Список литературы

[Adra et al.(2005)Adra, Griffin and Fleming] **Adra, S. F., Griffin, I. and Fleming, P. J.** (2005). Hybrid multiobjective genetic algorithm with a new adaptive local search process. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Affenzeller et al.(2005)Affenzeller, Wagner and Winkler] **Affenzeller, M., Wagner, S. and Winkler, S.** (2005). Goal-oriented preservation of essential genetic information by offspring selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Agogino et al.(2005)Agogino, Tumer and Miikkulainen] **Agogino, A., Tumer, K. and Miikkulainen, R.** (2005). Efficient credit assignment through evaluation function decomposition. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Aguilar-Ruiz and Divina(2005)] **Aguilar-Ruiz, J. S. and Divina, F.** (2005). Ga-based approach to discover meaningful biclusters. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ahn et al.(2005)Ahn, Oh and Ramakrishna] **Ahn, C. W., Oh, S. and Ramakrishna, R. S.** (2005). On the practical genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ahrens(2005)] **Ahrens, B.** (2005). Genetic algorithm optimization of superresolution parameters. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Alba et al.(2005)Alba, Alfonso and Dorronsoro] **Alba, E., Alfonso, H. and Dorronsoro, B.** (2005). Advanced models of cellular genetic algorithms evaluated on sat. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Alim and Ivanov(2005)] **Alim, F. and Ivanov, K.** (2005). Heuristic rules embedded genetic algorithm to solve in-core fuel management optimization problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule,

A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Amor and Rettinger(2005)] **Amor, H. B. and Rettinger, A.** (2005). Intelligent exploration for genetic algorithms: using self-organizing maps in evolutionary computation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ando and Kobayashi(2005)] **Ando, S. and Kobayashi, S.** (2005). Fitness-based neighbor selection for multimodal function optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ando et al.(2005)Ando, Sakuma and Kobayashi] **Ando, S., Sakuma, J. and Kobayashi, S.** (2005). Adaptive isolation model using data clustering for multimodal function optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Antolík and Hsu(2005)] **Antolík, J. and Hsu, W. H.** (2005). Evolutionary tree genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ashlock and Kim(2005)] **Ashlock, D. and Kim, E.-Y.** (2005). The impact of cellular representation on finite state agents for prisoner's dilemma. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Auger et al.(2005)Auger, Schoenauer and Teytaud] **Auger, A., Schoenauer, M. and Teytaud, O.** (2005). Local and global order $3/2$ convergence of a surrogate evolutionary algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Auwatanamongkol(2005)] **Auwatanamongkol, S.** (2005). Inexact pattern matching using genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bacardit(2005)] **Bacardit, J.** (2005). Analysis of the initialization stage of a pittsburgh approach learning classifier system. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson,

