Список литературы

[Adra *et al.*(2005)Adra, Griffin & Fleming] Adra, S.F., Griffin, I. & Fleming, P.J. (2005) Hybrid multiobjective genetic algorithm with a new adaptive local search process. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1009–1010, ACM Press, Washington DC, USA.

[Affenzeller *et al.*(2005)Affenzeller, Wagner & Winkler] Affenzeller, M., Wagner, S. & Winkler, S. (2005) Goal-oriented preservation of essential genetic information by offspring selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1595–1596, ACM Press, Washington DC, USA.

[Agogino *et al.*(2005)Agogino, Tumer & Miikkulainen] Agogino, A., Tumer, K. & Miikkulainen, R. (2005) Efficient credit assignment through evaluation function decomposition. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1309–1316, ACM Press, Washington DC, USA.

[Aguilar-Ruiz & Divina(2005)] Aguilar-Ruiz, J.S. & Divina, F. (2005) Ga-based approach to discover meaningful biclusters. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 473–474, ACM Press, Washington DC, USA.

[Ahn *et al.*(2005)Ahn, Oh & Ramakrishna] Ahn, C.W., Oh, S. & Ramakrishna, R.S. (2005) On the practical genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1583–1584, ACM Press, Washington DC, USA.

[Ahrens(2005)] Ahrens, B. (2005) Genetic algorithm optimization of superresolution parameters. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2083–2088, ACM Press, Washington DC, USA.

[Alba *et al.*(2005)Alba, Alfonso & Dorronsoro] Alba, E., Alfonso, H. & Dorronsoro, B. (2005) Advanced models of cellular genetic algorithms evaluated on sat. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1123–1130, ACM Press, Washington DC, USA.

[Alim & Ivanov(2005)] Alim, F. & Ivanov, K. (2005) Heuristic rules embedded genetic algorithm to solve in-core fuel management optimization problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2191–2192, ACM Press, Washington DC, USA.

[Amor & Rettinger(2005)] Amor, H.B. & Rettinger, A. (2005) Intelligent exploration for genetic algorithms: using self-organizing maps in evolutionary computation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1531–1538, ACM Press, Washington DC, USA.

[Ando & Kobayashi(2005)] Ando, S. & Kobayashi, S. (2005) Fitness-based neighbor selection for multimodal function optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1573–1574, ACM Press, Washington DC, USA.

[Ando *et al.*(2005)Ando, Sakuma & Kobayashi] Ando, S., Sakuma, J. & Kobayashi, S. (2005) Adaptive isolation model using data clustering for multimodal function optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1417–1424, ACM Press, Washington DC, USA.

[Antolík & Hsu(2005)] Antolík, J. & Hsu, W.H. (2005) Evolutionary tree genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1789–1790, ACM Press, Washington DC, USA.

[Ashlock & Kim(2005)] Ashlock, D. & Kim, E.Y. (2005) The impact of cellular representation on finite state agents for prisoner's dilemma. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 59–66, ACM Press, Washington DC, USA.

[Auger *et al.*(2005)Auger, Schoenauer & Teytaud] Auger, A., Schoenauer, M. & Teytaud, O. (2005) Local and global order 3/2 convergence of a surrogate evolutionary algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 857–864, ACM Press, Washington DC, USA.

[Auwatanamongkol(2005)] Auwatanamongkol, S. (2005) Inexact pattern matching using genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1567–1568, ACM Press, Washington DC, USA.

[Bacardit(2005)] Bacardit, J. (2005) Analysis of the initialization stage of a pittsburgh approach learning classifier system. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1843–1850, ACM Press, Washington DC, USA.

[Barbosa & Lemonge(2005)] Barbosa, H.J. & Lemonge, A.C. (2005) A genetic algorithm encoding for a class of cardinality constraints. *GECCO 2005: Proceedings of the 2005 conference on Genetic and*

evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1193–1200, ACM Press, Washington DC, USA.

[Bassett *et al.*(2005)Bassett, Potter & De Jong] Bassett, J.K., Potter, M.A. & De Jong, K.A. (2005) Applying price's equation to survival selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1371–1378, ACM Press, Washington DC, USA.

[Becerra & Coello Coello(2005)] Becerra, R.L. & Coello Coello, C.A. (2005) Optimization with constraints using a cultured differential evolution approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 27–34, ACM Press, Washington DC, USA.

[Bello *et al.*(2005)Bello, Nowe, Caballero, Gómez & Vrancx] Bello, R., Nowe, A., Caballero, Y., Gómez, Y. & Vrancx, P. (2005) A model based on ant colony system and rough set theory to feature selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 275–276, ACM Press, Washington DC, USA.

[Berntsson & Tang(2005a)] Berntsson, J. & Tang, M. (2005a) Adaptive sizing of populations and number of islands in distributed genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1575–1576, ACM Press, Washington DC, USA.

[Berntsson & Tang(2005b)] Berntsson, J. & Tang, M. (2005b) Dynamic optimization of migration topology in internet-based distributed genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1579–1580, ACM Press, Washington DC, USA.

[Besetti & Soule(2005)] Besetti, S. & Soule, T. (2005) Function choice, resiliency and growth in genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1771–1772, ACM Press, Washington DC, USA.

[Beyer *et al.*(2005)Beyer, O'Reilly, Arnold, Banzhaf, Blum, Bonabeau, Cantu-Paz, Dasgupta, Deb, Foster, de Jong, Lipso 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., Llora, X., Mancoridis, S., Pelikan, M., Raidl, G.R., Soule, T., Tyrrell, A.M., Watson, J.P. & Zitzler, E. (eds.) (2005) *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, ACM Press, Washington DC, USA.

[Bongard & Lipson(2005)] Bongard, J.C. & Lipson, H. (2005) 'managed challenge' alleviates disengagement in co-evolutionary system identification. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster,

E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 531–538, ACM Press, Washington DC, USA.

[Borenstein & Poli(2005a)] Borenstein, Y. & Poli, R. (2005a) Information landscapes. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1515–1522, ACM Press, Washington DC, USA.

[Borenstein & Poli(2005b)] Borenstein, Y. & Poli, R. (2005b) Information landscapes and problem hardness. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1425–1431, ACM Press, Washington DC, USA.

[Borgulya(2005)] Borgulya, I. (2005) A hybrid evolutionary algorithm for the p-median problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 649–650, ACM Press, Washington DC, USA.

[Bosman & de Jong(2005)] Bosman, P.A.N. & de Jong, E.D. (2005) Exploiting gradient information in numerical multi–objective evolutionary optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 755–762, ACM Press, Washington DC, USA.

[Brabazon *et al.*(2005)Brabazon, Silva, de Sousa, O'Neill, Matthews & Costa] Brabazon, A., Silva, A., de Sousa, T.F., O'Neill, M., Matthews, R. & Costa, E. (2005) Agent-based modelling of product invention. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 129–136, ACM Press, Washington DC, USA.

[Bradstreet *et al.*(2005)Bradstreet, Barone & While] Bradstreet, L., Barone, L. & While, L. (2005) Map-labelling with a multi-objective evolutionary algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1937–1944, ACM Press, Washington DC, USA.

[Branke *et al.*(2005)Branke, Salihoğlu & Şima Uyar] Branke, J., Salihoğlu, E. & Şima Uyar (2005) Towards an analysis of dynamic environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1433–1440, ACM Press, Washington DC, USA.

[Breukelaar & Bäck(2005)] Breukelaar, R. & Bäck, T. (2005) Using a genetic algorithm to evolve behavior in multi dimensional cellular automata: emergence of behavior. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl,

T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 107–114, ACM Press, Washington DC, USA.

[Briand *et al.*(2005)Briand, Labiche & Shousha] Briand, L.C., Labiche, Y. & Shousha, M. (2005) Stress testing real-time systems with genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1021–1028, ACM Press, Washington DC, USA.

[Browne & Scott(2005)] Browne, W. & Scott, D. (2005) An abstraction agorithm for genetics-based reinforcement learning. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1875–1882, ACM Press, Washington DC, USA.

[Bucci & Pollack(2005)] Bucci, A. & Pollack, J.B. (2005) On identifying global optima in cooperative coevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 539–544, ACM Press, Washington DC, USA.

[Budynek *et al.*(2005)Budynek, Bonabeau & Shargel] Budynek, J., Bonabeau, E. & Shargel, B. (2005) Evolving computer intrusion scripts for vulnerability assessment and log analysis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1905–1912, ACM Press, Washington DC, USA.

[Bui *et al.*(2005a)Bui, Abbass & Essam] Bui, L.T., Abbass, H.A. & Essam, D. (2005a) Fitness inheritance for noisy evolutionary multi-objective optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 779–785, ACM Press, Washington DC, USA.

[Bui *et al.*(2005b)Bui, Branke & Abbass] Bui, L.T., Branke, J. & Abbass, H.A. (2005b) Diversity as a selection pressure in dynamic environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1557–1558, ACM Press, Washington DC, USA.

[Bui & Colpan(2005)] Bui, T.N. & Colpan, M. (2005) Solving geometric tsp with ants. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 271–272, ACM Press, Washington DC, USA.

[Bui & Sundarraj(2005)] Bui, T.N. & Sundarraj, G. (2005) An efficient genetic algorithm for predicting protein tertiary structures in the 2d hp model. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 385–392, ACM Press, Washington DC, USA.

[Butz(2005)] Butz, M.V. (2005) Kernel-based, ellipsoidal conditions in the real-valued xcs classifier system. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1835–1842, ACM Press, Washington DC, USA.

[Butz et al.(2005)Butz, Pelikan, Llorà & Goldberg] Butz, M.V., Pelikan, M., Llorà, X. & Goldberg, D.E. (2005) Extracted global structure makes local building block processing effective in xcs. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 655–662, ACM Press, Washington DC, USA.

[Cairns et al.(2005)Cairns, Cameron & Wess] Cairns, D.E., Cameron, G.J. & Wess, T.J. (2005) Evolving an improved axial structure for fibrillar collagen. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 471–472, ACM Press, Washington DC, USA.

