenberg, R. C.** (2004b). Hierarchical breeding control for efficient topology/parameter evolution. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sheng et al.(2004)Sheng, Tucker and Liu] **Sheng, W., Tucker, A. and Liu, X.** (2004). Clustering with niching genetic k-means algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sigaud et al.(2004)Sigaud, Gourdin and Wuillemin] **Sigaud, O., Gourdin, T. and Wuillemin, P.-H.** (2004). Improving macs thanks to a comparison with 2tbns. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Silva and Costa(2004)] **Silva, S. and Costa, E.** (2004). Dynamic limits for bloat control: Variations on size and depth. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Sim et al.(2004)Sim, Jung, Kim and Park] **Sim, E., Jung, S., Kim, H. and Park, J.** (2004). A generic network design for a closed-loop supply chain using genetic algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Soltoggio(2004)] **Soltoggio, A.** (2004). A comparison of genetic programming and genetic algorithms in the design of a robust, saturated control system. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Stanley and Miikkulainen(2004)] **Stanley, K. O. and Miikkulainen, R.** (2004). Evolving a roving eye for go. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Stephens et al.(2004)Stephens, Waelbroeck, Talley, Cruz and Ash] **Stephens, C., Waelbroeck, H., Talley, S., Cruz, R. and Ash, A.** (2004). Predicting healthcare costs using classifiers. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano,

J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Streeter(2004)] **Streeter, M. J.** (2004). Upper bounds on the time and space complexity of optimizing additively separable functions. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Streichert et al.(2004)Streichert, Ulmer and Zell] **Streichert, F., Ulmer, H. and Zell, A.** (2004). Comparing discrete and continuous genotypes on the constrained portfolio selection problem. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Stringer and Wu(2004)] **Stringer, H. and Wu, A. S.** (2004). Winnowing wheat from chaff: The chunking ga. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Taniguchi and Terano(2004)] **Taniguchi, K. and Terano, T.** (2004). Keeping the diversity with small populations using logic-based genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tavares et al.(2004)Tavares, Pereira and Costa] **Tavares, J., Pereira, F. B. and Costa, E.** (2004). Evolving golomb rulers. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tay and Wibowo(2004)] **Tay, J. C. and Wibowo, D.** (2004). An effective chromosome representation for evolving flexible job shop schedules. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Terrio and Heywood(2004)] **Terrio, M. D. and Heywood, M. I.** (2004). On naive crossover biases with reproduction for simple solutions to classification problems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tettamanzi et al.(2004)Tettamanzi, Sammartino, Simonov, Soroldoni and Beretta] **Tettamanzi, A., Sammartino, L., Simonov, M., Soroldoni, M. and Beretta, M.** (2004). Learning environment for life time value calculation of customers in insurance domain. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster,

M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tezuka et al.(2004)Tezuka, Munetomo and Akama] **Tezuka, M., Munetomo, M. and Akama, K.** (2004). Linkage identification by nonlinearity check for real-coded genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Thierens(2004)] **Thierens, D.** (2004). Population-based iterated local search: Restricting neighborhood search by crossover. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tsuji et al.(2004)Tsuji, Munetomo and Akama] **Tsuji, M., Munetomo, M. and Akama, K.** (2004). Modeling dependencies of loci with string classification according to fitness differences. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tulai and Oppacher(2004)] **Tulai, A. F. and Oppacher, F.** (2004). Multiple species weighted voting – a genetics-based machine learning system. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Tzschoppe et al.(2004)Tzschoppe, Rothlauf and Pesch] **Tzschoppe, C., Rothlauf, F. and Pesch, H.-J.** (2004). The edge-set encoding revisited: On the bias of a direct representation for trees. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Uyar et al.(2004)Uyar, Sariel and Eryigit] **Uyar, S., Sariel, S. and Eryigit, G.** (2004). A gene based adaptive mutation strategy for genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Vanneschi et al.(2004)Vanneschi, Clergue, Collard, Tomassini and Vérel] **Vanneschi, L., Clergue, M., Collard, P., Tomassini, M. and Vérel, S.** (2004). Fitness clouds and problem hardness in genetic programming. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Ványi(2004)] **Ványi, R.** (2004). Object oriented design and implementation of a general evolutionary algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta,