X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Barbosa and Lemonge(2005)] **Barbosa, H. J. and Lemonge, A. C.** (2005). A genetic algorithm encoding for a class of cardinality constraints. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bassett et al.(2005)Bassett, Potter and De Jong] **Bassett, J. K., Potter, M. A. and De Jong, K. A.** (2005). Applying price's equation to survival selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Becerra and Coello Coello(2005)] **Becerra, R. L. and Coello Coello, C. A.** (2005). Optimization with constraints using a cultured differential evolution approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bello et al.(2005)Bello, Nowe, Caballero, Gómez and Vrancx] **Bello, R., Nowe, A., Caballero, Y., Gómez, Y. and Vrancx, P.** (2005). A model based on ant colony system and rough set theory to feature selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Berntsson and Tang(2005a)] **Berntsson, J. and Tang, M.** (2005a). Adaptive sizing of populations and number of islands in distributed genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Berntsson and Tang(2005b)] **Berntsson, J. and Tang, M.** (2005b). Dynamic optimization of migration topology in internet-based distributed genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Besetti and Soule(2005)] **Besetti, S. and Soule, T.** (2005). Function choice, resiliency and growth in genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[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. and Zitzler, E.**, eds. (2005). *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bongard and Lipson(2005)] **Bongard, J. C. and Lipson, H.** (2005). 'managed challenge' alleviates disengagement in co-evolutionary system identification. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Borenstein and Poli(2005a)] **Borenstein, Y. and Poli, R.** (2005a). Information landscapes. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Borenstein and Poli(2005b)] **Borenstein, Y. and Poli, R.** (2005b). Information landscapes and problem hardness. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Borgulya(2005)] **Borgulya, I.** (2005). A hybrid evolutionary algorithm for the p-median problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bosman and de Jong(2005)] **Bosman, P. A. N. and de Jong, E. D.** (2005). Exploiting gradient information in numerical multi–objective evolutionary optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Brabazon et al.(2005)Brabazon, Silva, de Sousa, O'Neill, Matthews and Costa] **Brabazon, A., Silva, A., de Sousa, T. F., O'Neill, M., Matthews, R. and Costa, E.** (2005). Agent-based modelling of product invention. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bradstreet et al.(2005)Bradstreet, Barone and While] **Bradstreet, L., Barone, L. and While, L.** (2005). Map-labelling with a multi-objective evolutionary algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Branke et al.(2005)Branke, Salihoğlu and Şima Uyar] **Branke, J., Salihoğlu, E. and Şima Uyar** (2005). Towards an analysis of dynamic environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Breukelaar and Bäck(2005)] **Breukelaar, R. and Bäck, T.** (2005). Using a genetic algorithm to evolve behavior in multi dimensional cellular automata: emergence of behavior. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Briand et al.(2005)Briand, Labiche and Shousha] **Briand, L. C., Labiche, Y. and Shousha, M.** (2005). Stress testing real-time systems with genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Browne and Scott(2005)] **Browne, W. and Scott, D.** (2005). An abstraction agorithm for genetics-based reinforcement learning. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bucci and Pollack(2005)] **Bucci, A. and Pollack, J. B.** (2005). On identifying global optima in cooperative coevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Budynek et al.(2005)Budynek, Bonabeau and Shargel] **Budynek, J., Bonabeau, E. and Shargel, B.** (2005). Evolving computer intrusion scripts for vulnerability assessment and log analysis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bui et al.(2005a)Bui, Abbass and Essam] **Bui, L. T., Abbass, H. A. and Essam, D.** (2005a). Fitness inheritance for noisy evolutionary multi-objective optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

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

on Genetic and evolutionary computation, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bui and Colpan(2005)] **Bui, T. N. and Colpan, M.** (2005). Solving geometric tsp with ants. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Bui and Sundarraj(2005)] **Bui, T. N. and Sundarraj, G.** (2005). An efficient genetic algorithm for predicting protein tertiary structures in the 2d hp model. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Butz(2005)] **Butz, M. V.** (2005). Kernel-based, ellipsoidal conditions in the real-valued xcs classifier system. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Butz et al.(2005)Butz, Pelikan, Llorà and Goldberg] **Butz, M. V., Pelikan, M., Llorà, X. and Goldberg, D. E.** (2005). Extracted global structure makes local building block processing effective in xcs. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cairns et al.(2005)Cairns, Cameron and Wess] **Cairns, D. E., Cameron, G. J. and Wess, T. J.** (2005). Evolving an improved axial structure for fibrillar collagen. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Canfora et al.(2005)Canfora, Penta, Esposito and Villani] **Canfora, G., Penta, M. D., Esposito, R. and Villani, M. L.** (2005). An approach for qos-aware service composition based on genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Carter et al.(2005)Carter, Ebdon and Neal-Sturgess] **Carter, E., Ebdon, S. and Neal-Sturgess, C.** (2005). Optimization of passenger car design for the mitigation of pedestrian head injury using a genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Castillo and Villa(2005)] **Castillo, F. A. and Villa, C. M.** (2005). Symbolic regression in multicollinearity problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum,