[Canfora et al.(2005)Canfora, Penta, Esposito & Villani] Canfora, G., Penta, M.D., Esposito, R. & Villani, M.L. (2005) An approach for qos-aware service composition based on genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1069–1075, ACM Press, Washington DC, USA.

[Carter et al.(2005)Carter, Ebdon & Neal-Sturgess] Carter, E., Ebdon, S. & Neal-Sturgess, C. (2005) Optimization of passenger car design for the mitigation of pedestrian head injury using a genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2113–2120, ACM Press, Washington DC, USA.

[Castillo & Villa(2005)] Castillo, F.A. & Villa, C.M. (2005) Symbolic regression in multicollinearity problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2207–2208, ACM Press, Washington DC, USA.

[Cavill et al.(2005)Cavill, Smith & Tyrrell] Cavill, R., Smith, S. & Tyrrell, A. (2005) Multi-chromosomal genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1753–1759, ACM Press, Washington DC, USA.

[Cazangi et al.(2005)Cazangi, Von Zuben & Figueiredo] Cazangi, R.R., Von Zuben, F.J. & Figueiredo, M.F. (2005) Autonomous navigation system applied to collective robotics with ant-inspired communication. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 121–128, ACM Press, Washington DC, USA.

[Che *et al.*(2005)Che, Song & Rasheed] Che, D., Song, Y. & Rasheed, K. (2005) Mdga: motif discovery using a genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 447–452, ACM Press, Washington DC, USA.

[Chen *et al.*(2005)Chen, Ho & Goldberg] Chen, J.H., Ho, S.Y. & Goldberg, D.E. (2005) Quality-time analysis of multi-objective evolutionary algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1455–1462, ACM Press, Washington DC, USA.

[Chen & Pitt(2005)] Chen, S. & Pitt, G. (2005) Isolating the benefits of respect. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1601–1602, ACM Press, Washington DC, USA.

[Cherba *et al.*(2005)Cherba, Punch, Duxbury, Billinge & Juhas] Cherba, D.M., Punch, W., Duxbury, P., Billinge, S. & Juhas, P. (2005) Conformation of an ideal bucky ball molecule by genetic algorithm and geometric constraint from pair distance data: genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1565–1566, ACM Press, Washington DC, USA.

[Choi *et al.*(2005a)Choi, Jung & Kim] Choi, S.S., Jung, K. & Kim, J.H. (2005a) Phase transition in a random nk landscape model. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1241–1248, ACM Press, Washington DC, USA.

[Choi *et al.*(2005b)Choi, Moon & Seo] Choi, Y.S., Moon, B.R. & Seo, S.Y. (2005b) Genetic fuzzy discretization with adaptive intervals for classification problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2037–2043, ACM Press, Washington DC, USA.

[Cochenour *et al.*(2005)Cochenour, Simon, Das, Pahwa & Nag] Cochenour, G., Simon, J., Das, S., Pahwa, A. & Nag, S. (2005) A pareto archive evolutionary strategy based radial basis function neural network training algorithm for failure rate prediction in overhead feeders. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2127–2132, ACM Press, Washington DC, USA.

[Collins(2005)] Collins, M. (2005) Finding needles in haystacks is harder with neutrality. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1613–1618, ACM Press, Washington DC, USA.

[Cong *et al.*(2005)Cong, Sha, Jiao & Liu] Cong, L., Sha, Y., Jiao, L. & Liu, F. (2005) Directional self-learning of genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1569–1570, ACM Press, Washington DC, USA.

[Cui & Zeng(2005)] Cui, Z. & Zeng, J. (2005) A modified particle swarm optimization predicted by velocity. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 277–278, ACM Press, Washington DC, USA.

[Díaz & Romay(2005)] Díaz, D.S. & Romay, M.G. (2005) Introducing a watermarking with a multi-objective genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2219–2220, ACM Press, Washington DC, USA.

[Dahal *et al.*(2005)Dahal, Galloway, Burt, McDonald & Hopkins] Dahal, K.P., Galloway, S.J., Burt, G.M., McDonald, J.R. & Hopkins, I. (2005) A case study of process facility optimization using discrete event simulation and genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2197–2198, ACM Press, Washington DC, USA.

[Daida(2005)] Daida, J.M. (2005) Towards identifying populations that increase the likelihood of success in genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1627–1634, ACM Press, Washington DC, USA.

[Daida *et al.*(2005)Daida, Samples & Byom] Daida, J.M., Samples, M.E. & Byom, M.J. (2005) Probing for limits to building block mixing with a tunably-difficult problem for genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1713–1720, ACM Press, Washington DC, USA.

[Dam *et al.*(2005)Dam, Abbass & Lokan] Dam, H.H., Abbass, H.A. & Lokan, C. (2005) Dxcs: an xcs system for distributed data mining. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1883–1890, ACM Press, Washington DC, USA.

[Daoud & Kharma(2005)] Daoud, M. & Kharma, N. (2005) Gats 1.0: a novel ga-based scheduling algorithm for task scheduling on heterogeneous processor nets. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2209–2210, ACM Press, Washington DC, USA.

[Das *et al.*(2005a)Das, Konar & Chakraborty] Das, S., Konar, A. & Chakraborty, U.K. (2005a) An efficient evolutionary algorithm applied to the design of two-dimensional iir filters. *GECCO 2005:*

Proceedings of the 2005 conference on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2157–2163, ACM Press, Washington DC, USA.

[Das *et al.*(2005b)Das, Konar & Chakraborty] Das, S., Konar, A. & Chakraborty, U.K. (2005b) Improving particle swarm optimization with differentially perturbed velocity. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 177–184, ACM Press, Washington DC, USA.

[Das *et al.*(2005c)Das, Konar & Chakraborty] Das, S., Konar, A. & Chakraborty, U.K. (2005c) Two improved differential evolution schemes for faster global search. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 991–998, ACM Press, Washington DC, USA.

[Day *et al.*(2005)Day, Nunez & Lamont] Day, R.O., Nunez, A.S. & Lamont, G.B. (2005) Moea design of robust digital symbol sets. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2213–2214, ACM Press, Washington DC, USA.

[de França *et al.*(2005)de França, Von Zuben & de Castro] de França, F.O., Von Zuben, F.J. & de Castro, L.N. (2005) An artificial immune network for multimodal function optimization on dynamic environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 289–296, ACM Press, Washington DC, USA.

[de Jong(2005)] de Jong, E. (2005) The maxsolve algorithm for coevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 483–489, ACM Press, Washington DC, USA.

[de Jong *et al.*(2005)de Jong, Watson & Thierens] de Jong, E.D., Watson, R.A. & Thierens, D. (2005) On the complexity of hierarchical problem solving. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1201–1208, ACM Press, Washington DC, USA.

[de Silva & Suzuki(2005)] de Silva, U.C. & Suzuki, J. (2005) On the stationary distribution of gas with fixed crossover probability. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1147–1151, ACM Press, Washington DC, USA.

[Defaweux *et al.*(2005)Defaweux, Lenaerts, van Hemert & Parent] Defaweux, A., Lenaerts, T., van Hemert, J. & Parent, J. (2005) Transition models as an incremental approach for problem solving in evolutionary algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and*

evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 599–606, ACM Press, Washington DC, USA.

[Dempsey *et al.*(2005)Dempsey, O'Neill & Brabazon] Dempsey, I., O'Neill, M. & Brabazon, A. (2005) Meta-grammar constant creation with grammatical evolution by grammatical evolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1665–1671, ACM Press, Washington DC, USA.

[Derderian *et al.*(2005)Derderian, Hierons, Harman & Guo] Derderian, K., Hierons, R.M., Harman, M. & Guo, Q. (2005) Generating feasible input sequences for extended finite state machines (efsms) using genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1081–1082, ACM Press, Washington DC, USA.

[Diaz-Gomez & Hougen(2005)] Diaz-Gomez, P.A. & Hougen, D.F. (2005) Analysis and mathematical justification of a fitness function used in an intrusion detection system. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1591–1592, ACM Press, Washington DC, USA.

[Ding & Yu(2005)] Ding, L. & Yu, J. (2005) Some theoretical results about the computation time of evolutionary algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1409–1415, ACM Press, Washington DC, USA.

[Downing(2005)] Downing, K.L. (2005) The predictive basis of situated and embodied artificial intelligence. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 43–50, ACM Press, Washington DC, USA.

[Droste(2005)] Droste, S. (2005) Not all linear functions are equally difficult for the compact genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 679–686, ACM Press, Washington DC, USA.

[Drugowitsch & Barry(2005)] Drugowitsch, J. & Barry, A.M. (2005) Xcs with eligibility traces. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1851–1858, ACM Press, Washington DC, USA.

[Duarte *et al.*(2005)Duarte, Ángel Sánchez, Fernández & Cabido] Duarte, A., Ángel Sánchez, Fernández, F. & Cabido, R. (2005) A low-level hybridization between memetic algorithm and vns for the max-cut problem. *GECCO 2005: Proceedings of*

the 2005 conference on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 999–1006, ACM Press, Washington DC, USA.

[Duong & Grefenstette(2005)] Duong, D.V. & Grefenstette, J. (2005) The emulation of social institutions as a method of coevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 555–556, ACM Press, Washington DC, USA.

[Ecemis *et al.*(2005)Ecemis, Bonabeau & Ashburn] Ecemis, I., Bonabeau, E. & Ashburn, T. (2005) Interactive estimation of agent-based financial markets models: modularity and learning. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1897–1904, ACM Press, Washington DC, USA.

[Eiben *et al.*(2005)Eiben, Schut & Toma] Eiben, A.E., Schut, M.C. & Toma, T. (2005) Comparing multicast and newscast communication in evolving agent societies. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 75–81, ACM Press, Washington DC, USA.

[El-Abd & Kamel(2005)] El-Abd, M. & Kamel, M. (2005) Factors governing the behavior of multiple cooperating swarms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 269–270, ACM Press, Washington DC, USA.

[Fenton & Walsh(2005)] Fenton, P. & Walsh, P. (2005) A comparison of messy ga and permutation based ga for job shop scheduling. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1593–1594, ACM Press, Washington DC, USA.

[Ferreira *et al.*(2005)Ferreira, Vasconcelos & Adeodato] Ferreira, T.A.E., Vasconcelos, G.C. & Adeodato, P.J.L. (2005) A new evolutionary method for time series forecasting. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2221–2222, ACM Press, Washington DC, USA.

