

Список литературы

- [Adra *et al.*(2005)Adra, Griffin and Fleming] Adra, S.F., Griffin, I. and Fleming, P.J. (2005) ‘Hybrid multiobjective genetic algorithm with a new adaptive local search process’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1009–1010. doi:<http://dx.doi.org/10.1145/1068009.1068180>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1009.pdf>.
- [Affenzeller *et al.*(2005)Affenzeller, Wagner and Winkler] Affenzeller, M., Wagner, S. and Winkler, S. (2005) ‘Goal-oriented preservation of essential genetic information by offspring selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1595–1596. doi:<http://dx.doi.org/10.1145/1068009.1068276>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1595.pdf>.
- [Agogino *et al.*(2005)Agogino, Tumer and Miikkulainen] Agogino, A., Tumer, K. and Miikkulainen, R. (2005) ‘Efficient credit assignment through evaluation function decomposition’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1309–1316. doi:<http://dx.doi.org/10.1145/1068009.1068221>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1309.pdf>.
- [Aguilar-Ruiz and Divina(2005)] Aguilar-Ruiz, J.S. and Divina, F. (2005) ‘Ga-based approach to discover meaningful biclusters’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 473–474. doi: <http://dx.doi.org/10.1145/1068009.1068086>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p473.pdf>.
- [Ahn *et al.*(2005)Ahn, Oh and Ramakrishna] Ahn, C.W., Oh, S. and Ramakrishna, R.S. (2005) ‘On the practical genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1583–1584. doi: <http://dx.doi.org/10.1145/1068009.1068270>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1583.pdf>.
- [Ahrens(2005)] Ahrens, B. (2005) ‘Genetic algorithm optimization of superresolution parameters’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2083–2088. doi:<http://dx.doi.org/10.1145/1068009.1068354>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2083.pdf>.
- [Alba *et al.*(2005)Alba, Alfonso and Dorronsoro] Alba, E., Alfonso, H. and Dorronsoro, B. (2005) ‘Advanced models of cellular genetic algorithms evaluated on sat’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R.

- Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1123–1130. doi:<http://dx.doi.org/10.1145/1068009.1068197>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1123.pdf>.
- [Alim and Ivanov(2005)] Alim, F. and Ivanov, K. (2005) ‘Heuristic rules embedded genetic algorithm to solve in-core fuel management optimization problem’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2191–2192. doi: <http://dx.doi.org/10.1145/1068009.1068369>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2191.pdf>.
- [Amor and Rettinger(2005)] Amor, H.B. and Rettinger, A. (2005) ‘Intelligent exploration for genetic algorithms: using self-organizing maps in evolutionary computation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1531–1538. doi:<http://dx.doi.org/10.1145/1068009.1068250>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1531.pdf>.
- [Ando and Kobayashi(2005)] Ando, S. and Kobayashi, S. (2005) ‘Fitness-based neighbor selection for multimodal function optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1573–1574. doi: <http://dx.doi.org/10.1145/1068009.1068265>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1573.pdf>.
- [Ando et al.(2005)Ando, Sakuma and Kobayashi] Ando, S., Sakuma, J. and Kobayashi, S. (2005) ‘Adaptive isolation model using data clustering for multimodal function optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1417–1424. doi:<http://dx.doi.org/10.1145/1068009.1068235>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1417.pdf>.
- [Antolík and Hsu(2005)] Antolík, J. and Hsu, W.H. (2005) ‘Evolutionary tree genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1789–1790. doi:<http://dx.doi.org/10.1145/1068009.1068312>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1789.pdf>.
- [Ashlock and Kim(2005)] Ashlock, D. and Kim, E.Y. (2005) ‘The impact of cellular representation on finite state agents for prisoner’s dilemma’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 59–66. doi:<http://dx.doi.org/10.1145/1068009.1068018>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p59.pdf>.

- [Auger *et al.*(2005)Auger, Schoenauer and Teytaud] Auger, A., Schoenauer, M. and Teytaud, O. (2005) ‘Local and global order 3/2 convergence of a surrogate evolutionary algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 857–864. doi:<http://dx.doi.org/10.1145/1068009.1068154>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p857.pdf>.
- [Auwatanamongkol(2005)] Auwatanamongkol, S. (2005) ‘Inexact pattern matching using genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1567–1568. doi:<http://dx.doi.org/10.1145/1068009.1068262>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1567.pdf>.
- [Bacardit(2005)] Bacardit, J. (2005) ‘Analysis of the initialization stage of a pittsburgh approach learning classifier system’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1843–1850. doi:<http://dx.doi.org/10.1145/1068009.1068321>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1843.pdf>.
- [Barbosa and Lemonge(2005)] Barbosa, H.J. and Lemonge, A.C. (2005) ‘A genetic algorithm encoding for a class of cardinality constraints’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1193–1200. doi: <http://dx.doi.org/10.1145/1068009.1068206>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1193.pdf>.
- [Bassett *et al.*(2005)Bassett, Potter and De Jong] Bassett, J.K., Potter, M.A. and De Jong, K.A. (2005) ‘Applying price’s equation to survival selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1371–1378. doi: <http://dx.doi.org/10.1145/1068009.1068229>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1371.pdf>.
- [Becerra and Coello Coello(2005)] Becerra, R.L. and Coello Coello, C.A. (2005) ‘Optimization with constraints using a cultured differential evolution approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 27–34. doi:<http://dx.doi.org/10.1145/1068009.1068014>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p27.pdf>.
- [Bello *et al.*(2005)Bello, Nowe, Caballero, Gómez and Vrancx] Bello, R., Nowe, A., Caballero, Y., Gómez, Y. and Vrancx, P. (2005) ‘A model based on ant colony system and rough set theory to feature selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P.

- Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 275–276. doi: <http://dx.doi.org/10.1145/1068009.1068053>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p275.pdf>.
- [Berntsson and Tang(2005a)] Berntsson, J. and Tang, M. (2005a) ‘Adaptive sizing of populations and number of islands in distributed genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1575–1576. doi: <http://dx.doi.org/10.1145/1068009.1068266>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1575.pdf>.
- [Berntsson and Tang(2005b)] Berntsson, J. and Tang, M. (2005b) ‘Dynamic optimization of migration topology in internet-based distributed genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1579–1580. doi: <http://dx.doi.org/10.1145/1068009.1068268>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1579.pdf>.
- [Besetti and Soule(2005)] Besetti, S. and Soule, T. (2005) ‘Function choice, resiliency and growth in genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1771–1772. doi:<http://dx.doi.org/10.1145/1068009.1068303>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1771.pdf>.
- [Beyer *et al.*(2005)] Beyer, O’Reilly, Arnold, Banzhaf, Blum, Bonabeau, Cantu-Paz, Dasgupta, Deb, Foster, de Jong, Lipson, Beyer, H.G., O’Reilly, U.M., Arnold, D.V., Banzhaf, W., Blum, C., Bonabeau, E.W., Cantu-Paz, E., Dasgupta, D., Deb, K., Foster, J.A., de Jong, E.D., Lipson, H., Llorca, X., Mancoridis, S., Pelikan, M., Raidl, G.R., Soule, T., Tyrrell, A.M., Watson, J.P. and Zitzler, E., (eds.) (2005) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*. Washington DC, USA: ACM Press. Available at: <http://portal.acm.org/citation.cfm?id=1068009&jmp=cit&coll=GUIDE&dl=GUIDE&CFID=48779769&CFTOKEN=55479664#supp>.
- [Bongard and Lipson(2005)] Bongard, J.C. and Lipson, H. (2005) ‘‘managed challenge’’ alleviates disengagement in co-evolutionary system identification’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 531–538. doi: <http://dx.doi.org/10.1145/1068009.1068097>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p531.pdf>.
- [Borenstein and Poli(2005a)] Borenstein, Y. and Poli, R. (2005a) ‘Information landscapes’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1515–1522. doi:<http://dx.doi.org/10.1145/1068009.1068248>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1515.pdf>.
- [Borenstein and Poli(2005b)] Borenstein, Y. and Poli, R. (2005b) ‘Information landscapes and problem hardness’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau,

- E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1425–1431. doi:<http://dx.doi.org/10.1145/1068009.1068236>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1425.pdf>.
- [Borgulya(2005)] Borgulya, I. (2005) ‘A hybrid evolutionary algorithm for the p-median problem’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 649–650. doi:<http://dx.doi.org/10.1145/1068009.1068118>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p649.pdf>.
- [Bosman and de Jong(2005)] Bosman, P.A.N. and de Jong, E.D. (2005) ‘Exploiting gradient information in numerical multi-objective evolutionary optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 755–762. doi:<http://dx.doi.org/10.1145/1068009.1068138>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p755.pdf>.
- [Brabazon et al.(2005)] Brabazon, Silva, de Sousa, O’Neill, Matthews and Costa] Brabazon, A., Silva, A., de Sousa, T.F., O’Neill, M., Matthews, R. and Costa, E. (2005) ‘Agent-based modelling of product invention’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 129–136. doi:<http://dx.doi.org/10.1145/1068009.1068027>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p129.pdf>.
- [Bradstreet et al.(2005)] Bradstreet, Barone and While] Bradstreet, L., Barone, L. and While, L. (2005) ‘Map-labelling with a multi-objective evolutionary algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1937–1944. doi:<http://dx.doi.org/10.1145/1068009.1068335>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1937.pdf>.
- [Branke et al.(2005)] Branke, Salihoğlu and İma Uyar] Branke, J., Salihoğlu, E. and İma Uyar (2005) ‘Towards an analysis of dynamic environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1433–1440. doi:<http://dx.doi.org/10.1145/1068009.1068237>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1433.pdf>.
- [Breukelaar and Bäck(2005)] Breukelaar, R. and Bäck, T. (2005) ‘Using a genetic algorithm to evolve behavior in multi dimensional cellular automata: emergence of behavior’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 107–114. doi:<http://dx.doi.org/10.1145/1068009.1068024>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p107.pdf>.

- [Briand *et al.*(2005)Briand, Labiche and Shousha] Briand, L.C., Labiche, Y. and Shousha, M. (2005) ‘Stress testing real-time systems with genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1021–1028. doi: <http://dx.doi.org/10.1145/1068009.1068183>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1021.pdf>.
- [Browne and Scott(2005)] Browne, W. and Scott, D. (2005) ‘An abstraction algorithm for genetics-based reinforcement learning’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1875–1882. doi: <http://dx.doi.org/10.1145/1068009.1068325>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1875.pdf>.
- [Bucci and Pollack(2005)] Bucci, A. and Pollack, J.B. (2005) ‘On identifying global optima in cooperative coevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 539–544. doi:<http://dx.doi.org/10.1145/1068009.1068098>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p539.pdf>.
- [Budynek *et al.*(2005)Budynek, Bonabeau and Shargel] Budynek, J., Bonabeau, E. and Shargel, B. (2005) ‘Evolving computer intrusion scripts for vulnerability assessment and log analysis’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1905–1912. doi:<http://dx.doi.org/10.1145/1068009.1068331>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1905.pdf>.
- [Bui *et al.*(2005a)Bui, Abbass and Essam] Bui, L.T., Abbass, H.A. and Essam, D. (2005a) ‘Fitness inheritance for noisy evolutionary multi-objective optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 779–785. doi:<http://dx.doi.org/10.1145/1068009.1068141>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p779.pdf>.
- [Bui *et al.*(2005b)Bui, Branke and Abbass] Bui, L.T., Branke, J. and Abbass, H.A. (2005b) ‘Diversity as a selection pressure in dynamic environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1557–1558. doi: <http://dx.doi.org/10.1145/1068009.1068257>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1557.pdf>.
- [Bui and Colpan(2005)] Bui, T.N. and Colpan, M. (2005) ‘Solving geometric tsp with ants’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington

- DC, USA: ACM Press, pp. 271–272. doi:<http://dx.doi.org/10.1145/1068009.1068051>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p271.pdf>.
- [Bui and Sundarraj(2005)] Bui, T.N. and Sundarraj, G. (2005) ‘An efficient genetic algorithm for predicting protein tertiary structures in the 2d hp model’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 385–392. doi: <http://dx.doi.org/10.1145/1068009.1068072>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p385.pdf>.
- [Butz(2005)] Butz, M.V. (2005) ‘Kernel-based, ellipsoidal conditions in the real-valued xcs classifier system’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1835–1842. doi:<http://dx.doi.org/10.1145/1068009.1068320>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1835.pdf>.
- [Butz *et al.*(2005)Butz, Pelikan, Llorca and Goldberg] Butz, M.V., Pelikan, M., Llorca, X. and Goldberg, D.E. (2005) ‘Extracted global structure makes local building block processing effective in xcs’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 655–662. doi:<http://dx.doi.org/10.1145/1068009.1068121>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p655.pdf>.
- [Cairns *et al.*(2005)Cairns, Cameron and Wess] Cairns, D.E., Cameron, G.J. and Wess, T.J. (2005) ‘Evolving an improved axial structure for fibrillar collagen’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 471–472. doi: <http://dx.doi.org/10.1145/1068009.1068085>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p471.pdf>.
- [Canfora *et al.*(2005)Canfora, Penta, Esposito and Villani] Canfora, G., Penta, M.D., Esposito, R. and Villani, M.L. (2005) ‘An approach for qos-aware service composition based on genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1069–1075. doi:<http://dx.doi.org/10.1145/1068009.1068189>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1069.pdf>.
- [Carter *et al.*(2005)Carter, Ebdon and Neal-Sturgess] Carter, E., Ebdon, S. and Neal-Sturgess, C. (2005) ‘Optimization of passenger car design for the mitigation of pedestrian head injury using a genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2113–2120. doi:<http://dx.doi.org/10.1145/1068009.1068358>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2113.pdf>.
- [Castillo and Villa(2005)] Castillo, F.A. and Villa, C.M. (2005) ‘Symbolic regression in multicollinearity problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf,