E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cavill et al.(2005)Cavill, Smith and Tyrrell] **Cavill, R., Smith, S. and Tyrrell, A.** (2005). Multi-chromosomal genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cazangi et al.(2005)Cazangi, Von Zuben and Figueiredo] **Cazangi, R. R., Von Zuben, F. J. and Figueiredo, M. F.** (2005). Autonomous navigation system applied to collective robotics with ant-inspired communication. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Che et al.(2005)Che, Song and Rasheed] **Che, D., Song, Y. and Rasheed, K.** (2005). Mdga: motif discovery using a genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Chen et al.(2005)Chen, Ho and Goldberg] **Chen, J.-H., Ho, S.-Y. and Goldberg, D. E.** (2005). Quality-time analysis of multi-objective evolutionary algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Chen and Pitt(2005)] **Chen, S. and Pitt, G.** (2005). Isolating the benefits of respect. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cherba et al.(2005)Cherba, Punch, Duxbury, Billinge and Juhas] **Cherba, D. M., Punch, W., Duxbury, P., Billinge, S. and Juhas, P.** (2005). Conformation of an ideal bucky ball molecule by genetic algorithm and geometric constraint from pair distance data: genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Choi et al.(2005a)Choi, Jung and Kim] **Choi, S.-S., Jung, K. and Kim, J. H.** (2005a). Phase transition in a random nk landscape model. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Choi et al.(2005b)Choi, Moon and Seo] **Choi, Y.-S., Moon, B.-R. and Seo, S. Y.** (2005b). Genetic fuzzy discretization with adaptive intervals for classification problems. In H.-G.

Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cochenour et al.(2005)Cochenour, Simon, Das, Pahwa and Nag] **Cochenour, G., Simon, J., Das, S., Pahwa, A. and Nag, S.** (2005). A pareto archive evolutionary strategy based radial basis function neural network training algorithm for failure rate prediction in overhead feeders. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Collins(2005)] **Collins, M.** (2005). Finding needles in haystacks is harder with neutrality. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cong et al.(2005)Cong, Sha, Jiao and Liu] **Cong, L., Sha, Y., Jiao, L. and Liu, F.** (2005). Directional self-learning of genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Cui and Zeng(2005)] **Cui, Z. and Zeng, J.** (2005). A modified particle swarm optimization predicted by velocity. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Díaz and Romay(2005)] **Díaz, D. S. and Romay, M. G.** (2005). Introducing a watermarking with a multi-objective genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Dahal et al.(2005)Dahal, Galloway, Burt, McDonald and Hopkins] **Dahal, K. P., Galloway, S. J., Burt, G. M., McDonald, J. R. and Hopkins, I.** (2005). A case study of process facility optimization using discrete event simulation and genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Daida(2005)] **Daida, J. M.** (2005). Towards identifying populations that increase the likelihood of success in genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Daida et al.(2005)Daida, Samples and Byom] **Daida, J. M., Samples, M. E. and Byom, M. J.** (2005). Probing for limits to building block mixing with a tunably-difficult problem for genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Dam et al.(2005)Dam, Abbass and Lokan] **Dam, H. H., Abbass, H. A. and Lokan, C.** (2005). Dxcs: an xcs system for distributed data mining. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Daoud and Kharma(2005)] **Daoud, M. and Kharma, N.** (2005). Gats 1.0: a novel ga-based scheduling algorithm for task scheduling on heterogeneous processor nets. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Das et al.(2005a)Das, Konar and Chakraborty] **Das, S., Konar, A. and Chakraborty, U. K.** (2005a). An efficient evolutionary algorithm applied to the design of two-dimensional iir filters. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Das et al.(2005b)Das, Konar and Chakraborty] **Das, S., Konar, A. and Chakraborty, U. K.** (2005b). Improving particle swarm optimization with differentially perturbed velocity. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Das et al.(2005c)Das, Konar and Chakraborty] **Das, S., Konar, A. and Chakraborty, U. K.** (2005c). Two improved differential evolution schemes for faster global search. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Day et al.(2005)Day, Nunez and Lamont] **Day, R. O., Nunez, A. S. and Lamont, G. B.** (2005). Moea design of robust digital symbol sets. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[de França et al.(2005)de França, Von Zuben and de Castro] **de França, F. O., Von Zuben, F. J. and de Castro, L. N.** (2005). An artificial immune network for multimodal function optimization on dynamic environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D.