[Ferretti & Esquivel(2005)] Ferretti, E. & Esquivel, S. (2005) Knowledge insertion: an efficient approach to reduce effort in simple genetic algorithms for unrestricted parallel equal machines scheduling. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1587–1588, ACM Press, Washington DC, USA.

[Ficici(2005)] Ficici, S.G. (2005) Monotonic solution concepts in coevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer,

U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 499–506, ACM Press, Washington DC, USA.

[Firpi *et al.*(2005)Firpi, Goodman & Echauz] Firpi, H., Goodman, E. & Echauz, J. (2005) Epileptic seizure detection by means of genetically programmed artificial features. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 461–466, ACM Press, Washington DC, USA.

[Fleischer(2005)] Fleischer, M. (2005) Scale invariant pareto optimality: a meta–formalism for characterizing and modeling cooperativity in evolutionary systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 233–240, ACM Press, Washington DC, USA.

[Foong *et al.*(2005)Foong, Maier & Simpson] Foong, W.K., Maier, H.R. & Simpson, A.R. (2005) Ant colony optimization for power plant maintenance scheduling optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 249–256, ACM Press, Washington DC, USA.

[Foreman & Evett(2005)] Foreman, N. & Evett, M. (2005) Preventing overfitting in gp with canary functions. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1779–1780, ACM Press, Washington DC, USA.

[Funes & Pujals(2005)] Funes, P. & Pujals, E. (2005) Intransitivity revisited coevolutionary dynamics of numbers games. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 515–521, ACM Press, Washington DC, USA.

[Galeano *et al.*(2005)Galeano, Veloza-Suan & González] Galeano, J.C., Veloza-Suan, A. & González, F.A. (2005) A comparative analysis of artificial immune network models. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 361–368, ACM Press, Washington DC, USA.

[Garibay *et al.*(2005)Garibay, Wu & Garibay] Garibay, I., Wu, A.S. & Garibay, O. (2005) On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1177–1184, ACM Press, Washington DC, USA.

[Garrett *et al.*(2005)Garrett, Vannucci, Silva, Dasgupta & Simien] Garrett, D., Vannucci, J., Silva, R., Dasgupta, D. & Simien, J. (2005) Genetic algorithms for the sailor assignment problem.

GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1921–1928, ACM Press, Washington DC, USA.

[Geem *et al.*(2005)Geem, Lee & Tseng] Geem, Z.W., Lee, K.S. & Tseng, C.L. (2005) Harmony search for structural design. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 651–652, ACM Press, Washington DC, USA.

[Gelly *et al.*(2005)Gelly, Teytaud, Bredeche & Schoenauer] Gelly, S., Teytaud, O., Bredeche, N. & Schoenauer, M. (2005) A statistical learning theory approach of bloat. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1783–1784, ACM Press, Washington DC, USA.

[Giacobini *et al.*(2005)Giacobini, Tomassini & Tettamanzi] Giacobini, M., Tomassini, M. & Tettamanzi, A. (2005) Takeover time curves in random and small-world structured populations. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1333–1340, ACM Press, Washington DC, USA.

[Giráldez & Aguilar-Ruiz(2005)] Giráldez, R. & Aguilar-Ruiz, J.S. (2005) Feature influence for evolutionary learning. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1139–1145, ACM Press, Washington DC, USA.

[Gomez & Schmidhuber(2005)] Gomez, F.J. & Schmidhuber, J. (2005) Co-evolving recurrent neurons learn deep memory pomdps. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 491–498, ACM Press, Washington DC, USA.

[Gong *et al.*(2005a)Gong, Jiao, Du, Shang & Lu] Gong, M., Jiao, L., Du, H., Shang, R. & Lu, B. (2005a) Performance assessment of an artificial immune system multiobjective optimizer by two improved metrics. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 373–374, ACM Press, Washington DC, USA.

[Gong *et al.*(2005b)Gong, Wang, Jiao & Du] Gong, M., Wang, L., Jiao, L. & Du, H. (2005b) An artificial immune system algorithm for cdma multiuser detection over multi-path channels. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2105–2111, ACM Press, Washington DC, USA.

[Gong *et al.*(2005c)Gong, Nakamura & Tamaki] Gong, Y., Nakamura, M. & Tamaki, S. (2005c) Parallel genetic algorithms on line topology of heterogeneous computing resources. *GECCO 2005:*

Proceedings of the 2005 conference on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1447–1454, ACM Press, Washington DC, USA.

[González *et al.*(2005)González, Galeano, Rojas & Veloza-Suan] González, F.A., Galeano, J.C., Rojas, D.A. & Veloza-Suan, A. (2005) Discriminating and visualizing anomalies using negative selection and self-organizing maps. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 297–304, ACM Press, Washington DC, USA.

[Gordon & Bentley(2005)] Gordon, T.G.W. & Bentley, P.J. (2005) Bias and scalability in evolutionary development. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 83–90, ACM Press, Washington DC, USA.

[Graham *et al.*(2005)Graham, Masum & Oppacher] Graham, L., Masum, H. & Oppacher, F. (2005) Statistical analysis of heuristics for evolving sorting networks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1265–1270, ACM Press, Washington DC, USA.

[Grasemann & Miikkulainen(2005)] Grasemann, U. & Miikkulainen, R. (2005) Effective image compression using evolved wavelets. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1961–1968, ACM Press, Washington DC, USA.

[Greene(2005)] Greene, W.A. (2005) Schema disruption in tree-structured chromosomes. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1401–1408, ACM Press, Washington DC, USA.

[Grosso *et al.*(2005)Grosso, Antoniol, Penta, Galinier & Merlo] Grosso, C.D., Antoniol, G., Penta, M.D., Galinier, P. & Merlo, E. (2005) Improving network applications security: a new heuristic to generate stress testing data. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1037–1043, ACM Press, Washington DC, USA.

[Gunia(2005)] Gunia, C. (2005) On the analysis of the approximation capability of simple evolutionary algorithms for scheduling problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 571–578, ACM Press, Washington DC, USA.

[Guo *et al.*(2005)Guo, Han & Tay] Guo, Z., Han, H.K. & Tay, J.C. (2005) Sufficiency verification of hiv-1 pathogenesis based on multi-agent simulation. *GECCO 2005: Proceedings of the 2005*

conference on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 305–312, ACM Press, Washington DC, USA.

[Guofang *et al.*(2005)Guofang, Minqiang & Jisong] Guofang, N., Minqiang, L. & Jisong, K. (2005) Multi-level genetic algorithm (mlga) for the construction of clock binary tree. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1441–1445, ACM Press, Washington DC, USA.

[H.(2005)] H., J.A.M. (2005) Search space modulation in genetic algorithms: evolving the search space by sinusoidal transformations. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1559–1560, ACM Press, Washington DC, USA.

[Haas *et al.*(2005)Haas, Peysakhov & Mancoridis] Haas, J., Peysakhov, M. & Mancoridis, S. (2005) Ga-based parameter tuning for multi-agent systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1085–1086, ACM Press, Washington DC, USA.

[Han & Bhanu(2005)] Han, J. & Bhanu, B. (2005) Hierarchical multi-sensor image registration using evolutionary computation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2045–2052, ACM Press, Washington DC, USA.

[Hang & Dai(2005)] Hang, X. & Dai, H. (2005) Applying both positive and negative selection to supervised learning for anomaly detection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 345–352, ACM Press, Washington DC, USA.

[Harman *et al.*(2005)Harman, Swift & Mahdavi] Harman, M., Swift, S. & Mahdavi, K. (2005) An empirical study of the robustness of two module clustering fitness functions. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1029–1036, ACM Press, Washington DC, USA.

[Hartmann(2005)] Hartmann, V. (2005) Evolving agent swarms for clustering and sorting. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 217–224, ACM Press, Washington DC, USA.

[Hasenjäger *et al.*(2005)Hasenjäger, Sendhoff, Sonoda & Arima] Hasenjäger, M., Sendhoff, B., Sonoda, T. & Arima, T. (2005) Three dimensional evolutionary aerodynamic design optimization with cma-es. *GECCO 2005: Proceedings of the 2005 conference on Genetic and*

evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2173–2180, ACM Press, Washington DC, USA.

[Hernandez *et al.*(2005)Hernandez, Wilder, Nino & Garcia] Hernandez, G., Wilder, K., Nino, F. & Garcia, J. (2005) Towards a self-stopping evolutionary algorithm using coupling from the past. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 615–620, ACM Press, Washington DC, USA.

[Hijazi *et al.*(2005)Hijazi, Natarajan & Das] Hijazi, S.L., Natarajan, B. & Das, S. (2005) An ant colony algorithm for multi-user detection in wireless communication systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2121–2126, ACM Press, Washington DC, USA.

[Hiroyasu *et al.*(2005)Hiroyasu, Miki, Nakayama & Hanada] Hiroyasu, T., Miki, M., Nakayama, S. & Hanada, Y. (2005) Multi-objective optimization of diesel engine emissions and fuel economy using spea2+. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2195–2196, ACM Press, Washington DC, USA.

[Ho & Shimizu(2005)] Ho, P.Y. & Shimizu, K. (2005) Simple addition of ranking method for constrained optimization in evolutionary algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 889–896, ACM Press, Washington DC, USA.

[Hohm & Hoffmann(2005)] Hohm, T. & Hoffmann, D. (2005) A multi-objective evolutionary approach to peptide structure redesign and stabilization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 423–429, ACM Press, Washington DC, USA.

[Hong *et al.*(2005)Hong, Ren & Zeng] Hong, Y., Ren, Q. & Zeng, J. (2005) Genetic drift in univariate marginal distribution algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 745–746, ACM Press, Washington DC, USA.

[Horn(2005)] Horn, J. (2005) Shape nesting by coevolving species. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 557–558, ACM Press, Washington DC, USA.

[Hornby(2005)] Hornby, G.S. (2005) Measuring, enabling and comparing modularity, regularity and hierarchy in evolutionary design. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong,

H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1729–1736, ACM Press, Washington DC, USA.