- C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2207–2208. doi:<http://dx.doi.org/10.1145/1068009.1068377>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2207.pdf>.
- [Cavill *et al.*(2005)Cavill, Smith and Tyrrell] Cavill, R., Smith, S. and Tyrrell, A. (2005) ‘Multi-chromosomal genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1753–1759. doi: <http://dx.doi.org/10.1145/1068009.1068300>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1753.pdf>.
- [Cazangi *et al.*(2005)Cazangi, Von Zuben and Figueiredo] Cazangi, R.R., Von Zuben, F.J. and Figueiredo, M.F. (2005) ‘Autonomous navigation system applied to collective robotics with ant-inspired communication’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 121–128. doi:<http://dx.doi.org/10.1145/1068009.1068026>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p121.pdf>.
- [hsiang Chan *et al.*(2005)hsiang Chan, Lee, Kao and Tsai] hsiung Chan, C., Lee, S.A., Kao, C.Y. and Tsai, H.K. (2005) ‘Improving eax with restricted 2-opt’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1471–1476. doi: <http://dx.doi.org/10.1145/1068009.1068242>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1471.pdf>.
- [Che *et al.*(2005)Che, Song and Rasheed] Che, D., Song, Y. and Rasheed, K. (2005) ‘Mdga: motif discovery using a genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 447–452. doi: <http://dx.doi.org/10.1145/1068009.1068080>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p447.pdf>.
- [Chen *et al.*(2005)Chen, Ho and Goldberg] Chen, J.H., Ho, S.Y. and Goldberg, D.E. (2005) ‘Quality-time analysis of multi-objective evolutionary algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1455–1462. doi: <http://dx.doi.org/10.1145/1068009.1068240>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1455.pdf>.
- [Chen and Pitt(2005)] Chen, S. and Pitt, G. (2005) ‘Isolating the benefits of respect’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1601–1602. doi:<http://dx.doi.org/10.1145/1068009.1068279>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1601.pdf>.

- [Cherba *et al.*(2005)Cherba, Punch, Duxbury, Billinge and Juhas] Cherba, D.M., Punch, W., Duxbury, P., Billinge, S. and Juhas, P. (2005) ‘Conformation of an ideal bucky ball molecule by genetic algorithm and geometric constraint from pair distance data: genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1565–1566. doi:<http://dx.doi.org/10.1145/1068009.1068261>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1565.pdf>.
- [Choi *et al.*(2005a)Choi, Jung and Kim] Choi, S.S., Jung, K. and Kim, J.H. (2005a) ‘Phase transition in a random nk landscape model’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1241–1248. doi: <http://dx.doi.org/10.1145/1068009.1068212>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1241.pdf>.
- [Choi *et al.*(2005b)Choi, Moon and Seo] Choi, Y.S., Moon, B.R. and Seo, S.Y. (2005b) ‘Genetic fuzzy discretization with adaptive intervals for classification problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2037–2043. doi:<http://dx.doi.org/10.1145/1068009.1068348>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2037.pdf>.
- [Cochenour *et al.*(2005)Cochenour, Simon, Das, Pahwa and Nag] Cochenour, G., Simon, J., Das, S., Pahwa, A. and Nag, S. (2005) ‘A pareto archive evolutionary strategy based radial basis function neural network training algorithm for failure rate prediction in overhead feeders’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2127–2132. doi:<http://dx.doi.org/10.1145/1068009.1068360>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2127.pdf>.
- [Collins(2005)] Collins, M. (2005) ‘Finding needles in haystacks is harder with neutrality’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1613–1618. doi:<http://dx.doi.org/10.1145/1068009.1068282>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1613.pdf>.
- [Cong *et al.*(2005)Cong, Sha, Jiao and Liu] Cong, L., Sha, Y., Jiao, L. and Liu, F. (2005) ‘Directional self-learning of genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1569–1570. doi: <http://dx.doi.org/10.1145/1068009.1068263>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1569.pdf>.
- [Cui and Zeng(2005)] Cui, Z. and Zeng, J. (2005) ‘A modified particle swarm optimization predicted by velocity’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.)

GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation, vol. 1. Washington DC, USA: ACM Press, pp. 277–278. doi:<http://dx.doi.org/10.1145/1068009.1068054>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p277.pdf>.

- [Díaz and Romay(2005)] Díaz, D.S. and Romay, M.G. (2005) ‘Introducing a watermarking with a multi-objective genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2219–2220. doi: <http://dx.doi.org/10.1145/1068009.1068383>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2219.pdf>.
- [Dahal *et al.*(2005)] Dahal, Galloway, Burt, McDonald and Hopkins] Dahal, K.P., Galloway, S.J., Burt, G.M., McDonald, J.R. and Hopkins, I. (2005) ‘A case study of process facility optimization using discrete event simulation and genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2197–2198. doi: <http://dx.doi.org/10.1145/1068009.1068372>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2197.pdf>.
- [Daida(2005)] Daida, J.M. (2005) ‘Towards identifying populations that increase the likelihood of success in genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1627–1634. doi: <http://dx.doi.org/10.1145/1068009.1068284>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1627.pdf>.
- [Daida *et al.*(2005)] Daida, Samples and Byom] Daida, J.M., Samples, M.E. and Byom, M.J. (2005) ‘Probing for limits to building block mixing with a tunably-difficult problem for genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1713–1720. doi:<http://dx.doi.org/10.1145/1068009.1068295>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1713.pdf>.
- [Dam *et al.*(2005)] Dam, Abbass and Lokan] Dam, H.H., Abbass, H.A. and Lokan, C. (2005) ‘Dxcs: an xcs system for distributed data mining’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1883–1890. doi: <http://dx.doi.org/10.1145/1068009.1068326>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1883.pdf>.
- [Daoud and Kharma(2005)] Daoud, M. and Kharma, N. (2005) ‘Gats 1.0: a novel ga-based scheduling algorithm for task scheduling on heterogeneous processor nets’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2209–2210. doi:<http://dx.doi.org/10.1145/1068009.1068378>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2209.pdf>.

- [Das *et al.*(2005a)Das, Konar and Chakraborty] Das, S., Konar, A. and Chakraborty, U.K. (2005a) ‘An efficient evolutionary algorithm applied to the design of two-dimensional iir filters’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2157–2163. doi:<http://dx.doi.org/10.1145/1068009.1068364>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2157.pdf>.
- [Das *et al.*(2005b)Das, Konar and Chakraborty] Das, S., Konar, A. and Chakraborty, U.K. (2005b) ‘Improving particle swarm optimization with differentially perturbed velocity’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 177–184. doi:<http://dx.doi.org/10.1145/1068009.1068037>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p177.pdf>.
- [Das *et al.*(2005c)Das, Konar and Chakraborty] Das, S., Konar, A. and Chakraborty, U.K. (2005c) ‘Two improved differential evolution schemes for faster global search’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 991–998. doi:<http://dx.doi.org/10.1145/1068009.1068177>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p991.pdf>.
- [Day *et al.*(2005)Day, Nunez and Lamont] Day, R.O., Nunez, A.S. and Lamont, G.B. (2005) ‘Moea design of robust digital symbol sets’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2213–2214. doi: <http://dx.doi.org/10.1145/1068009.1068380>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2213.pdf>.
- [de França *et al.*(2005)de França, Von Zuben and de Castro] de França, F.O., Von Zuben, F.J. and de Castro, L.N. (2005) ‘An artificial immune network for multimodal function optimization on dynamic environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 289–296. doi:<http://dx.doi.org/10.1145/1068009.1068057>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p289.pdf>.
- [de Jong(2005)] de Jong, E. (2005) ‘The maxsolve algorithm for coevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 483–489. doi:<http://dx.doi.org/10.1145/1068009.1068091>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p483.pdf>.
- [de Jong *et al.*(2005)de Jong, Watson and Thierens] de Jong, E.D., Watson, R.A. and Thierens, D. (2005) ‘On the complexity of hierarchical problem solving’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation, vol. 2. Washington DC, USA: ACM Press, pp. 1201–1208. doi: <http://dx.doi.org/10.1145/1068009.1068207>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1201.pdf>.
- [de Silva and Suzuki(2005)] de Silva, U.C. and Suzuki, J. (2005) ‘On the stationary distribution of gas with fixed crossover probability’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1147–1151. doi: <http://dx.doi.org/10.1145/1068009.1068200>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1147.pdf>.
- [Defaweux et al.(2005)] Defaweux, A., Lenaerts, T., van Hemert, J. and Parent, J. (2005) ‘Transition models as an incremental approach for problem solving in evolutionary algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 599–606. doi: <http://dx.doi.org/10.1145/1068009.1068110>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p599.pdf>.
- [Dempsey et al.(2005)] Dempsey, I., O’Neill, M. and Brabazon, A. (2005) ‘Meta-grammar constant creation with grammatical evolution by grammatical evolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1665–1671. doi: <http://dx.doi.org/10.1145/1068009.1068289>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1665.pdf>.
- [Derderian et al.(2005)] Derderian, K., Hierons, R.M., Harman, M. and Guo, Q. (2005) ‘Generating feasible input sequences for extended finite state machines (efsms) using genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1081–1082. doi: <http://dx.doi.org/10.1145/1068009.1068192>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1081.pdf>.
- [Diaz-Gomez and Hougen(2005)] Diaz-Gomez, P.A. and Hougen, D.F. (2005) ‘Analysis and mathematical justification of a fitness function used in an intrusion detection system’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1591–1592. doi: <http://dx.doi.org/10.1145/1068009.1068274>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1591.pdf>.
- [Ding and Yu(2005)] Ding, L. and Yu, J. (2005) ‘Some theoretical results about the computation time of evolutionary algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1409–1415. doi: <http://dx.doi.org/10.1145/1068009.1068234>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1409.pdf>.

- [Downing(2005)] Downing, K.L. (2005) ‘The predictive basis of situated and embodied artificial intelligence’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 43–50. doi:<http://dx.doi.org/10.1145/1068009.1068016>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p43.pdf>.
- [Droste(2005)] Droste, S. (2005) ‘Not all linear functions are equally difficult for the compact genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 679–686. doi:<http://dx.doi.org/10.1145/1068009.1068124>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p679.pdf>.
- [Drugowitsch and Barry(2005)] Drugowitsch, J. and Barry, A.M. (2005) ‘Xcs with eligibility traces’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1851–1858. doi:<http://dx.doi.org/10.1145/1068009.1068322>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1851.pdf>.
- [Duarte et al.(2005)] Duarte, A., Seng, F. and Cabido, R. (2005) ‘A low-level hybridization between memetic algorithm and vns for the max-cut problem’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 999–1006. doi:<http://dx.doi.org/10.1145/1068009.1068178>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p999.pdf>.
- [Duong and Grefenstette(2005)] Duong, D.V. and Grefenstette, J. (2005) ‘The emulation of social institutions as a method of coevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 555–556. doi: <http://dx.doi.org/10.1145/1068009.1068101>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p555.pdf>.
- [Ecemis et al.(2005)] Ecemis, I., Bonabeau, E. and Ashburn, T. (2005) ‘Interactive estimation of agent-based financial markets models: modularity and learning’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1897–1904. doi:<http://dx.doi.org/10.1145/1068009.1068330>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1897.pdf>.
- [Eiben et al.(2005)] Eiben, A.E., Schut, M.C. and Toma, T. (2005) ‘Comparing multicast and newscast communication in evolving agent societies’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference*

on *Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 75–81. doi:<http://dx.doi.org/10.1145/1068009.1068020>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p75.pdf>.