de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[de Jong(2005)] **de Jong, E.** (2005). The maxsolve algorithm for coevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[de Jong et al.(2005)de Jong, Watson and Thierens] **de Jong, E. D., Watson, R. A. and Thierens, D.** (2005). On the complexity of hierarchical problem solving. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[de Silva and Suzuki(2005)] **de Silva, U. C. and Suzuki, J.** (2005). On the stationary distribution of gas with fixed crossover probability. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Defaweux et al.(2005)Defaweux, Lenaerts, van Hemert and Parent] **Defaweux, A., Lenaerts, T., van Hemert, J. and Parent, J.** (2005). Transition models as an incremental approach for problem solving in evolutionary algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Dempsey et al.(2005)Dempsey, O'Neill and Brabazon] **Dempsey, I., O'Neill, M. and Brabazon, A.** (2005). Meta-grammar constant creation with grammatical evolution by grammatical evolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Derderian et al.(2005)Derderian, Hierons, Harman and Guo] **Derderian, K., Hierons, R. M., Harman, M. and Guo, Q.** (2005). Generating feasible input sequences for extended finite state machines (efsms) using genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Diaz-Gomez and Hougen(2005)] **Diaz-Gomez, P. A. and Hougen, D. F.** (2005). Analysis and mathematical justification of a fitness function used in an intrusion detection system. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ding and Yu(2005)] **Ding, L. and Yu, J.** (2005). Some theoretical results about the computation time of evolutionary algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf,

C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Downing(2005)] **Downing, K. L.** (2005). The predictive basis of situated and embodied artificial intelligence. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Droste(2005)] **Droste, S.** (2005). Not all linear functions are equally difficult for the compact genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Drugowitsch and Barry(2005)] **Drugowitsch, J. and Barry, A. M.** (2005). Xcs with eligibility traces. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Duarte et al.(2005)Duarte, Ángel Sánchez, Fernández and Cabido] **Duarte, A., Ángel Sánchez, Fernández, F. and Cabido, R.** (2005). A low-level hybridization between memetic algorithm and vns for the max-cut problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Duong and Grefenstette(2005)] **Duong, D. V. and Grefenstette, J.** (2005). The emulation of social institutions as a method of coevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ecemis et al.(2005)Ecemis, Bonabeau and Ashburn] **Ecemis, I., Bonabeau, E. and Ashburn, T.** (2005). Interactive estimation of agent-based financial markets models: modularity and learning. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Eiben et al.(2005)Eiben, Schut and Toma] **Eiben, A. E., Schut, M. C. and Toma, T.** (2005). Comparing multicast and newscast communication in evolving agent societies. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[El-Abd and Kamel(2005)] **El-Abd, M. and Kamel, M.** (2005). Factors governing the behavior of multiple cooperating swarms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf,