[hsiung Chan *et al.*(2005)hsiung Chan, Lee, Kao & Tsai] hsiung Chan, C., Lee, S.A., Kao, C.Y. & Tsai, H.K. (2005) Improving eax with restricted 2-opt. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1471–1476, ACM Press, Washington DC, USA.

[Hu *et al.*(2005)Hu, Zhong & Goodman] Hu, J., Zhong, X. & Goodman, E.D. (2005) Open-ended robust design of analog filters using genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1619–1626, ACM Press, Washington DC, USA.

[hua Yang *et al.*(2005)hua Yang, cheng Fang & qiang Qi] hua Yang, Z., cheng Fang, J. & qiang Qi, Z. (2005) Flight midcourse guidance control based on genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1501–1506, ACM Press, Washington DC, USA.

[Huang *et al.*(2005)Huang, Bieniawski, Wolpert & Strauss] Huang, C.F., Bieniawski, S., Wolpert, D.H. & Strauss, C.E.M. (2005) A comparative study of probability collectives based multi-agent systems and genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 751–752, ACM Press, Washington DC, USA.

[Huang & Rocha(2005)] Huang, C.F. & Rocha, L.M. (2005) Tracking extrema in dynamic environments using a coevolutionary agent-based model of genotype edition. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 545–552, ACM Press, Washington DC, USA.

[Hunt *et al.*(2005)Hunt, Hornby & Lohn] Hunt, R., Hornby, G.S. & Lohn, J.D. (2005) Toward evolved flight. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 957–964, ACM Press, Washington DC, USA.

[Iglesias *et al.*(2005)Iglesias, Naudts, Verschoren & Vidal] Iglesias, M.T., Naudts, B., Verschoren, A. & Vidal, C. (2005) Walsh transforms, balanced sum theorems and partition coefficients over multary alphabets. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1303–1308, ACM Press, Washington DC, USA.

[Ishibuchi & Narukawa(2005)] Ishibuchi, H. & Narukawa, K. (2005) Comparison of evolutionary multiobjective optimization with rference solution-based single-objective approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz,

D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 787–794, ACM Press, Washington DC, USA.

[Ishibuchi *et al.*(2005)Ishibuchi, Narukawa & Nojima] Ishibuchi, H., Narukawa, K. & Nojima, Y. (2005) An empirical study on the handling of overlapping solutions in evolutionary multiobjective optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 817–824, ACM Press, Washington DC, USA.

[Jägersküpper & Witt(2005)] Jägersküpper, J. & Witt, C. (2005) Rigorous runtime analysis of a (μ+1)es for the sphere function. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 849–856, ACM Press, Washington DC, USA.

[Jackson(2005a)] Jackson, D. (2005a) Dormant program nodes and the efficiency of genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1745–1751, ACM Press, Washington DC, USA.

[Jackson(2005b)] Jackson, D. (2005b) Parsing and translation of expressions by genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1681–1688, ACM Press, Washington DC, USA.

[Janikow & Mann(2005)] Janikow, C.Z. & Mann, C.J. (2005) Cgp visits the santa fe trail: effects of heuristics on gp. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1697–1704, ACM Press, Washington DC, USA.

[Jansen & Schellbach(2005)] Jansen, T. & Schellbach, U. (2005) Theoretical analysis of a mutation-based evolutionary algorithm for a tracking problem in the lattice. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 841–848, ACM Press, Washington DC, USA.

[Ji & Dasgupta(2005)] Ji, Z. & Dasgupta, D. (2005) Estimating the detector coverage in a negative selection algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 281–288, ACM Press, Washington DC, USA.

[Jin *et al.*(2005)Jin, Kao, Huang, Hsu, Lee & Lee] Jin, M.H., Kao, C.Y., Huang, Y.C., Hsu, D.F., Lee, R.G. & Lee, C.K. (2005) Compact genetic algorithm for active interval scheduling in hierarchical sensor networks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson,

X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2205–2206, ACM Press, Washington DC, USA.

[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. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 585–590, ACM Press, Washington DC, USA.

[Julstrom(2005b)] Julstrom, B.A. (2005b) Greedy, genetic, and greedy genetic algorithms for the quadratic knapsack problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 607–614, ACM Press, Washington DC, USA.

[Kavka *et al.*(2005)Kavka, Roggero & Schoenauer] Kavka, C., Roggero, P. & Schoenauer, M. (2005) Evolution of voronoi based fuzzy recurrent controllers. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1385–1392, ACM Press, Washington DC, USA.

[Keijzer *et al.*(2005)Keijzer, Baptist, Babovic & Uthurburu] Keijzer, M., Baptist, M., Babovic, V. & Uthurburu, J.R. (2005) Determining equations for vegetation induced resistance using genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1999–2006, ACM Press, Washington DC, USA.

[Kennedy(2005)] Kennedy, J. (2005) Dynamic-probabilistic particle swarms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 201–207, ACM Press, Washington DC, USA.

[Keymeulen *et al.*(2005)Keymeulen, Fink, Ferguson, Peay, Oks, Terrile & Yee] Keymeulen, D., Fink, W., Ferguson, M.I., Peay, C., Oks, B., Terrile, R. & Yee, K. (2005) Evolutionary computation applied to the tuning of mems gyroscopes. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 927–932, ACM Press, Washington DC, USA.

[Kicinger *et al.*(2005)Kicinger, Arciszewski & De Jong] Kicinger, R., Arciszewski, T. & De Jong, K. (2005) Parameterized versus generative representations in structural design: an empirical comparison. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2007–2014, ACM Press, Washington DC, USA.

[Kim *et al.*(2005)Kim, Choi & Moon] Kim, J.H., Choi, S.S. & Moon, B.R. (2005) Normalization for neural network in genetic search. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong,

H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1581–1582, ACM Press, Washington DC, USA.

[Kim & Moon(2005)] Kim, Y.H. & Moon, B.R. (2005) New topologies for genetic search space. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1393–1399, ACM Press, Washington DC, USA.

[Kimura & Matsumura(2005)] Kimura, S. & Matsumura, K. (2005) Genetic algorithms using low-discrepancy sequences. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1341–1346, ACM Press, Washington DC, USA.

[Knidel *et al.*(2005)Knidel, de Castro & Von Zuben] Knidel, H., de Castro, L.N. & Von Zuben, F.J. (2005) Rabnet: a real-valued antibody network for data clustering. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 371–372, ACM Press, Washington DC, USA.

[Koduru *et al.*(2005)Koduru, Das, Welch, Roe & Lopez-Dee] Koduru, P., Das, S., Welch, S., Roe, J.L. & Lopez-Dee, Z.P. (2005) A co-evolutionary hybrid algorithm for multi-objective optimization of gene regulatory network models. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 393–399, ACM Press, Washington DC, USA.

[Konak & Smith(2005)] Konak, A. & Smith, A.E. (2005) Designing resilient networks using a hybrid genetic algorithm approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1279–1285, ACM Press, Washington DC, USA.

[Koza *et al.*(2005)Koza, Al-Sakran & Jones] Koza, J.R., Al-Sakran, S.H. & Jones, L.W. (2005) Automated re-invention of six patented optical lens systems using genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1953–1960, ACM Press, Washington DC, USA.

[Kramer *et al.*(2005)Kramer, Ting & Büning] Kramer, O., Ting, C.K. & Büning, H.K. (2005) A mutation operator for evolution strategies to handle constrained problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 917–918, ACM Press, Washington DC, USA.

[Kurz & Canterbury(2005)] Kurz, M.E. & Canterbury, S. (2005) Minimizing total flowtime and maximum earliness on a single machine using multiple measures of fitness. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta,

K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 803–809, ACM Press, Washington DC, USA.

[Kwon *et al.*(2005)Kwon, Choi & Moon] Kwon, Y.K., Choi, S.S. & Moon, B.R. (2005) Stock prediction based on financial correlation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2061–2066, ACM Press, Washington DC, USA.

[Kwon & Moon(2005)] Kwon, Y.K. & Moon, B.R. (2005) Nonlinear feature extraction using a neuro genetic hybrid. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2089–2096, ACM Press, Washington DC, USA.

[Lameijer *et al.*(2005)Lameijer, IJzerman & Kok] Lameijer, E.W., IJzerman, A. & Kok, J. (2005) The molecule evoluator: an interactive evolutionary algorithm for designing drug molecules. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1969–1976, ACM Press, Washington DC, USA.

[Lammermann & Wappler(2005)] Lammermann, F. & Wappler, S. (2005) Benefits of software measures for evolutionary white-box testing. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1083–1084, ACM Press, Washington DC, USA.

[Landau *et al.*(2005)Landau, Sigaud & Schoenauer] Landau, S., Sigaud, O. & Schoenauer, M. (2005) Atnosferes revisited. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1867–1874, ACM Press, Washington DC, USA.

[Lanzi *et al.*(2005a)Lanzi, Loiacono, Wilson & Goldberg] Lanzi, P.L., Loiacono, D., Wilson, S.W. & Goldberg, D.E. (2005a) Extending xcsf beyond linear approximation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1827–1834, ACM Press, Washington DC, USA.

[Lanzi *et al.*(2005b)Lanzi, Loiacono, Wilson & Goldberg] Lanzi, P.L., Loiacono, D., Wilson, S.W. & Goldberg, D.E. (2005b) Xcs with computed prediction in multistep environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1859–1866, ACM Press, Washington DC, USA.

[Lasarczyk & Banzhaf(2005)] Lasarczyk, C.W.G. & Banzhaf, W. (2005) Total synthesis of algorithmic chemistries. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora,

S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1635–1640, ACM Press, Washington DC, USA.

[León-Barranco *et al.*(2005)León-Barranco, Barajas & Reyes] León-Barranco, A., Barajas, S.E. & Reyes, C.A. (2005) Argen + arepo: mixing the artificial genetic engineering and artificial evolution of populations to improve the search process. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1597–1598, ACM Press, Washington DC, USA.

[Lee & Bulitko(2005)] Lee, G. & Bulitko, V. (2005) Gamm: genetic algorithms with meta-models for vision. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2029–2036, ACM Press, Washington DC, USA.

[Legg & Hutter(2005)] Legg, S. & Hutter, M. (2005) Fitness uniform deletion: a simple way to preserve diversity. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1271–1278, ACM Press, Washington DC, USA.