- [El-Abd and Kamel(2005)] El-Abd, M. and Kamel, M. (2005) ‘Factors governing the behavior of multiple cooperating swarms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 269–270. doi: <http://dx.doi.org/10.1145/1068009.1068050>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p269.pdf>.
- [Fenton and Walsh(2005)] Fenton, P. and Walsh, P. (2005) ‘A comparison of messy ga and permutation based ga for job shop scheduling’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1593–1594. doi: <http://dx.doi.org/10.1145/1068009.1068275>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1593.pdf>.
- [Ferreira *et al.*(2005)] Ferreira, Vasconcelos and Adeodato] Ferreira, T.A.E., Vasconcelos, G.C. and Adeodato, P.J.L. (2005) ‘A new evolutionary method for time series forecasting’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2221–2222. doi:<http://dx.doi.org/10.1145/1068009.1068384>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2221.pdf>.
- [Ferretti and Esquivel(2005)] Ferretti, E. and Esquivel, S. (2005) ‘Knowledge insertion: an efficient approach to reduce effort in simple genetic algorithms for unrestricted parallel equal machines scheduling’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1587–1588. doi:<http://dx.doi.org/10.1145/1068009.1068272>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1587.pdf>.
- [Ficici(2005)] Ficici, S.G. (2005) ‘Monotonic solution concepts in coevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 499–506. doi:<http://dx.doi.org/10.1145/1068009.1068093>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p499.pdf>.
- [Firpi *et al.*(2005)] Firpi, Goodman and Echauz] Firpi, H., Goodman, E. and Echauz, J. (2005) ‘Epileptic seizure detection by means of genetically programmed artificial features’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 461–466. doi:<http://dx.doi.org/10.1145/1068009.1068082>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p461.pdf>.
- [Fleischer(2005)] Fleischer, M. (2005) ‘Scale invariant pareto optimality: a meta-formalism for characterizing and modeling cooperativity in evolutionary systems’. In H.G. Beyer, U.M.

- O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 233–240. doi:<http://dx.doi.org/10.1145/1068009.1068044>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p233.pdf>.
- [Foong *et al.*(2005)Foong, Maier and Simpson] Foong, W.K., Maier, H.R. and Simpson, A.R. (2005) 'Ant colony optimization for power plant maintenance scheduling optimization'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 249–256. doi:<http://dx.doi.org/10.1145/1068009.1068046>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p249.pdf>.
- [Foreman and Evett(2005)] Foreman, N. and Evett, M. (2005) 'Preventing overfitting in gp with canary functions'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1779–1780. doi:<http://dx.doi.org/10.1145/1068009.1068307>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1779.pdf>.
- [Funes and Pujals(2005)] Funes, P. and Pujals, E. (2005) 'Intransitivity revisited coevolutionary dynamics of numbers games'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 515–521. doi: <http://dx.doi.org/10.1145/1068009.1068095>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p515.pdf>.
- [Galeano *et al.*(2005)Galeano, Veloza-Suan and González] Galeano, J.C., Veloza-Suan, A. and González, F.A. (2005) 'A comparative analysis of artificial immune network models'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 361–368. doi:<http://dx.doi.org/10.1145/1068009.1068066>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p361.pdf>.
- [Garibay *et al.*(2005)Garibay, Wu and Garibay] Garibay, I., Wu, A.S. and Garibay, O. (2005) 'On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1177–1184. doi:<http://dx.doi.org/10.1145/1068009.1068204>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1177.pdf>.
- [Garrett *et al.*(2005)Garrett, Vannucci, Silva, Dasgupta and Simien] Garrett, D., Vannucci, J., Silva, R., Dasgupta, D. and Simien, J. (2005) 'Genetic algorithms for the sailor assignment problem'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington

DC, USA: ACM Press, pp. 1921–1928. doi:<http://dx.doi.org/10.1145/1068009.1068333>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1921.pdf>.

- [Geem *et al.*(2005)Geem, Lee and Tseng] Geem, Z.W., Lee, K.S. and Tseng, C.L. (2005) ‘Harmony search for structural design’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 651–652. doi: <http://dx.doi.org/10.1145/1068009.1068119>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p651.pdf>.
- [Gelly *et al.*(2005)Gelly, Teytaud, Bredeche and Schoenauer] Gelly, S., Teytaud, O., Bredeche, N. and Schoenauer, M. (2005) ‘A statistical learning theory approach of bloat’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1783–1784. doi:<http://dx.doi.org/10.1145/1068009.1068309>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1783.pdf>.
- [Giacobini *et al.*(2005)Giacobini, Tomassini and Tettamanzi] Giacobini, M., Tomassini, M. and Tettamanzi, A. (2005) ‘Takeover time curves in random and small-world structured populations’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1333–1340. doi:<http://dx.doi.org/10.1145/1068009.1068224>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1333.pdf>.
- [Giráldez and Aguilar-Ruiz(2005)] Giráldez, R. and Aguilar-Ruiz, J.S. (2005) ‘Feature influence for evolutionary learning’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1139–1145. doi: <http://dx.doi.org/10.1145/1068009.1068199>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1139.pdf>.
- [Gomez and Schmidhuber(2005)] Gomez, F.J. and Schmidhuber, J. (2005) ‘Co-evolving recurrent neurons learn deep memory pomdps’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 491–498. doi: <http://dx.doi.org/10.1145/1068009.1068092>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p491.pdf>.
- [Gong *et al.*(2005a)Gong, Jiao, Du, Shang and Lu] Gong, M., Jiao, L., Du, H., Shang, R. and Lu, B. (2005a) ‘Performance assessment of an artificial immune system multiobjective optimizer by two improved metrics’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 373–374. doi:<http://dx.doi.org/10.1145/1068009.1068069>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p373.pdf>.
- [Gong *et al.*(2005b)Gong, Wang, Jiao and Du] Gong, M., Wang, L., Jiao, L. and Du, H. (2005b) ‘An artificial immune system algorithm for cdma multiuser detection over multi-path channels’. In

- H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2105–2111. doi:<http://dx.doi.org/10.1145/1068009.1068357>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2105.pdf>.
- [Gong *et al.*(2005c)Gong, Nakamura and Tamaki] Gong, Y., Nakamura, M. and Tamaki, S. (2005c) 'Parallel genetic algorithms on line topology of heterogeneous computing resources'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1447–1454. doi:<http://dx.doi.org/10.1145/1068009.1068239>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1447.pdf>.
- [González et al.(2005)González, Galeano, Rojas and Veloza-Suan] González, F.A., Galeano, J.C., Rojas, D.A. and Veloza-Suan, A. (2005) 'Discriminating and visualizing anomalies using negative selection and self-organizing maps'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 297–304. doi:<http://dx.doi.org/10.1145/1068009.1068058>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p297.pdf>.
- [Gordon and Bentley(2005)] Gordon, T.G.W. and Bentley, P.J. (2005) 'Bias and scalability in evolutionary development'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 83–90. doi:<http://dx.doi.org/10.1145/1068009.1068021>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p83.pdf>.
- [Graham *et al.*(2005)Graham, Masum and Oppacher] Graham, L., Masum, H. and Oppacher, F. (2005) 'Statistical analysis of heuristics for evolving sorting networks'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1265–1270. doi:<http://dx.doi.org/10.1145/1068009.1068215>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1265.pdf>.
- [Grasemann and Miikkulainen(2005)] Grasemann, U. and Miikkulainen, R. (2005) 'Effective image compression using evolved wavelets'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1961–1968. doi: <http://dx.doi.org/10.1145/1068009.1068338>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1961.pdf>.
- [Greene(2005)] Greene, W.A. (2005) 'Schema disruption in tree-structured chromosomes'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC,

USA: ACM Press, pp. 1401–1408. doi:<http://dx.doi.org/10.1145/1068009.1068233>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1401.pdf>.

- [Grosso *et al.*(2005)Grosso, Antoniol, Penta, Galinier and Merlo] Grosso, C.D., Antoniol, G., Penta, M.D., Galinier, P. and Merlo, E. (2005) ‘Improving network applications security: a new heuristic to generate stress testing data’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1037–1043. doi: <http://dx.doi.org/10.1145/1068009.1068185>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1037.pdf>.
- [Gunia(2005)] Gunia, C. (2005) ‘On the analysis of the approximation capability of simple evolutionary algorithms for scheduling problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 571–578. doi: <http://dx.doi.org/10.1145/1068009.1068106>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p571.pdf>.
- [Guo *et al.*(2005)Guo, Han and Tay] Guo, Z., Han, H.K. and Tay, J.C. (2005) ‘Sufficiency verification of hiv-1 pathogenesis based on multi-agent simulation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 305–312. doi: <http://dx.doi.org/10.1145/1068009.1068059>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p305.pdf>.
- [Guofang *et al.*(2005)Guofang, Minqiang and Jisong] Guofang, N., Minqiang, L. and Jisong, K. (2005) ‘Multi-level genetic algorithm (mlga) for the construction of clock binary tree’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1441–1445. doi:<http://dx.doi.org/10.1145/1068009.1068238>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1441.pdf>.
- [H.(2005)] H., J.A.M. (2005) ‘Search space modulation in genetic algorithms: evolving the search space by sinusoidal transformations’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1559–1560. doi: <http://dx.doi.org/10.1145/1068009.1068258>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1559.pdf>.
- [Haas *et al.*(2005)Haas, Peysakhov and Mancoridis] Haas, J., Peysakhov, M. and Mancoridis, S. (2005) ‘Ga-based parameter tuning for multi-agent systems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1085–1086. doi:<http://dx.doi.org/10.1145/1068009.1068194>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1085.pdf>.
- [Han and Bhanu(2005)] Han, J. and Bhanu, B. (2005) ‘Hierarchical multi-sensor image registration using evolutionary computation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf,

- C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2045–2052. doi: <http://dx.doi.org/10.1145/1068009.1068349>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2045.pdf>.
- [Hang and Dai(2005)] Hang, X. and Dai, H. (2005) ‘Applying both positive and negative selection to supervised learning for anomaly detection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 345–352. doi: <http://dx.doi.org/10.1145/1068009.1068064>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p345.pdf>.
- [Harman *et al.*(2005)Harman, Swift and Mahdavi] Harman, M., Swift, S. and Mahdavi, K. (2005) ‘An empirical study of the robustness of two module clustering fitness functions’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1029–1036. doi:<http://dx.doi.org/10.1145/1068009.1068184>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1029.pdf>.
- [Hartmann(2005)] Hartmann, V. (2005) ‘Evolving agent swarms for clustering and sorting’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 217–224. doi:<http://dx.doi.org/10.1145/1068009.1068042>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p217.pdf>.
- [Hasenjäger *et al.*(2005)Hasenjäger, Sendhoff, Sonoda and Arima] Hasenjäger, M., Sendhoff, B., Sonoda, T. and Arima, T. (2005) ‘Three dimensional evolutionary aerodynamic design optimization with cma-es’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2173–2180. doi:<http://dx.doi.org/10.1145/1068009.1068366>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2173.pdf>.
- [Hernandez *et al.*(2005)Hernandez, Wilder, Nino and Garcia] Hernandez, G., Wilder, K., Nino, F. and Garcia, J. (2005) ‘Towards a self-stopping evolutionary algorithm using coupling from the past’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 615–620. doi:<http://dx.doi.org/10.1145/1068009.1068112>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p615.pdf>.
- [Hijazi *et al.*(2005)Hijazi, Natarajan and Das] Hijazi, S.L., Natarajan, B. and Das, S. (2005) ‘An ant colony algorithm for multi-user detection in wireless communication systems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press,

pp. 2121–2126. doi:<http://dx.doi.org/10.1145/1068009.1068359>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2121.pdf>.

- [Hiroyasu *et al.*(2005)Hiroyasu, Miki, Nakayama and Hanada] Hiroyasu, T., Miki, M., Nakayama, S. and Hanada, Y. (2005) ‘Multi-objective optimization of diesel engine emissions and fuel economy using spea2+’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2195–2196. doi:<http://dx.doi.org/10.1145/1068009.1068371>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2195.pdf>.
- [Ho and Shimizu(2005)] Ho, P.Y. and Shimizu, K. (2005) ‘Simple addition of ranking method for constrained optimization in evolutionary algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 889–896. doi: <http://dx.doi.org/10.1145/1068009.1068158>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p889.pdf>.
- [Hohm and Hoffmann(2005)] Hohm, T. and Hoffmann, D. (2005) ‘A multi-objective evolutionary approach to peptide structure redesign and stabilization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 423–429. doi: <http://dx.doi.org/10.1145/1068009.1068077>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p423.pdf>.
- [Hong *et al.*(2005)Hong, Ren and Zeng] Hong, Y., Ren, Q. and Zeng, J. (2005) ‘Genetic drift in univariate marginal distribution algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 745–746. doi: <http://dx.doi.org/10.1145/1068009.1068133>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p745.pdf>.
- [Horn(2005)] Horn, J. (2005) ‘Shape nesting by coevolving species’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 557–558. doi:<http://dx.doi.org/10.1145/1068009.1068102>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p557.pdf>.
- [Hornby(2005)] Hornby, G.S. (2005) ‘Measuring, enabling and comparing modularity, regularity and hierarchy in evolutionary design’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1729–1736. doi: <http://dx.doi.org/10.1145/1068009.1068297>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1729.pdf>.
- [Hu *et al.*(2005)Hu, Zhong and Goodman] Hu, J., Zhong, X. and Goodman, E.D. (2005) ‘Open-ended robust design of analog filters using genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V.

- Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1619–1626. doi: <http://dx.doi.org/10.1145/1068009.1068283>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1619.pdf>.
- [Huang *et al.*(2005)Huang, Bieniawski, Wolpert and Strauss] Huang, C.F., Bieniawski, S., Wolpert, D.H. and Strauss, C.E.M. (2005) ‘A comparative study of probability collectives based multi-agent systems and genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 751–752. doi: <http://dx.doi.org/10.1145/1068009.1068136>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p751.pdf>.
- [Huang and Rocha(2005)] Huang, C.F. and Rocha, L.M. (2005) ‘Tracking extrema in dynamic environments using a coevolutionary agent-based model of genotype edition’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 545–552. doi:<http://dx.doi.org/10.1145/1068009.1068099>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p545.pdf>.
- [Hunt *et al.*(2005)Hunt, Hornby and Lohn] Hunt, R., Hornby, G.S. and Lohn, J.D. (2005) ‘Toward evolved flight’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 957–964. doi:<http://dx.doi.org/10.1145/1068009.1068172>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p957.pdf>.
- [Iglesias *et al.*(2005)Iglesias, Naudts, Verschoren and Vidal] Iglesias, M.T., Naudts, B., Verschoren, A. and Vidal, C. (2005) ‘Walsh transforms, balanced sum theorems and partition coefficients over multary alphabets’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1303–1308. doi:<http://dx.doi.org/10.1145/1068009.1068220>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1303.pdf>.
- [Ishibuchi and Narukawa(2005)] Ishibuchi, H. and Narukawa, K. (2005) ‘Comparison of evolutionary multiobjective optimization with reference solution-based single-objective approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 787–794. doi:<http://dx.doi.org/10.1145/1068009.1068142>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p787.pdf>.
- [Ishibuchi *et al.*(2005)Ishibuchi, Narukawa and Nojima] Ishibuchi, H., Narukawa, K. and Nojima, Y. (2005) ‘An empirical study on the handling of overlapping solutions in evolutionary multiobjective optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation, vol. 1. Washington DC, USA: ACM Press, pp. 817–824. doi:
<http://dx.doi.org/10.1145/1068009.1068146>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p817.pdf>.
- [Jagerskaper and Witt(2005)] Jagerskaper, J. and Witt, C. (2005) ‘Rigorous runtime analysis of a (1+1)es for the sphere function’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 849–856. doi:<http://dx.doi.org/10.1145/1068009.1068153>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p849.pdf>.
- [Jackson(2005a)] Jackson, D. (2005a) ‘Dormant program nodes and the efficiency of genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1745–1751. doi:<http://dx.doi.org/10.1145/1068009.1068299>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1745.pdf>.
- [Jackson(2005b)] Jackson, D. (2005b) ‘Parsing and translation of expressions by genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1681–1688. doi:<http://dx.doi.org/10.1145/1068009.1068291>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1681.pdf>.
- [Janikow and Mann(2005)] Janikow, C.Z. and Mann, C.J. (2005) ‘Cgp visits the santa fe trail: effects of heuristics on gp’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1697–1704. doi:<http://dx.doi.org/10.1145/1068009.1068293>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1697.pdf>.
- [Jansen and Schellbach(2005)] Jansen, T. and Schellbach, U. (2005) ‘Theoretical analysis of a mutation-based evolutionary algorithm for a tracking problem in the lattice’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 841–848. doi:<http://dx.doi.org/10.1145/1068009.1068152>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p841.pdf>.
- [Ji and Dasgupta(2005)] Ji, Z. and Dasgupta, D. (2005) ‘Estimating the detector coverage in a negative selection algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 281–288. doi:<http://dx.doi.org/10.1145/1068009.1068056>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p281.pdf>.
- [Jin et al.(2005)] Jin, Kao, Huang, Hsu, Lee and Lee] Jin, M.H., Kao, C.Y., Huang, Y.C., Hsu, D.F., Lee, R.G. and Lee, C.K. (2005) ‘Compact genetic algorithm for active interval scheduling in hierarchical sensor networks’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf,

- C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2205–2206. doi: <http://dx.doi.org/10.1145/1068009.1068376>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2205.pdf>.
- [Julstrom(2005a)] Julstrom, B.A. (2005a) ‘The blob code is competitive with edge-sets in genetic algorithms for the minimum routing cost spanning tree problem’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 585–590. doi:<http://dx.doi.org/10.1145/1068009.1068108>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p585.pdf>.
- [Julstrom(2005b)] Julstrom, B.A. (2005b) ‘Greedy, genetic, and greedy genetic algorithms for the quadratic knapsack problem’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 607–614. doi: <http://dx.doi.org/10.1145/1068009.1068111>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p607.pdf>.
- [Kavka *et al.*(2005)] Kavka, Roggero and Schoenauer] Kavka, C., Roggero, P. and Schoenauer, M. (2005) ‘Evolution of voronoi based fuzzy recurrent controllers’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1385–1392. doi:<http://dx.doi.org/10.1145/1068009.1068231>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1385.pdf>.
- [Keijzer *et al.*(2005)] Keijzer, Baptist, Babovic and Uthurburu] Keijzer, M., Baptist, M., Babovic, V. and Uthurburu, J.R. (2005) ‘Determining equations for vegetation induced resistance using genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1999–2006. doi:<http://dx.doi.org/10.1145/1068009.1068343>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1999.pdf>.
- [Kennedy(2005)] Kennedy, J. (2005) ‘Dynamic-probabilistic particle swarms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 201–207. doi:<http://dx.doi.org/10.1145/1068009.1068040>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p201.pdf>.
- [Keymeulen *et al.*(2005)] Keymeulen, Fink, Ferguson, Peay, Oks, Terrile and Yee] Keymeulen, D., Fink, W., Ferguson, M.I., Peay, C., Oks, B., Terrile, R. and Yee, K. (2005) ‘Evolutionary computation applied to the tuning of mems gyroscopes’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA:

- ACM Press, pp. 927–932. doi:<http://dx.doi.org/10.1145/1068009.1068168>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p927.pdf>.
- [Kicinger *et al.*(2005)Kicinger, Arciszewski and De Jong] Kicinger, R., Arciszewski, T. and De Jong, K. (2005) ‘Parameterized versus generative representations in structural design: an empirical comparison’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2007–2014. doi:<http://dx.doi.org/10.1145/1068009.1068344>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2007.pdf>.
- [Kim *et al.*(2005)Kim, Choi and Moon] Kim, J.H., Choi, S.S. and Moon, B.R. (2005) ‘Normalization for neural network in genetic search’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1581–1582. doi: <http://dx.doi.org/10.1145/1068009.1068269>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1581.pdf>.
- [Kim and Moon(2005)] Kim, Y.H. and Moon, B.R. (2005) ‘New topologies for genetic search space’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1393–1399. doi:<http://dx.doi.org/10.1145/1068009.1068232>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1393.pdf>.
- [Kimura and Matsumura(2005)] Kimura, S. and Matsumura, K. (2005) ‘Genetic algorithms using low-discrepancy sequences’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1341–1346. doi:<http://dx.doi.org/10.1145/1068009.1068225>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1341.pdf>.
- [Knidel *et al.*(2005)Knidel, de Castro and Von Zuben] Knidel, H., de Castro, L.N. and Von Zuben, F.J. (2005) ‘Rabnet: a real-valued antibody network for data clustering’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 371–372. doi:<http://dx.doi.org/10.1145/1068009.1068068>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p371.pdf>.
- [Koduru *et al.*(2005)Koduru, Das, Welch, Roe and Lopez-Dee] Koduru, P., Das, S., Welch, S., Roe, J.L. and Lopez-Dee, Z.P. (2005) ‘A co-evolutionary hybrid algorithm for multi-objective optimization of gene regulatory network models’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 393–399. doi: <http://dx.doi.org/10.1145/1068009.1068073>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p393.pdf>.
- [Konak and Smith(2005)] Konak, A. and Smith, A.E. (2005) ‘Designing resilient networks using a hybrid genetic algorithm approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf,

- C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1279–1285. doi: <http://dx.doi.org/10.1145/1068009.1068217>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1279.pdf>.
- [Koza *et al.*(2005)Koza, Al-Sakran and Jones] Koza, J.R., Al-Sakran, S.H. and Jones, L.W. (2005) ‘Automated re-invention of six patented optical lens systems using genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1953–1960. doi:<http://dx.doi.org/10.1145/1068009.1068337>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1953.pdf>.
- [Kramer *et al.*(2005)Kramer, Ting and Büning] Kramer, O., Ting, C.K. and Büning, H.K. (2005) ‘A mutation operator for evolution strategies to handle constrained problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 917–918. doi:<http://dx.doi.org/10.1145/1068009.1068163>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p917.pdf>.
- [Kurz and Canterbury(2005)] Kurz, M.E. and Canterbury, S. (2005) ‘Minimizing total flowtime and maximum earliness on a single machine using multiple measures of fitness’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 803–809. doi:<http://dx.doi.org/10.1145/1068009.1068144>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p803.pdf>.
- [Kwon *et al.*(2005)Kwon, Choi and Moon] Kwon, Y.K., Choi, S.S. and Moon, B.R. (2005) ‘Stock prediction based on financial correlation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2061–2066. doi: <http://dx.doi.org/10.1145/1068009.1068351>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2061.pdf>.
- [Kwon and Moon(2005)] Kwon, Y.K. and Moon, B.R. (2005) ‘Nonlinear feature extraction using a neuro genetic hybrid’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2089–2096. doi:<http://dx.doi.org/10.1145/1068009.1068355>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2089.pdf>.
- [Lameijer *et al.*(2005)Lameijer, IJzerman and Kok] Lameijer, E.W., IJzerman, A. and Kok, J. (2005) ‘The molecule evaluator: an interactive evolutionary algorithm for designing drug molecules’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington

- DC, USA: ACM Press, pp. 1969–1976. doi:<http://dx.doi.org/10.1145/1068009.1068339>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1969.pdf>.
- [Lammermann and Wappler(2005)] Lammermann, F. and Wappler, S. (2005) ‘Benefits of software measures for evolutionary white-box testing’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1083–1084. doi: <http://dx.doi.org/10.1145/1068009.1068193>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1083.pdf>.
- [Landau et al.(2005)] Landau, Sigaud and Schoenauer] Landau, S., Sigaud, O. and Schoenauer, M. (2005) ‘Atmospheres revisited’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1867–1874. doi: <http://dx.doi.org/10.1145/1068009.1068324>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1867.pdf>.
- [Lanzi et al.(2005a)]Lanzi, Loiacono, Wilson and Goldberg] Lanzi, P.L., Loiacono, D., Wilson, S.W. and Goldberg, D.E. (2005a) ‘Extending xcsf beyond linear approximation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1827–1834. doi:<http://dx.doi.org/10.1145/1068009.1068319>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1827.pdf>.
- [Lanzi et al.(2005b)]Lanzi, Loiacono, Wilson and Goldberg] Lanzi, P.L., Loiacono, D., Wilson, S.W. and Goldberg, D.E. (2005b) ‘Xcs with computed prediction in multistep environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1859–1866. doi:<http://dx.doi.org/10.1145/1068009.1068323>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1859.pdf>.
- [Lasarczyk and Banzhaf(2005)] Lasarczyk, C.W.G. and Banzhaf, W. (2005) ‘Total synthesis of algorithmic chemistries’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1635–1640. doi:<http://dx.doi.org/10.1145/1068009.1068285>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1635.pdf>.
- [León-Barranco et al.(2005)]León-Barranco, Barajas and Reyes] León-Barranco, A., Barajas, S.E. and Reyes, C.A. (2005) ‘Argen + arepo: mixing the artificial genetic engineering and artificial evolution of populations to improve the search process’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1597–1598. doi:<http://dx.doi.org/10.1145/1068009.1068277>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1597.pdf>.
- [Lee and Bulitko(2005)] Lee, G. and Bulitko, V. (2005) ‘Gamm: genetic algorithms with meta-models for vision’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W.

- Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2029–2036. doi:<http://dx.doi.org/10.1145/1068009.1068347>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2029.pdf>.
- [Legg and Hutter(2005)] Legg, S. and Hutter, M. (2005) ‘Fitness uniform deletion: a simple way to preserve diversity’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1271–1278. doi:<http://dx.doi.org/10.1145/1068009.1068216>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1271.pdf>.
- [Lehmann and Kaufmann(2005)] Lehmann, K.A. and Kaufmann, M. (2005) ‘Evolutionary algorithms for the self-organized evolution of networks’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 563–570. doi: <http://dx.doi.org/10.1145/1068009.1068105>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p563.pdf>.
- [Li et al.(2005)Li, Azarm and Aute] Li, M., Azarm, S. and Aute, V. (2005) ‘A multi-objective genetic algorithm for robust design optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 771–778. doi: <http://dx.doi.org/10.1145/1068009.1068140>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p771.pdf>.
- [Li(2005)] Li, X. (2005) ‘Efficient differential evolution using speciation for multimodal function optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 873–880. doi:<http://dx.doi.org/10.1145/1068009.1068156>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p873.pdf>.
- [Liang et al.(2005)Liang, Lee and Wu] Liang, H.L., Lee, C. and Wu, J.S. (2005) ‘Multiplex pcr primer design for gene family using genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 67–74. doi:<http://dx.doi.org/10.1145/1068009.1068019>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p67.pdf>.
- [Lim and Sim(2005)] Lim, C. and Sim, E. (2005) ‘Production planning in manufacturing/remanufacturing environment using genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2217–2218. doi:<http://dx.doi.org/10.1145/1068009.1068382>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2217.pdf>.

- [Lima *et al.*(2005)Lima, Sastry, Goldberg and Lobo] Lima, C.F., Sastry, K., Goldberg, D.E. and Lobo, F.G. (2005) 'Combining competent crossover and mutation operators: a probabilistic model building approach'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 735–742. doi:<http://dx.doi.org/10.1145/1068009.1068131>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p735.pdf>.
- [Lin *et al.*(2005)Lin, Huang, Huang and Horng] Lin, F.M., Huang, H.D., Huang, H.Y. and Horng, J.T. (2005) 'Primer design for multiplex pcr using a genetic algorithm'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 475–476. doi:<http://dx.doi.org/10.1145/1068009.1068087>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p475.pdf>.
- [Liu *et al.*(2005)Liu, Chen, Chen, Hwang and Ho] Liu, B.F., Chen, H.M., Chen, J.H., Hwang, S.F. and Ho, S.Y. (2005) 'Meswarm: memetic particle swarm optimization'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 267–268. doi:<http://dx.doi.org/10.1145/1068009.1068049>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p267.pdf>.
- [Liu and Lampinen(2005)] Liu, J. and Lampinen, J. (2005) 'A differential evolution based incremental training method for rbf networks'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 881–888. doi: <http://dx.doi.org/10.1145/1068009.1068157>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p881.pdf>.
- [Llorca et al.(2005a)Llorca, Sastry and Goldberg] Llorca, X., Sastry, K. and Goldberg, D.E. (2005a) 'The compact classifier system: motivation, analysis, and first results'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1993–1994. doi:<http://dx.doi.org/10.1145/1068009.1068328>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1993.pdf>.
- [Llorca et al.(2005b)Llorca, Sastry, Goldberg, Gupta and Lakshmi] Llorca, X., Sastry, K., Goldberg, D.E., Gupta, A. and Lakshmi, L. (2005b) 'Combating user fatigue in igas: partial ordering, support vector machines, and synthetic fitness'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1363–1370. doi:<http://dx.doi.org/10.1145/1068009.1068228>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1363.pdf>.
- [Looks *et al.*(2005)Looks, Goertzel and Pennachin] Looks, M., Goertzel, B. and Pennachin, C. (2005) 'Learning computer programs with the bayesian optimization algorithm'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl,

- T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 747–748. doi:<http://dx.doi.org/10.1145/1068009.1068134>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p747.pdf>.
- [Luke(2005)] Luke, S. (2005) ‘Evolutionary computation and the c-value paradox’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 91–97. doi:<http://dx.doi.org/10.1145/1068009.1068022>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p91.pdf>.
- [Lunacek *et al.*(2005)Lunacek, Whitley and Knight] Lunacek, M., Whitley, D. and Knight, J.N. (2005) ‘Measuring mobility and the performance of global search algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1209–1216. doi:<http://dx.doi.org/10.1145/1068009.1068208>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1209.pdf>.
- [Luo *et al.*(2005)Luo, Heywood and Zincir-Heywood] Luo, X., Heywood, M.I. and Zincir-Heywood, A.N. (2005) ‘Evolving recurrent models using linear gp’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1787–1788. doi: <http://dx.doi.org/10.1145/1068009.1068311>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1787.pdf>.
- [Lyman and Lewandowski(2005)] Lyman, M. and Lewandowski, G. (2005) ‘Genetic programming for association rules on card sorting data’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1551–1552. doi: <http://dx.doi.org/10.1145/1068009.1068254>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1551.pdf>.
- [Majeed *et al.*(2005)Majeed, Ryan and Azad] Majeed, H., Ryan, C. and Azad, R.M.A. (2005) ‘Evaluating gp schema in context’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1773–1774. doi: <http://dx.doi.org/10.1145/1068009.1068304>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1773.pdf>.
- [Martin(2005)] Martin, J.G. (2005) ‘Subproblem optimization by gene correlation with singular value decomposition’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1507–1514. doi:<http://dx.doi.org/10.1145/1068009.1068247>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1507.pdf>.
- [Massey *et al.*(2005)Massey, Clark and Stepney] Massey, P., Clark, J.A. and Stepney, S. (2005) ‘Evolution of a human-competitive quantum fourier transform algorithm using genetic

- programming'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1657–1663. doi:<http://dx.doi.org/10.1145/1068009.1068288>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1657.pdf>.
- [Matos *et al.*(2005)Matos, Suzuki and Arita] Matos, A., Suzuki, R. and Arita, T. (2005) 'Evolutionary models for maternal effects in simulated developmental systems'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 149–150. doi:<http://dx.doi.org/10.1145/1068009.1068032>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p149.pdf>.
- [McLoughlin, III and Cedeño(2005)] McLoughlin, III, J.F. and Cedeño, W. (2005) 'The enhanced evolutionary tabu search and its application to the quadratic assignment problem'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 975–982. doi:<http://dx.doi.org/10.1145/1068009.1068175>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p975.pdf>.
- [McMinn and Holcombe(2005)] McMinn, P. and Holcombe, M. (2005) 'Evolutionary testing of state-based programs'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1013–1020. doi:<http://dx.doi.org/10.1145/1068009.1068182>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1013.pdf>.
- [McPartland *et al.*(2005)McPartland, Nolfi and Abbass] McPartland, M., Nolfi, S. and Abbass, H.A. (2005) 'Emergence of communication in competitive multi-agent systems: a pareto multi-objective approach'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 51–58. doi:<http://dx.doi.org/10.1145/1068009.1068017>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p51.pdf>.
- [McPhee and Crane(2005)] McPhee, N.F. and Crane, E.F. (2005) 'A theoretical analysis of the hiff problem'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1153–1160. doi:<http://dx.doi.org/10.1145/1068009.1068201>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1153.pdf>.
- [Meekhof and Heckendorn(2005)] Meekhof, T. and Heckendorn, R.B. (2005) 'Using evolutionary optimization to improve markov-based classification with limited training data'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC,

USA: ACM Press, pp. 2211–2212. doi:<http://dx.doi.org/10.1145/1068009.1068379>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2211.pdf>.

- [Mellor(2005)] Mellor, D. (2005) ‘A first order logic classifier system’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1819–1826. doi:<http://dx.doi.org/10.1145/1068009.1068318>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1819.pdf>.
- [Mezura-Montes *et al.*(2005)] Mezura-Montes, Velázquez-Reyes and Coello Coello] Mezura-Montes, E., Velázquez-Reyes, J. and Coello Coello, C.A. (2005) ‘Promising infeasibility and multiple offspring incorporated to differential evolution for constrained optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 225–232. doi:<http://dx.doi.org/10.1145/1068009.1068043>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p225.pdf>.
- [Mierswa(2005)] Mierswa, I. (2005) ‘Incorporating fuzzy knowledge into fitness: multiobjective evolutionary 3d design of process plants’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1985–1992. doi: <http://dx.doi.org/10.1145/1068009.1068341>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1985.pdf>.
- [Monson and Seppi(2005a)] Monson, C.K. and Seppi, K.D. (2005a) ‘Bayesian optimization models for particle swarms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 193–200. doi:<http://dx.doi.org/10.1145/1068009.1068039>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p193.pdf>.
- [Monson and Seppi(2005b)] Monson, C.K. and Seppi, K.D. (2005b) ‘Exposing origin-seeking bias in pso’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 241–248. doi:<http://dx.doi.org/10.1145/1068009.1068045>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p241.pdf>.
- [Montana and Redi(2005)] Montana, D. and Redi, J. (2005) ‘Optimizing parameters of a mobile ad hoc network protocol with a genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1993–1998. doi: <http://dx.doi.org/10.1145/1068009.1068342>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1993.pdf>.
- [Moore(2005)] Moore, F.W. (2005) ‘A genetic algorithm for optimized reconstruction of quantized one-dimensional signals’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and

- E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1599–1600. doi:<http://dx.doi.org/10.1145/1068009.1068278>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1599.pdf>.
- [Mori *et al.*(2005)Mori, Takeda and Matsumoto] Mori, N., Takeda, M. and Matsumoto, K. (2005) ‘A comparison study between genetic algorithms and bayesian optimize algorithms by novel indices’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1485–1492. doi:<http://dx.doi.org/10.1145/1068009.1068244>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1485.pdf>.
- [Murata and Nakamura(2005)] Murata, T. and Nakamura, T. (2005) ‘Genetic network programming with automatically defined groups for assigning proper roles to multiple agents’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1705–1712. doi:<http://dx.doi.org/10.1145/1068009.1068294>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1705.pdf>.
- [Murata and Yamaguchi(2005)] Murata, T. and Yamaguchi, M. (2005) ‘Neighboring crossover to improve ga-based q-learning method for multi-legged robot control’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 145–146. doi:<http://dx.doi.org/10.1145/1068009.1068030>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p145.pdf>.
- [Nashvili *et al.*(2005)Nashvili, Olhofer and Sendhoff] Nashvili, M., Olhofer, M. and Sendhoff, B. (2005) ‘Morphing methods in evolutionary design optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 897–904. doi:<http://dx.doi.org/10.1145/1068009.1068159>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p897.pdf>.
- [Nassu *et al.*(2005)Nassu, Duarte, Jr. and Pozo] Nassu, B.T., Duarte, Jr., E.P. and Pozo, A.T.R. (2005) ‘A comparison of evolutionary algorithms for system-level diagnosis’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2053–2060. doi:<http://dx.doi.org/10.1145/1068009.1068350>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2053.pdf>.
- [Neumann and Wegener(2005)] Neumann, F. and Wegener, I. (2005) ‘Minimum spanning trees made easier via multi-objective optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 763–769. doi:<http://dx.doi.org/10.1145/1068009.1068139>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p763.pdf>.

- [Noman and Iba(2005a)] Noman, N. and Iba, H. (2005a) ‘Enhancing differential evolution performance with local search for high dimensional function optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 967–974. doi: <http://dx.doi.org/10.1145/1068009.1068174>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p967.pdf>.
- [Noman and Iba(2005b)] Noman, N. and Iba, H. (2005b) ‘Inference of gene regulatory networks using s-system and differential evolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 439–446. doi: <http://dx.doi.org/10.1145/1068009.1068079>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p439.pdf>.
- [Nummela and Julstrom(2005)] Nummela, J. and Julstrom, B.A. (2005) ‘Evolving petri nets to represent metabolic pathways’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2133–2139. doi: <http://dx.doi.org/10.1145/1068009.1068361>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2133.pdf>.
- [Nunn and White(2005)] Nunn, I. and White, T. (2005) ‘The application of antigenic search techniques to time series forecasting’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 353–360. doi:<http://dx.doi.org/10.1145/1068009.1068065>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p353.pdf>.
- [Ohnishi and Yoshida(2005)] Ohnishi, K. and Yoshida, K. (2005) ‘Evolutionary change in developmental timing’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1561–1562. doi:<http://dx.doi.org/10.1145/1068009.1068259>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1561.pdf>.
- [Ondas *et al.*(2005)] Ondas, R., Pelikan, M. and Sastry, K. (2005) ‘Scalability of genetic programming and probabilistic incremental program evolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1785–1786. doi:<http://dx.doi.org/10.1145/1068009.1068310>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1785.pdf>.
- [Ong *et al.*(2005)] Ong, T.J., Saunders, R., Keyser, J. and Leggett, J.J. (2005) ‘Terrain generation using genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation, vol. 2. Washington DC, USA: ACM Press, pp. 1463–1470. doi:
<http://dx.doi.org/10.1145/1068009.1068241>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1463.pdf>.
- [Pakhira and De(2005)] Pakhira, M.K. and De, R.K. (2005) ‘A hardware pipeline for function optimization using genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 949–956. doi:
<http://dx.doi.org/10.1145/1068009.1068171>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p949.pdf>.
- [Pardoe et al.(2005)] Pardoe, Ryoo and Miikkulainen] Pardoe, D., Ryoo, M. and Miikkulainen, R. (2005) ‘Evolving neural network ensembles for control problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1379–1384. doi:
<http://dx.doi.org/10.1145/1068009.1068230>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1379.pdf>.
- [Parker and Georgescu(2005)] Parker, G. and Georgescu, R. (2005) ‘Evolution of multi-loop controllers for fixed morphology with a cyclic genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 147–148. doi:
<http://dx.doi.org/10.1145/1068009.1068031>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p147.pdf>.
- [Paszynska(2005)] Paszynska, A. (2005) ‘An extension of vose’s markov chain model for genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1553–1554. doi:
<http://dx.doi.org/10.1145/1068009.1068255>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1553.pdf>.
- [Paul et al.(2005)] Paul, Lipson and Cuevas] Paul, C., Lipson, H. and Cuevas, F.J.V. (2005) ‘Evolutionary form-finding of tensegrity structures’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 3–10. doi:
<http://dx.doi.org/10.1145/1068009.1068011>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p3.pdf>.
- [Paul and Iba(2005)] Paul, T.K. and Iba, H. (2005) ‘Extraction of informative genes from microarray data’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 453–460. doi:
<http://dx.doi.org/10.1145/1068009.1068081>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p453.pdf>.
- [Payne and Eppstein(2005)] Payne, J.L. and Eppstein, M.J. (2005) ‘A hybrid genetic algorithm with pattern search for finding heavy atoms in protein crystals’. In H.G. Beyer, U.M. O’Reilly, D.V.

- Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 377–384. doi: <http://dx.doi.org/10.1145/1068009.1068071>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p377.pdf>.
- [Peña *et al.*(2005)Peña, Rionda and Aguirre] Peña, S.I.V., Rionda, S.B. and Aguirre, A.H. (2005) ‘Multiobjective shape optimization with constraints based on estimation distribution algorithms and correlated information’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 749–750. doi: <http://dx.doi.org/10.1145/1068009.1068135>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p749.pdf>.
- [Pelikan *et al.*(2005)Pelikan, Sastry and Goldberg] Pelikan, M., Sastry, K. and Goldberg, D.E. (2005) ‘Multiobjective hboa, clustering, and scalability’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 663–670. doi: <http://dx.doi.org/10.1145/1068009.1068122>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p663.pdf>.
- [Perelman and Ostfeld(2005)] Perelman, L. and Ostfeld, A. (2005) ‘Water distribution systems optimal design using cross entropy’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 647–648. doi:<http://dx.doi.org/10.1145/1068009.1068117>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p647.pdf>.
- [Peterson *et al.*(2005)Peterson, Doom and Raymer] Peterson, M.R., Doom, T.E. and Raymer, M.L. (2005) ‘Ga-facilitated classifier optimization with varying similarity measures’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1549–1550. doi:<http://dx.doi.org/10.1145/1068009.1068253>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1549.pdf>.
- [Pham(2005)] Pham, Q.T. (2005) ‘Evolutionary optimization of dynamic control problems accelerated by progressive step reduction’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2181–2187. doi: <http://dx.doi.org/10.1145/1068009.1068367>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2181.pdf>.
- [Phienthrakul and Kijirikul(2005)] Phienthrakul, T. and Kijirikul, B. (2005) ‘Evolutionary strategies for multi-scale radial basis function kernels in support vector machines’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM

Press, pp. 905–911. doi:<http://dx.doi.org/10.1145/1068009.1068160>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p905.pdf>.

- [Philemotte and Bersini(2005)] Philemotte, C. and Bersini, H. (2005) ‘Intrinsic emergence boosts adaptive capacity’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 559–560. doi:<http://dx.doi.org/10.1145/1068009.1068103>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p559.pdf>.
- [Pillay(2005)] Pillay, N. (2005) ‘An investigation into using genetic programming as a means of inducing solutions to novice procedural programming problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1781–1782. doi:<http://dx.doi.org/10.1145/1068009.1068308>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1781.pdf>.
- [Poladian(2005)] Poladian, L. (2005) ‘A ga for maximum likelihood phylogenetic inference using neighbour-joining as a genotype to phenotype mapping’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 415–422. doi:<http://dx.doi.org/10.1145/1068009.1068076>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p415.pdf>.
- [Poli *et al.*(2005)] Poli, Di Chio and Langdon] Poli, R., Di Chio, C. and Langdon, W.B. (2005) ‘Exploring extended particle swarms: a genetic programming approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 169–176. doi:<http://dx.doi.org/10.1145/1068009.1068036>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p169.pdf>.
- [Poli and Langdon(2005)] Poli, R. and Langdon, W.B. (2005) ‘Backward-chaining genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1777–1778. doi:<http://dx.doi.org/10.1145/1068009.1068306>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1777.pdf>.
- [Popovici and De Jong(2005)] Popovici, E. and De Jong, K. (2005) ‘Understanding cooperative co-evolutionary dynamics via simple fitness landscapes’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 507–514. doi:<http://dx.doi.org/10.1145/1068009.1068094>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p507.pdf>.
- [Preuss *et al.*(2005)] Preuss, Schönemann and Emmerich] Preuss, M., Schönemann, L. and Emmerich, M. (2005) ‘Counteracting genetic drift and disruptive recombination in (μ+)λ-ea on multimodal fitness landscapes’. In H.G. Beyer, U.M. O’Reilly,

- D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 865–872. doi:<http://dx.doi.org/10.1145/1068009.1068155>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p865.pdf>.
- [Prodan *et al.*(2005)Prodan, Udrescu and Vladutiu] Prodan, L., Udrescu, M. and Vladutiu, M. (2005) ‘Multiple-level concatenated coding in embryonics: a dependability analysis’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 941–948. doi:<http://dx.doi.org/10.1145/1068009.1068170>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p941.pdf>.
- [Quintana *et al.*(2005)Quintana, Luque and Isasi] Quintana, D., Luque, C. and Isasi, P. (2005) ‘Evolutionary rule-based system for ipo underpricing prediction’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 983–989. doi:<http://dx.doi.org/10.1145/1068009.1068176>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p983.pdf>.
- [Rand and Riolo(2005)] Rand, W. and Riolo, R. (2005) ‘The problem with a self-adaptative mutation rate in some environments: a case study using the shaky ladder hyperplane-defined functions’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1493–1500. doi:<http://dx.doi.org/10.1145/1068009.1068245>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1493.pdf>.
- [Raquel and Naval, Jr.(2005)] Raquel, C.R. and Naval, Jr., P.C. (2005) ‘An effective use of crowding distance in multiobjective particle swarm optimization’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 257–264. doi:<http://dx.doi.org/10.1145/1068009.1068047>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p257.pdf>.
- [Ravichandran *et al.*(2005)Ravichandran, Gandhe and Smith] Ravichandran, B., Gandhe, A. and Smith, R.E. (2005) ‘Xcs for robust automatic target recognition’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1803–1810. doi:<http://dx.doi.org/10.1145/1068009.1068316>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1803.pdf>.
- [Reis *et al.*(2005)Reis, Machado and Cunha] Reis, C., Machado, J.A.T. and Cunha, J.B. (2005) ‘Fractional dynamic fitness functions for ga-based circuit design’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC,

USA: ACM Press, pp. 1571–1572. doi:<http://dx.doi.org/10.1145/1068009.1068264>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1571.pdf>.

- [Ressom *et al.*(2005)Ressom, Varghese, Saha, Orvisky, Goldman, Petricoin, Conrads, Veenstra, Abdel-Hamid, Loffredo and R. (2005) ‘Particle swarm optimization for analysis of mass spectral serum profiles’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 431–438. doi:<http://dx.doi.org/10.1145/1068009.1068078>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p431.pdf>.
- [Richards *et al.*(2005)Richards, Whitley, Beveridge, Mytkowicz, Nguyen and Rome] Richards, M.D., Whitley, D., Beveridge, J.R., Mytkowicz, T., Nguyen, D. and Rome, D. (2005) ‘Evolving cooperative strategies for uav teams’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1721–1728. doi: <http://dx.doi.org/10.1145/1068009.1068296>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1721.pdf>.
- [Richter *et al.*(2005)Richter, Paxton and Wright] Richter, J.N., Paxton, J. and Wright, A. (2005) ‘Ea models and population fixed-points versus mutation rates for functions of unitation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1233–1240. doi:<http://dx.doi.org/10.1145/1068009.1068211>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1233.pdf>.
- [Ridder and HandUber(2005)] Ridder, J.P. and HandUber, J.C. (2005) ‘Mission planning for joint suppression of enemy air defenses using a genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1929–1936. doi:<http://dx.doi.org/10.1145/1068009.1068334>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1929.pdf>.
- [Rieffel and Pollack(2005)] Rieffel, J. and Pollack, J. (2005) ‘Automated assembly as situated development: using artificial ontogenies to evolve buildable 3-d objects’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 99–106. doi:<http://dx.doi.org/10.1145/1068009.1068023>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p99.pdf>.
- [Rothlauf *et al.*(2005)Rothlauf, Schunk and Pfeiffer] Rothlauf, F., Schunk, D. and Pfeiffer, J. (2005) ‘Classification of human decision behavior: finding modular decision rules with genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2021–2028. doi:<http://dx.doi.org/10.1145/1068009.1068296>.

1068009.1068346. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2021.pdf>.

- [Russell and Lamont(2005)] Russell, M.A. and Lamont, G.B. (2005) ‘A genetic algorithm for unmanned aerial vehicle routing’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1523–1530. doi: <http://dx.doi.org/10.1145/1068009.1068249>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1523.pdf>.
- [Sait *et al.*(2005a)] Sait, Faheemuddin, Minhas and Sanaullah] Sait, S.M., Faheemuddin, M., Minhas, M.R. and Sanaullah, S. (2005a) ‘Multiobjective vlsi cell placement using distributed genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1585–1586. doi: <http://dx.doi.org/10.1145/1068009.1068271>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1585.pdf>.
- [Sait *et al.*(2005b)] Sait, Sanaullah, Zaidi and Ali] Sait, S.M., Sanaullah, S., Zaidi, A.M. and Ali, M.I. (2005b) ‘Comparative evaluation of parallelization strategies for evolutionary and stochastic heuristics’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 921–922. doi: <http://dx.doi.org/10.1145/1068009.1068165>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p921.pdf>.
- [Sakuma and Kobayashi(2005a)] Sakuma, J. and Kobayashi, S. (2005a) ‘Latent variable crossover for k-tablet structures and its application to lens design problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1347–1354. doi: <http://dx.doi.org/10.1145/1068009.1068226>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1347.pdf>.
- [Sakuma and Kobayashi(2005b)] Sakuma, J. and Kobayashi, S. (2005b) ‘Real-coded crossover as a role of kernel density estimation’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 703–710. doi: <http://dx.doi.org/10.1145/1068009.1068127>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p703.pdf>.
- [Samples *et al.*(2005)] Samples, Daida, Byom and Pizzimenti] Samples, M.E., Daida, J.M., Byom, M. and Pizzimenti, M. (2005) ‘Parameter sweeps for exploring gp parameters’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1791–1792. doi: <http://dx.doi.org/10.1145/1068009.1068313>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1791.pdf>.
- [Samsonovich and De Jong(2005)] Samsonovich, A.V. and De Jong, K.A. (2005) ‘Pricing the ‘free lunch’ of meta-evolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum,

- E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1355–1362. doi:<http://dx.doi.org/10.1145/1068009.1068227>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1355.pdf>.
- [Sanchez *et al.*(2005)] Sanchez, Schillaci, Reorda, Squillero, Sterpone and Violante] Sanchez, E., Schillaci, M., Reorda, M.S., Squillero, G., Sterpone, L. and Violante, M. (2005) ‘New evolutionary techniques for test-program generation for complex microprocessor cores’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2193–2194. doi:<http://dx.doi.org/10.1145/1068009.1068370>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2193.pdf>.
- [Sastry *et al.*(2005)] Sastry, Abbass, Goldberg and Johnson] Sastry, K., Abbass, H.A., Goldberg, D.E. and Johnson, D.D. (2005) ‘Sub-structural niching in estimation of distribution algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 671–678. doi:<http://dx.doi.org/10.1145/1068009.1068123>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p671.pdf>.
- [Sato and Kanno(2005)] Sato, Y. and Kanno, R. (2005) ‘Event-driven learning classifier systems for online soccer games’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2201–2202. doi:<http://dx.doi.org/10.1145/1068009.1068374>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2201.pdf>.
- [Schönemann(2005)] Schönemann, L. (2005) ‘Optimal number of evolution strategies mutation step sizes in dynamic environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 923–924. doi: <http://dx.doi.org/10.1145/1068009.1068166>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p923.pdf>.
- [Scheutz and Schermerhorn(2005)] Scheutz, M. and Schermerhorn, P. (2005) ‘Predicting population dynamics and evolutionary trajectories based on performance evaluations in alife simulations’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 35–42. doi:<http://dx.doi.org/10.1145/1068009.1068015>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p35.pdf>.
- [Schlessinger *et al.*(2005)] Schlessinger, Bentley and Lotto] Schlessinger, E., Bentley, P.J. and Lotto, R.B. (2005) ‘Evolving visually guided agents in an ambiguous virtual world’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC,

USA: ACM Press, pp. 115–120. doi:<http://dx.doi.org/10.1145/1068009.1068025>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p115.pdf>.