C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Fenton and Walsh(2005)] **Fenton, P. and Walsh, P.** (2005). A comparison of messy ga and permutation based ga for job shop scheduling. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ferreira et al.(2005)Ferreira, Vasconcelos and Adeodato] **Ferreira, T. A. E., Vasconcelos, G. C. and Adeodato, P. J. L.** (2005). A new evolutionary method for time series forecasting. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ferretti and Esquivel(2005)] **Ferretti, E. and Esquivel, S.** (2005). Knowledge insertion: an efficient approach to reduce effort in simple genetic algorithms for unrestricted parallel equal machines scheduling. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ficici(2005)] **Ficici, S. G.** (2005). Monotonic solution concepts in coevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Firpi et al.(2005)Firpi, Goodman and Echauz] **Firpi, H., Goodman, E. and Echauz, J.** (2005). Epileptic seizure detection by means of genetically programmed artificial features. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Fleischer(2005)] **Fleischer, M.** (2005). Scale invariant pareto optimality: a meta–formalism for characterizing and modeling cooperativity in evolutionary systems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Foong et al.(2005)Foong, Maier and Simpson] **Foong, W. K., Maier, H. R. and Simpson, A. R.** (2005). Ant colony optimization for power plant maintenance scheduling optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Foreman and Evett(2005)] **Foreman, N. and Evett, M.** (2005). Preventing overfitting in gp with canary functions. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Funes and Pujals(2005)] **Funes, P. and Pujals, E.** (2005). Intransitivity revisited coevolutionary dynamics of numbers games. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Galeano et al.(2005)Galeano, Veloza-Suan and González] **Galeano, J. C., Veloza-Suan, A. and González, F. A.** (2005). A comparative analysis of artificial immune network models. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Garibay et al.(2005)Garibay, Wu and Garibay] **Garibay, I., Wu, A. S. and Garibay, O.** (2005). On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Garrett et al.(2005)Garrett, Vannucci, Silva, Dasgupta and Simien] **Garrett, D., Vannucci, J., Silva, R., Dasgupta, D. and Simien, J.** (2005). Genetic algorithms for the sailor assignment problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Geem et al.(2005)Geem, Lee and Tseng] **Geem, Z. W., Lee, K. S. and Tseng, C.-L.** (2005). Harmony search for structural design. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gelly et al.(2005)Gelly, Teytaud, Bredeche and Schoenauer] **Gelly, S., Teytaud, O., Bredeche, N. and Schoenauer, M.** (2005). A statistical learning theory approach of bloat. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Giacobini et al.(2005)Giacobini, Tomassini and Tettamanzi] **Giacobini, M., Tomassini, M. and Tettamanzi, A.** (2005). Takeover time curves in random and small-world structured populations. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Girádez and Aguilar-Ruiz(2005)] **Girádez, R. and Aguilar-Ruiz, J. S.** (2005). Feature influence for evolutionary learning. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gomez and Schmidhuber(2005)] **Gomez, F. J. and Schmidhuber, J.** (2005). Co-evolving recurrent neurons learn deep memory pomdps. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gong et al.(2005a)Gong, Jiao, Du, Shang and Lu] **Gong, M., Jiao, L., Du, H., Shang, R. and Lu, B.** (2005a). Performance assessment of an artificial immune system multiobjective optimizer by two improved metrics. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gong et al.(2005b)Gong, Wang, Jiao and Du] **Gong, M., Wang, L., Jiao, L. and Du, H.** (2005b). An artificial immune system algorithm for cdma multiuser detection over multi-path channels. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gong et al.(2005c)Gong, Nakamura and Tamaki] **Gong, Y., Nakamura, M. and Tamaki, S.** (2005c). Parallel genetic algorithms on line topology of heterogeneous computing resources. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[González et al.(2005)González, Galeano, Rojas and Veloza-Suan] **González, F. A., Galeano, J. C., Rojas, D. A. and Veloza-Suan, A.** (2005). Discriminating and visualizing anomalies using negative selection and self-organizing maps. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gordon and Bentley(2005)] **Gordon, T. G. W. and Bentley, P. J.** (2005). Bias and scalability in evolutionary development. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Graham et al.(2005)Graham, Masum and Oppacher] **Graham, L., Masum, H. and Oppacher, F.** (2005). Statistical analysis of heuristics for evolving sorting networks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl,

T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Grasemann and Miikkulainen(2005)] **Grasemann, U. and Miikkulainen, R.** (2005). Effective image compression using evolved wavelets. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Greene(2005)] **Greene, W. A.** (2005). Schema disruption in tree-structured chromosomes. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Grosso et al.(2005)Grosso, Antoniol, Penta, Galinier and Merlo] **Grosso, C. D., Antoniol, G., Penta, M. D., Galinier, P. and Merlo, E.** (2005). Improving network applications security: a new heuristic to generate stress testing data. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Gunia(2005)] **Gunia, C.** (2005). On the analysis of the approximation capability of simple evolutionary algorithms for scheduling problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Guo et al.(2005)Guo, Han and Tay] **Guo, Z., Han, H. K. and Tay, J. C.** (2005). Sufficiency verification of hiv-1 pathogenesis based on multi-agent simulation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Guofang et al.(2005)Guofang, Minqiang and Jisong] **Guofang, N., Minqiang, L. and Jisong, K.** (2005). Multi-level genetic algorithm (mlga) for the construction of clock binary tree. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[H.(2005)] **H., J. A. M.** (2005). Search space modulation in genetic algorithms: evolving the search space by sinusoidal transformations. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Haas et al.(2005)Haas, Peysakhov and Mancoridis] **Haas, J., Peysakhov, M. and Mancoridis, S.** (2005). Ga-based parameter tuning for multi-agent systems. In H.-G. Beyer, U.-M. O'Reilly,