[Lehmann & Kaufmann(2005)] Lehmann, K.A. & Kaufmann, M. (2005) Evolutionary algorithms for the self-organized evolution of networks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 563–570, ACM Press, Washington DC, USA.

[Li *et al.*(2005)Li, Azarm & Aute] Li, M., Azarm, S. & Aute, V. (2005) A multi-objective genetic algorithm for robust design optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 771–778, ACM Press, Washington DC, USA.

[Li(2005)] Li, X. (2005) Efficient differential evolution using speciation for multimodal function optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 873–880, ACM Press, Washington DC, USA.

[Liang *et al.*(2005)Liang, Lee & Wu] Liang, H.L., Lee, C. & Wu, J.S. (2005) Multiplex pcr primer design for gene family using genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 67–74, ACM Press, Washington DC, USA.

[Lim & Sim(2005)] Lim, C. & Sim, E. (2005) Production planning in manufacturing/remanufacturing environment using genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2217–2218, ACM Press, Washington DC, USA.

[Lima *et al.*(2005)Lima, Sastry, Goldberg & Lobo] Lima, C.F., Sastry, K., Goldberg, D.E. & Lobo, F.G. (2005) Combining competent crossover and mutation operators: a probabilistic model building approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 735–742, ACM Press, Washington DC, USA.

[Lin *et al.*(2005)Lin, Huang, Huang & Horng] Lin, F.M., Huang, H.D., Huang, H.Y. & Horng, J.T. (2005) Primer design for multiplex pcr using a genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 475–476, ACM Press, Washington DC, USA.

[Liu *et al.*(2005)Liu, Chen, Chen, Hwang & Ho] Liu, B.F., Chen, H.M., Chen, J.H., Hwang, S.F. & Ho, S.Y. (2005) Meswarm: memetic particle swarm optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 267–268, ACM Press, Washington DC, USA.

[Liu & Lampinen(2005)] Liu, J. & Lampinen, J. (2005) A differential evolution based incremental training method for rbf networks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 881–888, ACM Press, Washington DC, USA.

[Llorà *et al.*(2005a)Llorà, Sastry & Goldberg] Llorà, X., Sastry, K. & Goldberg, D.E. (2005a) The compact classifier system: motivation, analysis, and first results. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1993–1994, ACM Press, Washington DC, USA.

[Llorà *et al.*(2005b)Llorà, Sastry, Goldberg, Gupta & Lakshmi] Llorà, X., Sastry, K., Goldberg, D.E., Gupta, A. & Lakshmi, L. (2005b) Combating user fatigue in igas: partial ordering, support vector machines, and synthetic fitness. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1363–1370, ACM Press, Washington DC, USA.

[Looks *et al.*(2005)Looks, Goertzel & Pennachin] Looks, M., Goertzel, B. & Pennachin, C. (2005) Learning computer programs with the bayesian optimization algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 747–748, ACM Press, Washington DC, USA.

[Luke(2005)] Luke, S. (2005) Evolutionary computation and the c-value paradox. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 91–97, ACM Press, Washington DC, USA.

[Lunacek *et al.*(2005)Lunacek, Whitley & Knight] Lunacek, M., Whitley, D. & Knight, J.N. (2005) Measuring mobility and the performance of global search algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1209–1216, ACM Press, Washington DC, USA.

[Luo *et al.*(2005)Luo, Heywood & Zincir-Heywood] Luo, X., Heywood, M.I. & Zincir-Heywood, A.N. (2005) Evolving recurrent models using linear gp. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1787–1788, ACM Press, Washington DC, USA.

[Lyman & Lewandowski(2005)] Lyman, M. & Lewandowski, G. (2005) Genetic programming for association rules on card sorting data. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1551–1552, ACM Press, Washington DC, USA.

[Majeed *et al.*(2005)Majeed, Ryan & Azad] Majeed, H., Ryan, C. & Azad, R.M.A. (2005) Evaluating gp schema in context. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1773–1774, ACM Press, Washington DC, USA.

[Martin(2005)] Martin, J.G. (2005) Subproblem optimization by gene correlation with singular value decomposition. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1507–1514, ACM Press, Washington DC, USA.

[Massey *et al.*(2005)Massey, Clark & Stepney] Massey, P., Clark, J.A. & Stepney, S. (2005) Evolution of a human-competitive quantum fourier transform algorithm using genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1657–1663, ACM Press, Washington DC, USA.

[Matos *et al.*(2005)Matos, Suzuki & Arita] Matos, A., Suzuki, R. & Arita, T. (2005) Evolutionary models for maternal effects in simulated developmental systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 149–150, ACM Press, Washington DC, USA.

[McLoughlin, III & Cedeño(2005)] McLoughlin, III, J.F. & Cedeño, W. (2005) The enhanced evolutionary tabu search and its application to the quadratic assignment problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 975–982, ACM Press, Washington DC, USA.

[McMinn & Holcombe(2005)] McMinn, P. & Holcombe, M. (2005) Evolutionary testing of state-based programs. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary*

computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1013–1020, ACM Press, Washington DC, USA.

[McPartland *et al.*(2005)McPartland, Nolfi & Abbass] McPartland, M., Nolfi, S. & Abbass, H.A. (2005) Emergence of communication in competitive multi-agent systems: a pareto multi-objective approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 51–58, ACM Press, Washington DC, USA.

[McPhee & Crane(2005)] McPhee, N.F. & Crane, E.F. (2005) A theoretical analysis of the hiff problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1153–1160, ACM Press, Washington DC, USA.

[Meekhof & Heckendorn(2005)] Meekhof, T. & Heckendorn, R.B. (2005) Using evolutionary optimization to improve markov-based classification with limited training data. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2211–2212, ACM Press, Washington DC, USA.

[Mellor(2005)] Mellor, D. (2005) A first order logic classifier system. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1819–1826, ACM Press, Washington DC, USA.

[Mezura-Montes *et al.*(2005)Mezura-Montes, Velázquez-Reyes & Coello Coello] Mezura-Montes, E., Velázquez-Reyes, J. & Coello Coello, C.A. (2005) Promising infeasibility and multiple offspring incorporated to differential evolution for constrained optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 225–232, ACM Press, Washington DC, USA.

[Mierswa(2005)] Mierswa, I. (2005) Incorporating fuzzy knowledge into fitness: multiobjective evolutionary 3d design of process plants. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1985–1992, ACM Press, Washington DC, USA.

[Monson & Seppi(2005a)] Monson, C.K. & Seppi, K.D. (2005a) Bayesian optimization models for particle swarms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 193–200, ACM Press, Washington DC, USA.

[Monson & Seppi(2005b)] Monson, C.K. & Seppi, K.D. (2005b) Exposing origin-seeking bias in pso. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds.

H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 241–248, ACM Press, Washington DC, USA.

[Montana & Redi(2005)] Montana, D. & Redi, J. (2005) Optimizing parameters of a mobile ad hoc network protocol with a genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1993–1998, ACM Press, Washington DC, USA.

[Moore(2005)] Moore, F.W. (2005) A genetic algorithm for optimized reconstruction of quantized one-dimensional signals. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1599–1600, ACM Press, Washington DC, USA.

[Mori *et al.*(2005)Mori, Takeda & Matsumoto] Mori, N., Takeda, M. & Matsumoto, K. (2005) A comparison study between genetic algorithms and bayesian optimize algorithms by novel indices. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1485–1492, ACM Press, Washington DC, USA.

[Murata & Nakamura(2005)] Murata, T. & Nakamura, T. (2005) Genetic network programming with automatically defined groups for assigning proper roles to multiple agents. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1705–1712, ACM Press, Washington DC, USA.

[Murata & Yamaguchi(2005)] Murata, T. & Yamaguchi, M. (2005) Neighboring crossover to improve ga-based q-learning method for multi-legged robot control. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 145–146, ACM Press, Washington DC, USA.

[Nashvili *et al.*(2005)Nashvili, Olhofer & Sendhoff] Nashvili, M., Olhofer, M. & Sendhoff, B. (2005) Morphing methods in evolutionary design optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 897–904, ACM Press, Washington DC, USA.

[Nassu *et al.*(2005)Nassu, Duarte, Jr. & Pozo] Nassu, B.T., Duarte, Jr., E.P. & Pozo, A.T.R. (2005) A comparison of evolutionary algorithms for system-level diagnosis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2053–2060, ACM Press, Washington DC, USA.

[Neumann & Wegener(2005)] Neumann, F. & Wegener, I. (2005) Minimum spanning trees made easier via multi-objective optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf,

C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 763–769, ACM Press, Washington DC, USA.

[Noman & Iba(2005a)] Noman, N. & Iba, H. (2005a) Enhancing differential evolution performance with local search for high dimensional function optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 967–974, ACM Press, Washington DC, USA.

[Noman & Iba(2005b)] Noman, N. & Iba, H. (2005b) Inference of gene regulatory networks using s-system and differential evolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 439–446, ACM Press, Washington DC, USA.

[Nummela & Julstrom(2005)] Nummela, J. & Julstrom, B.A. (2005) Evolving petri nets to represent metabolic pathways. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2133–2139, ACM Press, Washington DC, USA.

[Nunn & White(2005)] Nunn, I. & White, T. (2005) The application of antigenic search techniques to time series forecasting. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 353–360, ACM Press, Washington DC, USA.

[Ohnishi & Yoshida(2005)] Ohnishi, K. & Yoshida, K. (2005) Evolutionary change in developmental timing. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1561–1562, ACM Press, Washington DC, USA.

[Ondas *et al.*(2005)Ondas, Pelikan & Sastry] Ondas, R., Pelikan, M. & Sastry, K. (2005) Scalability of genetic programming and probabilistic incremental program evolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1785–1786, ACM Press, Washington DC, USA.

[Ong *et al.*(2005)Ong, Saunders, Keyser & Leggett] Ong, T.J., Saunders, R., Keyser, J. & Leggett, J.J. (2005) Terrain generation using genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1463–1470, ACM Press, Washington DC, USA.