- [Schlichter *et al.*(2005)Schlichter, Haubelt and Teich] Schlichter, T., Haubelt, C. and Teich, J. (2005) ‘Improving ea-based design space exploration by utilizing symbolic feasibility tests’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1945–1952. doi:<http://dx.doi.org/10.1145/1068009.1068336>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1945.pdf>.
- [Schmickl *et al.*(2005)Schmickl, Thenius and Crailsheim] Schmickl, T., Thenius, R. and Crailsheim, K. (2005) ‘Simulating swarm intelligence in honey bees: foraging in differently fluctuating environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 273–274. doi:<http://dx.doi.org/10.1145/1068009.1068052>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p273.pdf>.
- [Schmitt(2005)] Schmitt, K. (2005) ‘Using gene deletion and gene duplication in evolution strategies’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 919–920. doi:<http://dx.doi.org/10.1145/1068009.1068164>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p919.pdf>.
- [Schmitt *et al.*(2005)Schmitt, Mehnen and Michelitsch] Schmitt, K., Mehnen, J. and Michelitsch, T. (2005) ‘Using predators and preys in evolution strategies’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 827–828. doi: <http://dx.doi.org/10.1145/1068009.1068148>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p827.pdf>.
- [Schonfeld and Ashlock(2005)] Schonfeld, J. and Ashlock, D. (2005) ‘A study of evolutionary robustness in stochastically tiled polyominoes’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 19–26. doi:<http://dx.doi.org/10.1145/1068009.1068013>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p19.pdf>.
- [Seehuus *et al.*(2005)Seehuus, Tveit and Edsberg] Seehuus, R., Tveit, A. and Edsberg, O. (2005) ‘Discovering biological motifs with genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 401–408. doi: <http://dx.doi.org/10.1145/1068009.1068074>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p401.pdf>.
- [Seeluangsawat and Chongstitvatana(2005)] Seeluangsawat, P. and Chongstitvatana, P. (2005) ‘A multiple objective evolutionary algorithm for multiple sequence alignment’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta,

- K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 477–478. doi:<http://dx.doi.org/10.1145/1068009.1068088>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p477.pdf>.
- [Seng *et al.*(2005)] Seng, O., Bauer, M., Biehl, M. and Pache, G. (2005) ‘Search-based improvement of subsystem decompositions’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1045–1051. doi: <http://dx.doi.org/10.1145/1068009.1068186>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1045.pdf>.
- [Seo and Moon(2005)] Seo, D.I. and Moon, B.R. (2005) ‘Computing the epistasis variance of large-scale traveling salesman problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1169–1176. doi: <http://dx.doi.org/10.1145/1068009.1068203>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1169.pdf>.
- [Seo *et al.*(2005)] Seo, K., Goodman, E.D. and Rosenberg, R.C. (2005) ‘Design of air pump system using bond graph and genetic programming method’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2215–2216. doi:<http://dx.doi.org/10.1145/1068009.1068381>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2215.pdf>.
- [Settles *et al.*(2005)] Settles, M., Nathan, P. and Soule, T. (2005) ‘Breeding swarms: a new approach to recurrent neural network training’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 185–192. doi:<http://dx.doi.org/10.1145/1068009.1068038>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p185.pdf>.
- [Settles and Soule(2005)] Settles, M. and Soule, T. (2005) ‘Breeding swarms: a ga/psa hybrid’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 161–168. doi:<http://dx.doi.org/10.1145/1068009.1068035>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p161.pdf>.
- [Shafiti and Pérez(2005)] Shafiti, L.S. and Pérez, E.P. (2005) ‘Constructive induction and genetic algorithms for learning concepts with complex interaction’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1811–1818. doi:<http://dx.doi.org/10.1145/1068009.1068317>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1811.pdf>.

- [Shakya *et al.*(2005)Shakya, McCall and Brown] Shakya, S., McCall, J. and Brown, D. (2005) ‘Using a markov network model in a univariate eda: an empirical cost-benefit analysis’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 727–734. doi:<http://dx.doi.org/10.1145/1068009.1068130>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p727.pdf>.
- [Shapiro *et al.*(2005)Shapiro, Lamont and Peterson] Shapiro, J.M., Lamont, G.B. and Peterson, G.L. (2005) ‘An evolutionary algorithm to generate hyper-ellipsoid detectors for negative selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 337–344. doi:<http://dx.doi.org/10.1145/1068009.1068063>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p337.pdf>.
- [Shir and Bäck(2005)] Shir, O.M. and Bäck, T. (2005) ‘Niching in evolution strategies’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 915–916. doi:<http://dx.doi.org/10.1145/1068009.1068162>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p915.pdf>.
- [Silva and Costa(2005)] Silva, S. and Costa, E. (2005) ‘Resource-limited genetic programming: the dynamic approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1673–1680. doi:<http://dx.doi.org/10.1145/1068009.1068290>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1673.pdf>.
- [Sit and Miikkulainen(2005)] Sit, Y.F. and Miikkulainen, R. (2005) ‘Learning basic navigation for personal satellite assistant using neuroevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1913–1920. doi: <http://dx.doi.org/10.1145/1068009.1068332>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1913.pdf>.
- [Skellett *et al.*(2005)Skellett, Cairns, Geard, Tonkes and Wiles] Skellett, B., Cairns, B., Geard, N., Tonkes, B. and Wiles, J. (2005) ‘Maximally rugged nk landscapes contain the highest peaks’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 579–584. doi:<http://dx.doi.org/10.1145/1068009.1068107>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p579.pdf>.
- [Skolicki and De Jong(2005)] Skolicki, Z. and De Jong, K. (2005) ‘The influence of migration sizes and intervals on island models’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

and evolutionary computation, vol. 2. Washington DC, USA: ACM Press, pp. 1295–1302. doi: <http://dx.doi.org/10.1145/1068009.1068219>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1295.pdf>.

- [Smith, III(2005)] Smith, III, J.F. (2005) ‘Evolving fuzzy decision tree structure that adapts in real-time’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1737–1744. doi:<http://dx.doi.org/10.1145/1068009.1068298>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1737.pdf>.
- [Sokolov and Whitley(2005)] Sokolov, A. and Whitley, D. (2005) ‘Unbiased tournament selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1131–1138. doi:<http://dx.doi.org/10.1145/1068009.1068198>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1131.pdf>.
- [Sokolov et al.(2005)] Sokolov, Whitley and Lunacek] Sokolov, A., Whitley, D. and Lunacek, M. (2005) ‘Alternative implementations of the griewangk function’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1589–1590. doi: <http://dx.doi.org/10.1145/1068009.1068273>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1589.pdf>.
- [Soltoggio(2005)] Soltoggio, A. (2005) ‘An enhanced ga to improve the search process reliability in tuning of control systems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2165–2172. doi: <http://dx.doi.org/10.1145/1068009.1068365>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2165.pdf>.
- [Spector et al.(2005)] Spector, Klein and Keijzer] Spector, L., Klein, J. and Keijzer, M. (2005) ‘The push3 execution stack and the evolution of control’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1689–1696. doi: <http://dx.doi.org/10.1145/1068009.1068292>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1689.pdf>.
- [Spellward and Kovacs(2005)] Spellward, P. and Kovacs, T. (2005) ‘On the contribution of gene libraries to artificial immune systems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 313–319. doi: <http://dx.doi.org/10.1145/1068009.1068060>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p313.pdf>.
- [Spieth et al.(2005)] Spieth, Streichert, Speer and Zell] Spieth, C., Streichert, F., Speer, N. and Zell, A. (2005) ‘Identifying valid solutions for the inference of regulatory networks’. In H.G. Beyer, U.M.

- O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 469–470. doi:<http://dx.doi.org/10.1145/1068009.1068084>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p469.pdf>.
- [Stanley *et al.*(2005)Stanley, Kohl, Sherony and Miikkulainen] Stanley, K., Kohl, N., Sherony, R. and Miikkulainen, R. (2005) 'Neuroevolution of an automobile crash warning system'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1977–1984. doi:<http://dx.doi.org/10.1145/1068009.1068340>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1977.pdf>.
- [Stevens *et al.*(2005a)Stevens, Das and Natarajan] Stevens, D., Das, S. and Natarajan, B. (2005a) 'A multi-objective algorithm for ds-cdma code design based on the clonal selection principle'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2015–2020. doi:<http://dx.doi.org/10.1145/1068009.1068345>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2015.pdf>.
- [Stevens *et al.*(2005b)Stevens, Heckendorn and Soule] Stevens, J., Heckendorn, R.B. and Soule, T. (2005b) 'Exploiting disruption aversion to control code bloat'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1605–1612. doi:<http://dx.doi.org/10.1145/1068009.1068281>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1605.pdf>.
- [Stibor *et al.*(2005)Stibor, Mohr, Timmis and Eckert] Stibor, T., Mohr, P., Timmis, J. and Eckert, C. (2005) 'Is negative selection appropriate for anomaly detection?' In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 321–328. doi:<http://dx.doi.org/10.1145/1068009.1068061>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p321.pdf>.
- [Storch(2005)] Storch, T. (2005) 'On the impact of objective function transformations on evolutionary and black-box algorithms'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 833–840. doi:<http://dx.doi.org/10.1145/1068009.1068151>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p833.pdf>.
- [Stout and Spector(2005)] Stout, A. and Spector, L. (2005) 'Validation of evolutionary activity metrics for long-term evolutionary dynamics'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 137–142. doi: <http://dx.doi.org/10.1145/1068009.1068028>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p137.pdf>.
- [Stringer and Wu(2005)] Stringer, H. and Wu, A.S. (2005) ‘Behavior of finite population variable length genetic algorithms under random selection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1249–1255. doi: <http://dx.doi.org/10.1145/1068009.1068213>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1249.pdf>.
- [Sudholt(2005)] Sudholt, D. (2005) ‘Crossover is provably essential for the ising model on trees’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1161–1167. doi: <http://dx.doi.org/10.1145/1068009.1068202>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1161.pdf>.
- [Sureka and Wurman(2005)] Sureka, A. and Wurman, P.R. (2005) ‘Applying metaheuristic techniques to search the space of bidding strategies in combinatorial auctions’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2097–2103. doi: <http://dx.doi.org/10.1145/1068009.1068356>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2097.pdf>.
- [Sutton *et al.*(2005)] Sutton, Kagdi, Maletic and Volkert] Sutton, A., Kagdi, H., Maletic, J.I. and Volkert, L.G. (2005) ‘Hybridizing evolutionary algorithms and clustering algorithms to find source-code clones’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1079–1080. doi: <http://dx.doi.org/10.1145/1068009.1068191>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1079.pdf>.
- [Szumslanski *et al.*(2005)] Szumslanski, Wu and Hughes] Szumslanski, S.R., Wu, A.S. and Hughes, C.E. (2005) ‘Collaborative interactive evolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2199–2200. doi: <http://dx.doi.org/10.1145/1068009.1068373>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2199.pdf>.
- [Talaie *et al.*(2005)] Talaie, Leigh, Louis and Raines] Talaie, S., Leigh, R., Louis, S.J. and Raines, G.L. (2005) ‘Predicting mining activity with parallel genetic algorithms’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2149–2155. doi: <http://dx.doi.org/10.1145/1068009.1068363>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2149.pdf>.
- [Tanev(2005)] Tanev, I. (2005) ‘Learned mutation strategies in genetic programming for evolution and adaptation of simulated snakebot’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf,