D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Han and Bhanu(2005)] **Han, J. and Bhanu, B.** (2005). Hierarchical multi-sensor image registration using evolutionary computation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hang and Dai(2005)] **Hang, X. and Dai, H.** (2005). Applying both positive and negative selection to supervised learning for anomaly detection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Harman et al.(2005)Harman, Swift and Mahdavi] **Harman, M., Swift, S. and Mahdavi, K.** (2005). An empirical study of the robustness of two module clustering fitness functions. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hartmann(2005)] **Hartmann, V.** (2005). Evolving agent swarms for clustering and sorting. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hasenjäger et al.(2005)Hasenjäger, Sendhoff, Sonoda and Arima] **Hasenjäger, M., Sendhoff, B., Sonoda, T. and Arima, T.** (2005). Three dimensional evolutionary aerodynamic design optimization with cma-es. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hernandez et al.(2005)Hernandez, Wilder, Nino and Garcia] **Hernandez, G., Wilder, K., Nino, F. and Garcia, J.** (2005). Towards a self-stopping evolutionary algorithm using coupling from the past. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hijazi et al.(2005)Hijazi, Natarajan and Das] **Hijazi, S. L., Natarajan, B. and Das, S.** (2005). An ant colony algorithm for multi-user detection in wireless communication systems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hiroyasu et al.(2005)Hiroyasu, Miki, Nakayama and Hanada] **Hiroyasu, T., Miki, M., Nakayama, S. and Hanada, Y.** (2005). Multi-objective optimization of diesel engine emissions and fuel economy using spea2+. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ho and Shimizu(2005)] **Ho, P. Y. and Shimizu, K.** (2005). Simple addition of ranking method for constrained optimization in evolutionary algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hohm and Hoffmann(2005)] **Hohm, T. and Hoffmann, D.** (2005). A multi-objective evolutionary approach to peptide structure redesign and stabilization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hong et al.(2005)Hong, Ren and Zeng] **Hong, Y., Ren, Q. and Zeng, J.** (2005). Genetic drift in univariate marginal distribution algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Horn(2005)] **Horn, J.** (2005). Shape nesting by coevolving species. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hornby(2005)] **Hornby, G. S.** (2005). Measuring, enabling and comparing modularity, regularity and hierarchy in evolutionary design. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[hsiung Chan et al.(2005)hsiung Chan, Lee, Kao and Tsai] **hsiung Chan, C., Lee, S.-A., Kao, C.-Y. and Tsai, H.-K.** (2005). Improving eax with restricted 2-opt. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