[Pakhira & De(2005)] Pakhira, M.K. & De, R.K. (2005) A hardware pipeline for function optimization using genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 949–956, ACM Press, Washington DC, USA.

[Pardoe *et al.*(2005)Pardoe, Ryoo & Miikkulainen] Pardoe, D., Ryoo, M. & Miikkulainen, R. (2005) Evolving neural network ensembles for control problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1379–1384, ACM Press, Washington DC, USA.

[Parker & Georgescu(2005)] Parker, G. & Georgescu, R. (2005) Evolution of multi-loop controllers for fixed morphology with a cyclic genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 147–148, ACM Press, Washington DC, USA.

[Paszynska(2005)] Paszynska, A. (2005) An extension of vose's markov chain model for genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1553–1554, ACM Press, Washington DC, USA.

[Paul *et al.*(2005)Paul, Lipson & Cuevas] Paul, C., Lipson, H. & Cuevas, F.J.V. (2005) Evolutionary form-finding of tensegrity structures. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 3–10, ACM Press, Washington DC, USA.

[Paul & Iba(2005)] Paul, T.K. & Iba, H. (2005) Extraction of informative genes from microarray data. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 453–460, ACM Press, Washington DC, USA.

[Payne & Eppstein(2005)] Payne, J.L. & Eppstein, M.J. (2005) A hybrid genetic algorithm with pattern search for finding heavy atoms in protein crystals. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 377–384, ACM Press, Washington DC, USA.

[Peña *et al.*(2005)Peña, Rionda & Aguirre] Peña, S.I.V., Rionda, S.B. & Aguirre, A.H. (2005) Multiobjective shape optimization with constraints based on estimation distribution algorithms and correlated information. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 749–750, ACM Press, Washington DC, USA.

[Pelikan *et al.*(2005)Pelikan, Sastry & Goldberg] Pelikan, M., Sastry, K. & Goldberg, D.E. (2005) Multiobjective hboa, clustering, and scalability. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 663–670, ACM Press, Washington DC, USA.

[Perelman & Ostfeld(2005)] Perelman, L. & Ostfeld, A. (2005) Water distribution systems optimal design using cross entropy. *GECCO 2005: Proceedings of the 2005 conference on Genetic and*

evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 647–648, ACM Press, Washington DC, USA.

[Peterson *et al.*(2005)Peterson, Doom & Raymer] Peterson, M.R., Doom, T.E. & Raymer, M.L. (2005) Ga-facilitated classifier optimization with varying similarity measures. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1549–1550, ACM Press, Washington DC, USA.

[Pham(2005)] Pham, Q.T. (2005) Evolutionary optimization of dynamic control problems accelerated by progressive step reduction. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2181–2187, ACM Press, Washington DC, USA.

[Phienthrakul & Kijsirikul(2005)] Phienthrakul, T. & Kijsirikul, B. (2005) Evolutionary strategies for multi-scale radial basis function kernels in support vector machines. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 905–911, ACM Press, Washington DC, USA.

[Philemotte & Bersini(2005)] Philemotte, C. & Bersini, H. (2005) Intrinsic emergence boosts adaptive capacity. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 559–560, ACM Press, Washington DC, USA.

[Pillay(2005)] Pillay, N. (2005) An investigation into using genetic programming as a means of inducing solutions to novice procedural programming problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1781–1782, ACM Press, Washington DC, USA.

[Poladian(2005)] Poladian, L. (2005) A ga for maximum likelihood phylogenetic inference using neighbour-joining as a genotype to phenotype mapping. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 415–422, ACM Press, Washington DC, USA.

[Poli *et al.*(2005)Poli, Di Chio & Langdon] Poli, R., Di Chio, C. & Langdon, W.B. (2005) Exploring extended particle swarms: a genetic programming approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 169–176, ACM Press, Washington DC, USA.

[Poli & Langdon(2005)] Poli, R. & Langdon, W.B. (2005) Backward-chaining genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1777–1778, ACM Press, Washington DC, USA.

[Popovici & De Jong(2005)] Popovici, E. & De Jong, K. (2005) Understanding cooperative co-evolutionary dynamics via simple fitness landscapes. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 507–514, ACM Press, Washington DC, USA.

[Preuss *et al.*(2005)Preuss, Schönemann & Emmerich] Preuss, M., Schönemann, L. & Emmerich, M. (2005) Counteracting genetic drift and disruptive recombination in (μpluskommaλ)-ea on multimodal fitness landscapes. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 865–872, ACM Press, Washington DC, USA.

[Prodan *et al.*(2005)Prodan, Udrescu & Vladutiu] Prodan, L., Udrescu, M. & Vladutiu, M. (2005) Multiple-level concatenated coding in embryonics: a dependability analysis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 941–948, ACM Press, Washington DC, USA.

[Quintana *et al.*(2005)Quintana, Luque & Isasi] Quintana, D., Luque, C. & Isasi, P. (2005) Evolutionary rule-based system for ipo underpricing prediction. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 983–989, ACM Press, Washington DC, USA.

[Rand & Riolo(2005)] Rand, W. & Riolo, R. (2005) The problem with a self-adaptative mutation rate in some environments: a case study using the shaky ladder hyperplane-defined functions. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1493–1500, ACM Press, Washington DC, USA.

[Raquel & Naval, Jr.(2005)] Raquel, C.R. & Naval, Jr., P.C. (2005) An effective use of crowding distance in multiobjective particle swarm optimization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 257–264, ACM Press, Washington DC, USA.

[Ravichandran *et al.*(2005)Ravichandran, Gandhe & Smith] Ravichandran, B., Gandhe, A. & Smith, R.E. (2005) Xcs for robust automatic target recognition. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1803–1810, ACM Press, Washington DC, USA.

[Reis *et al.*(2005)Reis, Machado & Cunha] Reis, C., Machado, J.A.T. & Cunha, J.B. (2005) Fractional dynamic fitness functions for ga-based circuit design. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1571–1572, ACM Press, Washington DC, USA.

[Ressom *et al.*(2005)Ressom, Varghese, Saha, Orvisky, Goldman, Petricoin, Conrads, Veenstra, Abdel-Hamid, Loffredo & Ressom, H., Varghese, R.S., Saha, D., Orvisky, E., Goldman, L., Petricoin, E.F., Conrads, T.P., Veenstra, T.D., Abdel-Hamid, M., Loffredo, C.A. & Goldman, R. (2005) Particle swarm optimization for analysis of mass spectral serum profiles. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 431–438, ACM Press, Washington DC, USA.

[Richards *et al.*(2005)Richards, Whitley, Beveridge, Mytkowicz, Nguyen & Rome] Richards, M.D., Whitley, D., Beveridge, J.R., Mytkowicz, T., Nguyen, D. & Rome, D. (2005) Evolving cooperative strategies for uav teams. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1721–1728, ACM Press, Washington DC, USA.

[Richter *et al.*(2005)Richter, Paxton & Wright] Richter, J.N., Paxton, J. & Wright, A. (2005) Ea models and population fixed-points versus mutation rates for functions of unitation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1233–1240, ACM Press, Washington DC, USA.

[Ridder & HandUber(2005)] Ridder, J.P. & HandUber, J.C. (2005) Mission planning for joint suppression of enemy air defenses using a genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1929–1936, ACM Press, Washington DC, USA.

[Rieffel & Pollack(2005)] Rieffel, J. & Pollack, J. (2005) Automated assembly as situated development: using artificial ontogenies to evolve buildable 3-d objects. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 99–106, ACM Press, Washington DC, USA.

[Rothlauf *et al.*(2005)Rothlauf, Schunk & Pfeiffer] Rothlauf, F., Schunk, D. & Pfeiffer, J. (2005) Classification of human decision behavior: finding modular decision rules with genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2021–2028, ACM Press, Washington DC, USA.

[Russell & Lamont(2005)] Russell, M.A. & Lamont, G.B. (2005) A genetic algorithm for unmanned aerial vehicle routing. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1523–1530, ACM Press, Washington DC, USA.

[Sait *et al.*(2005a)Sait, Faheemuddin, Minhas & Sanaullah] Sait, S.M., Faheemuddin, M., Minhas, M.R. & Sanaullah, S. (2005a) Multiobjective vlsi cell placement using distributed genetic algorithm. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora,

S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1585–1586, ACM Press, Washington DC, USA.

[Sait *et al.*(2005b)Sait, Sanaullah, Zaidi & Ali] Sait, S.M., Sanaullah, S., Zaidi, A.M. & Ali, M.I. (2005b) Comparative evaluation of parallelization strategies for evolutionary and stochastic heuristics. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 921–922, ACM Press, Washington DC, USA.

[Sakuma & Kobayashi(2005a)] Sakuma, J. & Kobayashi, S. (2005a) Latent variable crossover for k-tablet structures and its application to lens design problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1347–1354, ACM Press, Washington DC, USA.

[Sakuma & Kobayashi(2005b)] Sakuma, J. & Kobayashi, S. (2005b) Real-coded crossover as a role of kernel density estimation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 703–710, ACM Press, Washington DC, USA.

[Samples *et al.*(2005)Samples, Daida, Byom & Pizzimenti] Samples, M.E., Daida, J.M., Byom, M. & Pizzimenti, M. (2005) Parameter sweeps for exploring gp parameters. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1791–1792, ACM Press, Washington DC, USA.

[Samsonovich & De Jong(2005)] Samsonovich, A.V. & De Jong, K.A. (2005) Pricing the 'free lunch' of meta-evolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1355–1362, ACM Press, Washington DC, USA.

[Sanchez *et al.*(2005)Sanchez, Schillaci, Reorda, Squillero, Sterpone & Violante] Sanchez, E., Schillaci, M., Reorda, M.S., Squillero, G., Sterpone, L. & Violante, M. (2005) New evolutionary techniques for test-program generation for complex microprocessor cores. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2193–2194, ACM Press, Washington DC, USA.

[Sastry *et al.*(2005)Sastry, Abbass, Goldberg & Johnson] Sastry, K., Abbass, H.A., Goldberg, D.E. & Johnson, D.D. (2005) Sub-structural niching in estimation of distribution algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 671–678, ACM Press, Washington DC, USA.

[Sato & Kanno(2005)] Sato, Y. & Kanno, R. (2005) Event-driven learning classifier systems for online soccer games. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W.

Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2201–2202, ACM Press, Washington DC, USA.

[Schönemann(2005)] Schönemann, L. (2005) Optimal number of evolution strategies mutation step sizes in dynamic environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 923–924, ACM Press, Washington DC, USA.

[Scheutz & Schermerhorn(2005)] Scheutz, M. & Schermerhorn, P. (2005) Predicting population dynamics and evolutionary trajectories based on performance evaluations in alife simulations. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 35–42, ACM Press, Washington DC, USA.

[Schlessinger *et al.*(2005)Schlessinger, Bentley & Lotto] Schlessinger, E., Bentley, P.J. & Lotto, R.B. (2005) Evolving visually guided agents in an ambiguous virtual world. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 115–120, ACM Press, Washington DC, USA.

[Schlichter *et al.*(2005)Schlichter, Haubelt & Teich] Schlichter, T., Haubelt, C. & Teich, J. (2005) Improving ea-based design space exploration by utilizing symbolic feasibility tests. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1945–1952, ACM Press, Washington DC, USA.

[Schmickl *et al.*(2005)Schmickl, Thenius & Crailsheim] Schmickl, T., Thenius, R. & Crailsheim, K. (2005) Simulating swarm intelligence in honey bees: foraging in differently fluctuating environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 273–274, ACM Press, Washington DC, USA.

[Schmitt(2005)] Schmitt, K. (2005) Using gene deletion and gene duplication in evolution strategies. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 919–920, ACM Press, Washington DC, USA.

[Schmitt *et al.*(2005)Schmitt, Mehnen & Michelitsch] Schmitt, K., Mehnen, J. & Michelitsch, T. (2005) Using predators and preys in evolution strategies. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 827–828, ACM Press, Washington DC, USA.

[Schonfeld & Ashlock(2005)] Schonfeld, J. & Ashlock, D. (2005) A study of evolutionary robustness in stochastically tiled polyominos. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum,

E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 19–26, ACM Press, Washington DC, USA.

[Seehuus *et al.*(2005)Seehuus, Tveit & Edsberg] Seehuus, R., Tveit, A. & Edsberg, O. (2005) Discovering biological motifs with genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 401–408, ACM Press, Washington DC, USA.

[Seeluangsawat & Chongstitvatana(2005)] Seeluangsawat, P. & Chongstitvatana, P. (2005) A multiple objective evolutionary algorithm for multiple sequence alignment. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 477–478, ACM Press, Washington DC, USA.

[Seng *et al.*(2005)Seng, Bauer, Biehl & Pache] Seng, O., Bauer, M., Biehl, M. & Pache, G. (2005) Search-based improvement of subsystem decompositions. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1045–1051, ACM Press, Washington DC, USA.

[Seo & Moon(2005)] Seo, D.I. & Moon, B.R. (2005) Computing the epistasis variance of large-scale traveling salesman problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1169–1176, ACM Press, Washington DC, USA.

[Seo *et al.*(2005)Seo, Goodman & Rosenberg] Seo, K., Goodman, E.D. & Rosenberg, R.C. (2005) Design of air pump system using bond graph and genetic programming method. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2215–2216, ACM Press, Washington DC, USA.

[Settles *et al.*(2005)Settles, Nathan & Soule] Settles, M., Nathan, P. & Soule, T. (2005) Breeding swarms: a new approach to recurrent neural network training. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 185–192, ACM Press, Washington DC, USA.

[Settles & Soule(2005)] Settles, M. & Soule, T. (2005) Breeding swarms: a ga/pso hybrid. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 161–168, ACM Press, Washington DC, USA.

[Shafti & Pérez(2005)] Shafti, L.S. & Pérez, E.P. (2005) Constructive induction and genetic algorithms for learning concepts with complex interaction. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1811–1818, ACM Press, Washington DC, USA.

[Shakya *et al.*(2005)Shakya, McCall & Brown] Shakya, S., McCall, J. & Brown, D. (2005) Using a markov network model in a univariate eda: an empirical cost-benefit analysis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 727–734, ACM Press, Washington DC, USA.

[Shapiro *et al.*(2005)Shapiro, Lamont & Peterson] Shapiro, J.M., Lamont, G.B. & Peterson, G.L. (2005) An evolutionary algorithm to generate hyper-ellipsoid detectors for negative selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 337–344, ACM Press, Washington DC, USA.

[Shir & Bäck(2005)] Shir, O.M. & Bäck, T. (2005) Niching in evolution strategies. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 915–916, ACM Press, Washington DC, USA.

[Silva & Costa(2005)] Silva, S. & Costa, E. (2005) Resource-limited genetic programming: the dynamic approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1673–1680, ACM Press, Washington DC, USA.

[Sit & Miikkulainen(2005)] Sit, Y.F. & Miikkulainen, R. (2005) Learning basic navigation for personal satellite assistant using neuroevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1913–1920, ACM Press, Washington DC, USA.

[Skellett *et al.*(2005)Skellett, Cairns, Geard, Tonkes & Wiles] Skellett, B., Cairns, B., Geard, N., Tonkes, B. & Wiles, J. (2005) Maximally rugged nk landscapes contain the highest peaks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 579–584, ACM Press, Washington DC, USA.

[Skolicki & De Jong(2005)] Skolicki, Z. & De Jong, K. (2005) The influence of migration sizes and intervals on island models. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1295–1302, ACM Press, Washington DC, USA.

[Smith, III(2005)] Smith, III, J.F. (2005) Evolving fuzzy decision tree structure that adapts in real-time. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1737–1744, ACM Press, Washington DC, USA.

[Sokolov & Whitley(2005)] Sokolov, A. & Whitley, D. (2005) Unbiased tournament selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1131–1138, ACM Press, Washington DC, USA.

[Sokolov *et al.*(2005)Sokolov, Whitley & Lunacek] Sokolov, A., Whitley, D. & Lunacek, M. (2005) Alternative implementations of the griewangk function. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1589–1590, ACM Press, Washington DC, USA.

[Soltoggio(2005)] Soltoggio, A. (2005) An enhanced ga to improve the search process reliability in tuning of control systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2165–2172, ACM Press, Washington DC, USA.

[Spector *et al.*(2005)Spector, Klein & Keijzer] Spector, L., Klein, J. & Keijzer, M. (2005) The push3 execution stack and the evolution of control. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1689–1696, ACM Press, Washington DC, USA.

[Spellward & Kovacs(2005)] Spellward, P. & Kovacs, T. (2005) On the contribution of gene libraries to artificial immune systems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 313–319, ACM Press, Washington DC, USA.

[Spieth *et al.*(2005)Spieth, Streichert, Speer & Zell] Spieth, C., Streichert, F., Speer, N. & Zell, A. (2005) Identifying valid solutions for the inference of regulatory networks. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 469–470, ACM Press, Washington DC, USA.

[Stanley *et al.*(2005)Stanley, Kohl, Sherony & Miikkulainen] Stanley, K., Kohl, N., Sherony, R. & Miikkulainen, R. (2005) Neuroevolution of an automobile crash warning system. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1977–1984, ACM Press, Washington DC, USA.

[Stevens *et al.*(2005a)Stevens, Das & Natarajan] Stevens, D., Das, S. & Natarajan, B. (2005a) A multi-objective algorithm for ds-cdma code design based on the clonal selection principle. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2015–2020, ACM Press, Washington DC, USA.

[Stevens *et al.*(2005b)Stevens, Heckendorn & Soule] Stevens, J., Heckendorn, R.B. & Soule, T. (2005b) Exploiting disruption aversion to control code bloat. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1605–1612, ACM Press, Washington DC, USA.

[Stibor *et al.*(2005)Stibor, Mohr, Timmis & Eckert] Stibor, T., Mohr, P., Timmis, J. & Eckert, C. (2005) Is negative selection appropriate for anomaly detection? *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 321–328, ACM Press, Washington DC, USA.

[Storch(2005)] Storch, T. (2005) On the impact of objective function transformations on evolutionary and black-box algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 833–840, ACM Press, Washington DC, USA.

[Stout & Spector(2005)] Stout, A. & Spector, L. (2005) Validation of evolutionary activity metrics for long-term evolutionary dynamics. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 137–142, ACM Press, Washington DC, USA.

[Stringer & Wu(2005)] Stringer, H. & Wu, A.S. (2005) Behavior of finite population variable length genetic algorithms under random selection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1249–1255, ACM Press, Washington DC, USA.

[Sudholt(2005)] Sudholt, D. (2005) Crossover is provably essential for the ising model on trees. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1161–1167, ACM Press, Washington DC, USA.

[Sureka & Wurman(2005)] Sureka, A. & Wurman, P.R. (2005) Applying metaheuristic techniques to search the space of bidding strategies in combinatorial auctions. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2097–2103, ACM Press, Washington DC, USA.

[Sutton *et al.*(2005)Sutton, Kagdi, Maletic & Volkert] Sutton, A., Kagdi, H., Maletic, J.I. & Volkert, L.G. (2005) Hybridizing evolutionary algorithms and clustering algorithms to find source-code clones. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1079–1080, ACM Press, Washington DC, USA.

[Szumlanski *et al.*(2005)Szumlanski, Wu & Hughes] Szumlanski, S.R., Wu, A.S. & Hughes, C.E. (2005) Collaborative interactive evolution. *GECCO 2005: Proceedings of the 2005 conference*

on Genetic and evolutionary computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2199–2200, ACM Press, Washington DC, USA.

[Talaie *et al.*(2005)Talaie, Leigh, Louis & Raines] Talaie, S., Leigh, R., Louis, S.J. & Raines, G.L. (2005) Predicting mining activity with parallel genetic algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2149–2155, ACM Press, Washington DC, USA.

[Tanev(2005)] Tanev, I. (2005) Learned mutation strategies in genetic programming for evolution and adaptation of simulated snakebot. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 687–694, ACM Press, Washington DC, USA.

[Tang *et al.*(2005)Tang, Lim, Ong & Er] Tang, J., Lim, M.H., Ong, Y.S. & Er, M.J. (2005) Solving large scale combinatorial optimization using pma-sls. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 621–628, ACM Press, Washington DC, USA.