- C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 687–694. doi: <http://dx.doi.org/10.1145/1068009.1068125>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p687.pdf>.
- [Tang *et al.*(2005)Tang, Lim, Ong and Er] Tang, J., Lim, M.H., Ong, Y.S. and Er, M.J. (2005) ‘Solving large scale combinatorial optimization using pma-sls’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 621–628. doi: <http://dx.doi.org/10.1145/1068009.1068113>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p621.pdf>.
- [Tang and Jarvis(2005)] Tang, K.W. and Jarvis, R.A. (2005) ‘From supervised ranking to evolving behaviours of a robotic team’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1325–1332. doi: <http://dx.doi.org/10.1145/1068009.1068223>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1325.pdf>.
- [Terashima-Marín *et al.*(2005)Terashima-Marín, Flores-Álvarez and Ross] Terashima-Marín, H., Flores-Álvarez, E.J. and Ross, P. (2005) ‘Hyper-heuristics and classifier systems for solving 2d-regular cutting stock problems’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 637–643. doi:<http://dx.doi.org/10.1145/1068009.1068115>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p637.pdf>.
- [Thierens(2005)] Thierens, D. (2005) ‘An adaptive pursuit strategy for allocating operator probabilities’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1539–1546. doi:<http://dx.doi.org/10.1145/1068009.1068251>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1539.pdf>.
- [Townsend *et al.*(2005)Townsend, Hazel and Smock] Townsend, G.C., Hazel, W.N. and Smock, R. (2005) ‘Using evolutionary computation methods to support analytical models for the evolution and maintenance of conditional strategies in *chthamalus anisopoma*’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 409–414. doi:<http://dx.doi.org/10.1145/1068009.1068075>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p409.pdf>.
- [Tumer and Agogino(2005)] Tumer, K. and Agogino, A. (2005) ‘Coordinating multi-rover systems: evaluation functions for dynamic and noisy environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation, vol. 1. Washington DC, USA: ACM Press, pp. 591–598. doi: <http://dx.doi.org/10.1145/1068009.1068109>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p591.pdf>.
- [Uyar and Eryiğit(2005)] Uyar, S. and Eryiğit, G. (2005) ‘Improvements to penalty-based evolutionary algorithms for the multi-dimensional knapsack problem using a gene-based adaptive mutation approach’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1257–1264. doi: <http://dx.doi.org/10.1145/1068009.1068214>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1257.pdf>.
- [Valsalam et al.(2005)Valsalam, Bednar and Miikkulainen] Valsalam, V., Bednar, J. and Miikkulainen, R. (2005) ‘Constructing good learners using evolved pattern generators’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 11–18. doi:<http://dx.doi.org/10.1145/1068009.1068012>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p11.pdf>.
- [Vigraham et al.(2005)Vigraham, Gallagher and Boddhu] Vigraham, S.A., Gallagher, J.C. and Boddhu, S.K. (2005) ‘Evolving analog controllers for correcting thermoacoustic instability in real hardware’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 933–940. doi:<http://dx.doi.org/10.1145/1068009.1068169>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p933.pdf>.
- [Vrajitoru and DeBoni(2005)] Vrajitoru, D. and DeBoni, J. (2005) ‘Hybrid real-coded mutation for genetic algorithms applied to graph layouts’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1563–1564. doi: <http://dx.doi.org/10.1145/1068009.1068260>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1563.pdf>.
- [Walker and Miller(2005)] Walker, J.A. and Miller, J.F. (2005) ‘Investigating the performance of module acquisition in cartesian genetic programming’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1649–1656. doi: <http://dx.doi.org/10.1145/1068009.1068287>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1649.pdf>.
- [Wang et al.(2005)Wang, Rahman and Wong] Wang, Z.G., Rahman, M. and Wong, Y.S. (2005) ‘Multi-niche crowding in the development of parallel genetic simulated annealing’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1555–1556. doi:<http://dx.doi.org/10.1145/1068009.1068256>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1555.pdf>.

- [Wappler and Lammermann(2005)] Wappler, S. and Lammermann, F. (2005) ‘Using evolutionary algorithms for the unit testing of object-oriented software’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1053–1060. doi: <http://dx.doi.org/10.1145/1068009.1068187>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1053.pdf>.
- [Watanabe and Sakakibara(2005)] Watanabe, S. and Sakakibara, K. (2005) ‘The effectiveness of multiobjective optimizer in single-objective optimization environment’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 829–830. doi:<http://dx.doi.org/10.1145/1068009.1068149>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p829.pdf>.
- [Wedde *et al.*(2005)] Wedde, Farooq, Pannenbaecker, Vogel, Mueller, Meth and Jeruschkat] Wedde, H.F., Farooq, M., Pannenbaecker, T., Vogel, B., Mueller, C., Meth, J. and Jeruschkat, R. (2005) ‘Beead hoc: an energy efficient routing algorithm for mobile ad hoc networks inspired by bee behavior’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 153–160. doi:<http://dx.doi.org/10.1145/1068009.1068034>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p153.pdf>.
- [Whiteson *et al.*(2005)] Whiteson, Stone, Stanley, Miikkulainen and Kohl] Whiteson, S., Stone, P., Stanley, K.O., Miikkulainen, R. and Kohl, N. (2005) ‘Automatic feature selection in neuroevolution’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1225–1232. doi:<http://dx.doi.org/10.1145/1068009.1068210>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1225.pdf>.
- [Whiting *et al.*(2005)] Whiting, Poon and Carter] Whiting, P., Poon, P.W. and Carter, J.N. (2005) ‘A genetic algorithm approach to the selection of near-optimal subsets from large sets’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2203–2204. doi:<http://dx.doi.org/10.1145/1068009.1068375>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2203.pdf>.
- [Wierstra *et al.*(2005)] Wierstra, Gomez and Schmidhuber] Wierstra, D., Gomez, F.J. and Schmidhuber, J. (2005) ‘Modeling systems with internal state using evolino’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1795–1802. doi:<http://dx.doi.org/10.1145/1068009.1068315>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1795.pdf>.
- [Wiese *et al.*(2005)] Wiese, Hendriks, Deschênes and Youssef] Wiese, K.C., Hendriks, A., Deschênes, A. and Youssef, B.B. (2005) ‘The impact of pseudorandom number quality

- on p-rnapredict, a parallel genetic algorithm for rna secondary structure prediction'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 479–480. doi:<http://dx.doi.org/10.1145/1068009.1068089>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p479.pdf>.
- [Wight and Zhang(2005)] Wight, J. and Zhang, Y. (2005) 'An "ageing" operator and its use in the highly constrained topological optimization of hvac system design'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2075–2082. doi:<http://dx.doi.org/10.1145/1068009.1068353>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2075.pdf>.
- [Williams and Mitchell(2005)] Williams, N. and Mitchell, M. (2005) 'Investigating the success of spatial coevolution'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 523–530. doi:<http://dx.doi.org/10.1145/1068009.1068096>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p523.pdf>.
- [Wilson and Heywood(2005)] Wilson, G. and Heywood, M. (2005) 'Use of a genetic algorithm in brill's transformation-based part-of-speech tagger'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2067–2073. doi: <http://dx.doi.org/10.1145/1068009.1068352>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2067.pdf>.
- [Wright and Pulavarty(2005)] Wright, A.H. and Pulavarty, S. (2005) 'On the convergence of an estimation of distribution algorithm based on linkage discovery and factorization'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 695–702. doi:<http://dx.doi.org/10.1145/1068009.1068126>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p695.pdf>.
- [Wu and Chung(2005)] Wu, J.Y. and Chung, Y.K. (2005) 'Artificial immune system for solving generalized geometric problems: a preliminary results'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 329–336. doi: <http://dx.doi.org/10.1145/1068009.1068062>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p329.pdf>.
- [Xu et al.(2005)] Xu, Louis and Mancini] Xu, K., Louis, S.J. and Mancini, R.C. (2005) 'A scalable parallel genetic algorithm for x-ray spectroscopic analysis'. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic*

- and evolutionary computation, vol. 1. Washington DC, USA: ACM Press, pp. 811–816. doi:<http://dx.doi.org/10.1145/1068009.1068145>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p811.pdf>.
- [Yanai and Iba(2005)] Yanai, K. and Iba, H. (2005) ‘Probabilistic distribution models for eda-based gp’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1775–1776. doi:<http://dx.doi.org/10.1145/1068009.1068305>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1775.pdf>.
- [Yang(2005a)] Yang, S. (2005a) ‘Memory-based immigrants for genetic algorithms in dynamic environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1115–1122. doi:<http://dx.doi.org/10.1145/1068009.1068196>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1115.pdf>.
- [Yang(2005b)] Yang, S. (2005b) ‘Population-based incremental learning with memory scheme for changing environments’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 711–718. doi:<http://dx.doi.org/10.1145/1068009.1068128>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p711.pdf>.
- [hua Yang et al.(2005)]hua Yang, cheng Fang and qiang Qi] hua Yang, Z., cheng Fang, J. and qiang Qi, Z. (2005) ‘Flight midcourse guidance control based on genetic algorithm’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1501–1506. doi:<http://dx.doi.org/10.1145/1068009.1068246>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1501.pdf>.
- [Yilmaz and Wu(2005)] Yilmaz, A.S. and Wu, A.S. (2005) ‘Preservation of genetic redundancy in the existence of developmental error and fitness assignment error’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1317–1324. doi:<http://dx.doi.org/10.1145/1068009.1068222>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1317.pdf>.
- [Yilmaz et al.(2005)]Yilmaz, Ivanov and Levine] Yilmaz, S., Ivanov, K. and Levine, S. (2005) ‘Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1477–1483. doi:<http://dx.doi.org/10.1145/1068009.1068243>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1477.pdf>.
- [Yoon et al.(2005)]Yoon, Kim and Moon] Yoon, Y., Kim, Y.H. and Moon, B.R. (2005) ‘An evolutionary lagrangian method for the 0/1 multiple knapsack problem’. In H.G. Beyer, U.M.

- O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 629–635. doi:<http://dx.doi.org/10.1145/1068009.1068114>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p629.pdf>.
- [Yossi and Poli(2005)] Yossi, B. and Poli, R. (2005) ‘Information landscapes and the analysis of search algorithms’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1287–1294. doi:<http://dx.doi.org/10.1145/1068009.1068218>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1287.pdf>.
- [Yu *et al.*(2005)] Yu, Sastry and Goldberg] Yu, T.L., Sastry, K. and Goldberg, D.E. (2005) ‘Linkage learning, overlapping building blocks, and systematic strategy for scalable recombination’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1217–1224. doi:<http://dx.doi.org/10.1145/1068009.1068209>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1217.pdf>.
- [Yuan and Gallagher(2005)] Yuan, B. and Gallagher, M. (2005) ‘On the importance of diversity maintenance in estimation of distribution algorithms’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 719–726. doi: <http://dx.doi.org/10.1145/1068009.1068129>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p719.pdf>.
- [Yuan *et al.*(2005)]Yuan, Gallagher and Crozier] Yuan, B., Gallagher, M. and Crozier, S. (2005) ‘Mri magnet design: search space analysis, edas and a real-world problem with significant dependencies’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 2141–2148. doi:<http://dx.doi.org/10.1145/1068009.1068362>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p2141.pdf>.
- [Zavala *et al.*(2005)]Zavala, Aguirre and Diharce] Zavala, A.E.M., Aguirre, A.H. and Diharce, E.R.V. (2005) ‘Constrained optimization via particle evolutionary swarm optimization algorithm (peso)’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 209–216. doi:<http://dx.doi.org/10.1145/1068009.1068041>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p209.pdf>.
- [Zechman and Ranjithan(2005)] Zechman, E.M. and Ranjithan, S.R. (2005) ‘Multipopulation cooperative coevolutionary programming (mccp) to enhance design innovation’. In H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC,

USA: ACM Press, pp. 1641–1648. doi:<http://dx.doi.org/10.1145/1068009.1068286>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1641.pdf>.

- [Zhan and Clark(2005)] Zhan, Y. and Clark, J.A. (2005) ‘Search-based mutation testing for simulink models’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 1061–1068. doi:<http://dx.doi.org/10.1145/1068009.1068188>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1061.pdf>.
- [Zhang and Jang(2005)] Zhang, B.T. and Jang, H.Y. (2005) ‘Molecular programming: evolving genetic programs in a test tube’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1761–1768. doi:<http://dx.doi.org/10.1145/1068009.1068301>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1761.pdf>.
- [Zhang and Rasheed(2005)] Zhang, C. and Rasheed, K. (2005) ‘Improving ga search reliability using maximal hyper-rectangle analysis’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1185–1192. doi: <http://dx.doi.org/10.1145/1068009.1068205>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1185.pdf>.
- [Zhang et al.(2005)Zhang, Chung and Zhong] Zhang, J., Chung, H.S.H. and Zhong, J. (2005) ‘Adaptive crossover and mutation in genetic algorithms based on clustering technique’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 2. Washington DC, USA: ACM Press, pp. 1577–1578. doi:<http://dx.doi.org/10.1145/1068009.1068267>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p1577.pdf>.
- [Zhang and Rockett(2005)] Zhang, Y. and Rockett, P.I. (2005) ‘Evolving optimal feature extraction using multi-objective genetic programming: a methodology and preliminary study on edge detection’. In H.G. Beyer, U.M. O’Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llorca, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson and E. Zitzler, (eds.) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, vol. 1. Washington DC, USA: ACM Press, pp. 795–802. doi:<http://dx.doi.org/10.1145/1068009.1068143>. Available at: <http://www.cs.bham.ac.uk/~wbl/biblio/gecco2005/docs/p795.pdf>.