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

on Genetic and evolutionary computation, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[hua Yang et al.(2005)hua Yang, cheng Fang and qiang Qi] **hua Yang, Z., cheng Fang, J. and qiang Qi, Z.** (2005). Flight midcourse guidance control based on genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Huang et al.(2005)Huang, Bieniawski, Wolpert and Strauss] **Huang, C.-F., Bieniawski, S., Wolpert, D. H. and Strauss, C. E. M.** (2005). A comparative study of probability collectives based multi-agent systems and genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Huang and Rocha(2005)] **Huang, C.-F. and Rocha, L. M.** (2005). Tracking extrema in dynamic environments using a coevolutionary agent-based model of genotype edition. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Hunt et al.(2005)Hunt, Hornby and Lohn] **Hunt, R., Hornby, G. S. and Lohn, J. D.** (2005). Toward evolved flight. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Iglesias et al.(2005)Iglesias, Naudts, Verschoren and Vidal] **Iglesias, M. T., Naudts, B., Verschoren, A. and Vidal, C.** (2005). Walsh transforms, balanced sum theorems and partition coefficients over multary alphabets. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ishibuchi and Narukawa(2005)] **Ishibuchi, H. and Narukawa, K.** (2005). Comparison of evolutionary multiobjective optimization with rference solution-based single-objective approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ishibuchi et al.(2005)Ishibuchi, Narukawa and Nojima] **Ishibuchi, H., Narukawa, K. and Nojima, Y.** (2005). An empirical study on the handling of overlapping solutions in evolutionary multiobjective optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Jägersküpper and Witt(2005)] **Jägersküpper, J. and Witt, C.** (2005). Rigorous runtime analysis of a (μ+1)es for the sphere function. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Jackson(2005a)] **Jackson, D.** (2005a). Dormant program nodes and the efficiency of genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Jackson(2005b)] **Jackson, D.** (2005b). Parsing and translation of expressions by genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Janikow and Mann(2005)] **Janikow, C. Z. and Mann, C. J.** (2005). Cgp visits the santa fe trail: effects of heuristics on gp. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Jansen and Schellbach(2005)] **Jansen, T. and Schellbach, U.** (2005). Theoretical analysis of a mutation-based evolutionary algorithm for a tracking problem in the lattice. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ji and Dasgupta(2005)] **Ji, Z. and Dasgupta, D.** (2005). Estimating the detector coverage in a negative selection algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Jin et al.(2005)Jin, Kao, Huang, Hsu, Lee and Lee] **Jin, M.-H., Kao, C.-Y., Huang, Y.-C., Hsu, D. F., Lee, R.-G. and Lee, C.-K.** (2005). Compact genetic algorithm for active interval scheduling in hierarchical sensor networks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Julstrom(2005a)] **Julstrom, B. A.** (2005a). The blob code is competitive with edge-sets in genetic algorithms for the minimum routing cost spanning tree problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Julstrom(2005b)] **Julstrom, B. A.** (2005b). Greedy, genetic, and greedy genetic algorithms for the quadratic knapsack problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kavka et al.(2005)Kavka, Roggero and Schoenauer] **Kavka, C., Roggero, P. and Schoenauer, M.** (2005). Evolution of voronoi based fuzzy recurrent controllers. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Keijzer et al.(2005)Keijzer, Baptist, Babovic and Uthurburu] **Keijzer, M., Baptist, M., Babovic, V. and Uthurburu, J. R.** (2005). Determining equations for vegetation induced resistance using genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kennedy(2005)] **Kennedy, J.** (2005). Dynamic-probabilistic particle swarms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Keymeulen et al.(2005)Keymeulen, Fink, Ferguson, Peay, Oks, Terrile and Yee] **Keymeulen, D., Fink, W., Ferguson, M. I., Peay, C., Oks, B., Terrile, R. and Yee, K.** (2005). Evolutionary computation applied to the tuning of mems gyroscopes. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kicinger et al.(2005)Kicinger, Arciszewski and De Jong] **Kicinger, R., Arciszewski, T. and De Jong, K.** (2005). Parameterized versus generative representations in structural design: an empirical comparison. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kim et al.(2005)Kim, Choi and Moon] **Kim, J.-H., Choi, S.-S. and Moon, B.-R.** (2005). Normalization for neural network in genetic search. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kim and Moon(2005)] **Kim, Y.-H. and Moon, B.-R.** (2005). New topologies for genetic search space. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler,

eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kimura and Matsumura(2005)] **Kimura, S. and Matsumura, K.** (2005). Genetic algorithms using low-discrepancy sequences. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Knidel et al.(2005)Knidel, de Castro and Von Zuben] **Knidel, H., de Castro, L. N. and Von Zuben, F. J.** (2005). Rabnet: a real-valued antibody network for data clustering. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Koduru et al.(2005)Koduru, Das, Welch, Roe and Lopez-Dee] **Koduru, P., Das, S., Welch, S., Roe, J. L. and Lopez-Dee, Z. P.** (2005). A co-evolutionary hybrid algorithm for multi-objective optimization of gene regulatory network models. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Konak and Smith(2005)] **Konak, A. and Smith, A. E.** (2005). Designing resilient networks using a hybrid genetic algorithm approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Koza et al.(2005)Koza, Al-Sakran and Jones] **Koza, J. R., Al-Sakran, S. H. and Jones, L. W.** (2005). Automated re-invention of six patented optical lens systems using genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kramer et al.(2005)Kramer, Ting and Büning] **Kramer, O., Ting, C.-K. and Büning, H. K.** (2005). A mutation operator for evolution strategies to handle constrained problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kurz and Canterbury(2005)] **Kurz, M. E. and Canterbury, S.** (2005). Minimizing total flowtime and maximum earliness on a single machine using multiple measures of fitness. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kwon et al.(2005)Kwon, Choi and Moon] **Kwon, Y.-K., Choi, S.-S. and Moon, B.-R.** (2005). Stock prediction based on financial correlation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold,