[Tang & Jarvis(2005)] Tang, K.W. & Jarvis, R.A. (2005) From supervised ranking to evolving behaviours of a robotic team. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1325–1332, ACM Press, Washington DC, USA.

[Terashima-Marín *et al.*(2005)Terashima-Marín, Flores-Álvarez & Ross] Terashima-Marín, H., Flores-Álvarez, E.J. & Ross, P. (2005) Hyper-heuristics and classifier systems for solving 2d-regular cutting stock problems. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 637–643, ACM Press, Washington DC, USA.

[Thierens(2005)] Thierens, D. (2005) An adaptive pursuit strategy for allocating operator probabilities. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1539–1546, ACM Press, Washington DC, USA.

[Townsend *et al.*(2005)Townsend, Hazel & Smock] Townsend, G.C., Hazel, W.N. & Smock, R. (2005) Using evolutionary computation methods to support analytical models for the evolution and maintenance of conditional strategies in chthamalus anisopoma. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 409–414, ACM Press, Washington DC, USA.

[Tumer & Agogino(2005)] Tumer, K. & Agogino, A. (2005) Coordinating multi-rover systems: evaluation functions for dynamic and noisy environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly,

D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 591–598, ACM Press, Washington DC, USA.

[Uyar & Eryiğit(2005)] Uyar, S. & Eryiğit, G. (2005) Improvements to penalty-based evolutionary algorithms for the multi-dimensional knapsack problem using a gene-based adaptive mutation approach. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1257–1264, ACM Press, Washington DC, USA.

[Valsalam *et al.*(2005)Valsalam, Bednar & Miikkulainen] Valsalam, V., Bednar, J. & Miikkulainen, R. (2005) Constructing good learners using evolved pattern generators. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 11–18, ACM Press, Washington DC, USA.

[Vigraham *et al.*(2005)Vigraham, Gallagher & Boddhu] Vigraham, S.A., Gallagher, J.C. & Boddhu, S.K. (2005) Evolving analog controllers for correcting thermoacoustic instability in real hardware. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 933–940, ACM Press, Washington DC, USA.

[Vrajitoru & DeBoni(2005)] Vrajitoru, D. & DeBoni, J. (2005) Hybrid real-coded mutation for genetic algorithms applied to graph layouts. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1563–1564, ACM Press, Washington DC, USA.

[Walker & Miller(2005)] Walker, J.A. & Miller, J.F. (2005) Investigating the performance of module acquisition in cartesian genetic programming. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1649–1656, ACM Press, Washington DC, USA.

[Wang *et al.*(2005)Wang, Rahman & Wong] Wang, Z.G., Rahman, M. & Wong, Y.S. (2005) Multi-niche crowding in the development of parallel genetic simulated annealing. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1555–1556, ACM Press, Washington DC, USA.

[Wappler & Lammermann(2005)] Wappler, S. & Lammermann, F. (2005) Using evolutionary algorithms for the unit testing of object-oriented software. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1053–1060, ACM Press, Washington DC, USA.

[Watanabe & Sakakibara(2005)] Watanabe, S. & Sakakibara, K. (2005) The effectiveness of multiobjective optimizer in single-objective optimization enviroment. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly,

D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 829–830, ACM Press, Washington DC, USA.

[Wedde *et al.*(2005)Wedde, Farooq, Pannenbaecker, Vogel, Mueller, Meth & Jeruschkat] Wedde, H.F., Farooq, M., Pannenbaecker, T., Vogel, B., Mueller, C., Meth, J. & Jeruschkat, R. (2005) Beeadhoc: an energy efficient routing algorithm for mobile ad hoc networks inspired by bee behavior. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 153–160, ACM Press, Washington DC, USA.

[Whiteson *et al.*(2005)Whiteson, Stone, Stanley, Miikkulainen & Kohl] Whiteson, S., Stone, P., Stanley, K.O., Miikkulainen, R. & Kohl, N. (2005) Automatic feature selection in neuroevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1225–1232, ACM Press, Washington DC, USA.

[Whiting *et al.*(2005)Whiting, Poon & Carter] Whiting, P., Poon, P.W. & Carter, J.N. (2005) A genetic algorithm approach to the selection of near-optimal subsets from large sets. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2203–2204, ACM Press, Washington DC, USA.

[Wierstra *et al.*(2005)Wierstra, Gomez & Schmidhuber] Wierstra, D., Gomez, F.J. & Schmidhuber, J. (2005) Modeling systems with internal state using evolino. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1795–1802, ACM Press, Washington DC, USA.

[Wiese *et al.*(2005)Wiese, Hendriks, Deschênes & Youssef] Wiese, K.C., Hendriks, A., Deschênes, A. & Youssef, B.B. (2005) The impact of pseudorandom number quality on p-rnapredict, a parallel genetic algorithm for rna secondary structure prediction. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 479–480, ACM Press, Washington DC, USA.

[Wight & Zhang(2005)] Wight, J. & Zhang, Y. (2005) An "ageing"operator and its use in the highly constrained topological optimization of hvac system design. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2075–2082, ACM Press, Washington DC, USA.

[Williams & Mitchell(2005)] Williams, N. & Mitchell, M. (2005) Investigating the success of spatial coevolution. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 523–530, ACM Press, Washington DC, USA.

[Wilson & Heywood(2005)] Wilson, G. & Heywood, M. (2005) Use of a genetic algorithm in brill's transformation-based part-of-speech tagger. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2067–2073, ACM Press, Washington DC, USA.

[Wright & Pulavarty(2005)] Wright, A.H. & Pulavarty, S. (2005) On the convergence of an estimation of distribution algorithm based on linkage discovery and factorization. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 695–702, ACM Press, Washington DC, USA.

[Wu & Chung(2005)] Wu, J.Y. & Chung, Y.K. (2005) Artificial immune system for solving generalized geometric problems: a preliminary results. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 329–336, ACM Press, Washington DC, USA.

[Xu *et al.*(2005)Xu, Louis & Mancini] Xu, K., Louis, S.J. & Mancini, R.C. (2005) A scalable parallel genetic algorithm for x-ray spectroscopic analysis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 811–816, ACM Press, Washington DC, USA.

[Yanai & Iba(2005)] Yanai, K. & Iba, H. (2005) Probabilistic distribution models for eda-based gp. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1775–1776, ACM Press, Washington DC, USA.

[Yang(2005a)] Yang, S. (2005a) Memory-based immigrants for genetic algorithms in dynamic environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1115–1122, ACM Press, Washington DC, USA.

[Yang(2005b)] Yang, S. (2005b) Population-based incremental learning with memory scheme for changing environments. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 711–718, ACM Press, Washington DC, USA.

[Yilmaz & Wu(2005)] Yilmaz, A.S. & Wu, A.S. (2005) Preservation of genetic redundancy in the existence of developmental error and fitness assignment error. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1317–1324, ACM Press, Washington DC, USA.

[Yilmaz *et al.*(2005)Yilmaz, Ivanov & Levine] Yilmaz, S., Ivanov, K. & Levine, S. (2005) Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds.

H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1477–1483, ACM Press, Washington DC, USA.

[Yoon *et al.*(2005)Yoon, Kim & Moon] Yoon, Y., Kim, Y.H. & Moon, B.R. (2005) An evolutionary lagrangian method for the 0/1 multiple knapsack problem. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 629–635, ACM Press, Washington DC, USA.

[Yossi & Poli(2005)] Yossi, B. & Poli, R. (2005) Information landscapes and the analysis of search algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1287–1294, ACM Press, Washington DC, USA.

[Yu *et al.*(2005)Yu, Sastry & Goldberg] Yu, T.L., Sastry, K. & Goldberg, D.E. (2005) Linkage learning, overlapping building blocks, and systematic strategy for scalable recombination. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1217–1224, ACM Press, Washington DC, USA.

[Yuan & Gallagher(2005)] Yuan, B. & Gallagher, M. (2005) On the importance of diversity maintenance in estimation of distribution algorithms. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 719–726, ACM Press, Washington DC, USA.

[Yuan *et al.*(2005)Yuan, Gallagher & Crozier] Yuan, B., Gallagher, M. & Crozier, S. (2005) Mri magnet design: search space analysis, edas and a real-world problem with significant dependencies. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 2141–2148, ACM Press, Washington DC, USA.

[Zavala *et al.*(2005)Zavala, Aguirre & Diharce] Zavala, A.E.M., Aguirre, A.H. & Diharce, E.R.V. (2005) Constrained optimization via particle evolutionary swarm optimization algorithm (peso). *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 209–216, ACM Press, Washington DC, USA.

[Zechman & Ranjithan(2005)] Zechman, E.M. & Ranjithan, S.R. (2005) Multipopulation cooperative coevolutionary programming (mccp) to enhance design innovation. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1641–1648, ACM Press, Washington DC, USA.

[Zhan & Clark(2005)] Zhan, Y. & Clark, J.A. (2005) Search-based mutation testing for simulink models. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary*

computation (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 1061–1068, ACM Press, Washington DC, USA.

[Zhang & Jang(2005)] Zhang, B.T. & Jang, H.Y. (2005) Molecular programming: evolving genetic programs in a test tube. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1761–1768, ACM Press, Washington DC, USA.

[Zhang & Rasheed(2005)] Zhang, C. & Rasheed, K. (2005) Improving ga search reliability using maximal hyper-rectangle analysis. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1185–1192, ACM Press, Washington DC, USA.

[Zhang *et al.*(2005)Zhang, Chung & Zhong] Zhang, J., Chung, H.S.H. & Zhong, J. (2005) Adaptive crossover and mutation in genetic algorithms based on clustering technique. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 2, pp. 1577–1578, ACM Press, Washington DC, USA.

[Zhang & Rockett(2005)] Zhang, Y. & Rockett, P.I. (2005) Evolving optimal feature extraction using multi-objective genetic programming: a methodology and preliminary study on edge detection. *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation* (eds. H.G. Beyer, U.M. O'Reilly, D.V. Arnold, W. Banzhaf, C. Blum, E.W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J.A. Foster, E.D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G.R. Raidl, T. Soule, A.M. Tyrrell, J.P. Watson & E. Zitzler), vol. 1, pp. 795–802, ACM Press, Washington DC, USA.