D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Vivanco and Pizzi(2004)] **Vivanco, R. and Pizzi, N.** (2004). Finding effective software metrics to classify maintainability using a parallel genetic algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Vogts and Pope(2004)] **Vogts, K. and Pope, N.** (2004). Generating compact rough cluster descriptions using an evolutionary algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wedde et al.(2004)Wedde, Farooq and Lischka] **Wedde, H. F., Farooq, M. and Lischka, M.** (2004). An evolutionary meta hierarchical scheduler for the linux operating system. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wegener and Bühler(2004)] **Wegener, J. and Bühler, O.** (2004). Evaluation of different fitness functions for the evolutionary testing of an autonomous parking system. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Weinert and Stautner(2004)] **Weinert, K. and Stautner, M.** (2004). Generating multiaxis tool paths for die and mold making with evolutionary algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Whitley et al.(2004a)Whitley, Bush and Rowe] **Whitley, D., Bush, K. and Rowe, J.** (2004a). Subthreshold-seeking behavior and robust local search. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Whitley et al.(2004b)Whitley, Lunacek and Knight] **Whitley, D., Lunacek, M. and Knight, J.** (2004b). Ruffled by ridges: How evolutionary algorithms can fail. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Willis-Ford and Soule(2004)] **Willis-Ford, C. and Soule, T.** (2004). Non-stationary subtasks can improve diversity in stationary tasks. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation –*

GECCO-2004, Part II, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wilson(2004)] **Wilson, S. W.** (2004). Classifier systems for continuous payoff environments. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wineberg and Chen(2004)] **Wineberg, M. and Chen, J.** (2004). The shifting balance genetic algorithm as more than just another island model ga. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wright and Cripe(2004)] **Wright, A. and Cripe, G.** (2004). Bistability of the needle function in the presence of truncation selection. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wright et al.(2004)Wright, Poli, Stephens, Langdon and Pulavarty] **Wright, A., Poli, R., Stephens, C. R., Langdon, W. and Pulavarty, S.** (2004). An estimation of distribution algorithm based on maximum entropy. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Wu et al.(2004)Wu, Tang, Zou, Kang and Li] **Wu, Z., Tang, Z., Zou, J., Kang, L. and Li, M.** (2004). An evolutionary algorithm for parameters identification in parabolic systems. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Yu et al.(2004)Yu, Jiang and Wu] **Yu, H., Jiang, N. and Wu, A. S.** (2004). Populating genomes in a dynamic grid. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Yu and Goldberg(2004a)] **Yu, T.-L. and Goldberg, D. E.** (2004a). Dependency structure matrix analysis: Offline utility of the dependency structure matrix genetic algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Yu and Goldberg(2004b)] **Yu, T.-L. and Goldberg, D. E.** (2004b). Toward an understanding of the quality and efficiency of model building for genetic algorithms. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[zena Hidovic and Rowe(2004)] **zena Hidovic, D. and Rowe, J. E.** (2004). Validating a model of colon colouration using an evolution strategy with adaptive approximations. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Zhan and Clark(2004)] **Zhan, Y. and Clark, J.** (2004). Search based automatic test-data generation at an architectural level. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.

[Zhu and Liu(2004)] **Zhu, K. Q. and Liu, Z.** (2004). Empirical study of population diversity in permutation-based genetic algorithm. In K. Deb, R. Poli, W. Banzhaf, H.-G. Beyer, E. Burke, P. Darwen, D. Dasgupta, D. Floreano, J. Foster, M. Harman, O. Holland, P. L. Lanzi, L. Spector, A. Tettamanzi, D. Thierens and A. Tyrrell, eds., *Genetic and Evolutionary Computation – GECCO-2004, Part II*, volume 3103 of *Lecture Notes in Computer Science*. Seattle, WA, USA: Springer-Verlag. ISBN 3-540-22343-6. ISSN 0302-9743.