W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Kwon and Moon(2005)] **Kwon, Y.-K. and Moon, B.-R.** (2005). Nonlinear feature extraction using a neuro genetic hybrid. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lameijer et al.(2005)Lameijer, IJzerman and Kok] **Lameijer, E.-W., IJzerman, A. and Kok, J.** (2005). The molecule evoluator: an interactive evolutionary algorithm for designing drug molecules. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lammermann and Wappler(2005)] **Lammermann, F. and Wappler, S.** (2005). Benefits of software measures for evolutionary white-box testing. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Landau et al.(2005)Landau, Sigaud and Schoenauer] **Landau, S., Sigaud, O. and Schoenauer, M.** (2005). Atnosferes revisited. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lanzi et al.(2005a)Lanzi, Loiacono, Wilson and Goldberg] **Lanzi, P. L., Loiacono, D., Wilson, S. W. and Goldberg, D. E.** (2005a). Extending xcsf beyond linear approximation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lanzi et al.(2005b)Lanzi, Loiacono, Wilson and Goldberg] **Lanzi, P. L., Loiacono, D., Wilson, S. W. and Goldberg, D. E.** (2005b). Xcs with computed prediction in multistep environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lasarczyk and Banzhaf(2005)] **Lasarczyk, C. W. G. and Banzhaf, W.** (2005). Total synthesis of algorithmic chemistries. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Leó n-Barranco et al.(2005)Leó n-Barranco, Barajas and Reyes] **Leó n-Barranco, A., Barajas, S. E. and Reyes, C. A.** (2005). Argen + arepo: mixing the

artificial genetic engineering and artificial evolution of populations to improve the search process. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lee and Bulitko(2005)] **Lee, G. and Bulitko, V.** (2005). Gamm: genetic algorithms with meta-models for vision. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Legg and Hutter(2005)] **Legg, S. and Hutter, M.** (2005). Fitness uniform deletion: a simple way to preserve diversity. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lehmann and Kaufmann(2005)] **Lehmann, K. A. and Kaufmann, M.** (2005). Evolutionary algorithms for the self-organized evolution of networks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Li et al.(2005)Li, Azarm and Aute] **Li, M., Azarm, S. and Aute, V.** (2005). A multi-objective genetic algorithm for robust design optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Li(2005)] **Li, X.** (2005). Efficient differential evolution using speciation for multimodal function optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Liang et al.(2005)Liang, Lee and Wu] **Liang, H.-L., Lee, C. and Wu, J.-S.** (2005). Multiplex pcr primer design for gene family using genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lim and Sim(2005)] **Lim, C. and Sim, E.** (2005). Production planning in manufacturing/remanufacturing environment using genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lima et al.(2005)Lima, Sastry, Goldberg and Lobo] **Lima, C. F., Sastry, K., Goldberg, D. E. and Lobo, F. G.** (2005). Combining competent crossover and mutation operators: a probabilistic model building approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lin et al.(2005)Lin, Huang, Huang and Horng] **Lin, F.-M., Huang, H.-D., Huang, H.-Y. and Horng, J.-T.** (2005). Primer design for multiplex pcr using a genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Liu et al.(2005)Liu, Chen, Chen, Hwang and Ho] **Liu, B.-F., Chen, H.-M., Chen, J.-H., Hwang, S.-F. and Ho, S.-Y.** (2005). Meswarm: memetic particle swarm optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Liu and Lampinen(2005)] **Liu, J. and Lampinen, J.** (2005). A differential evolution based incremental training method for rbf networks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Llorà et al.(2005a)Llorà, Sastry and Goldberg] **Llorà, X., Sastry, K. and Goldberg, D. E.** (2005a). The compact classifier system: motivation, analysis, and first results. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Llorà et al.(2005b)Llorà, Sastry, Goldberg, Gupta and Lakshmi] **Llorà, X., Sastry, K., Goldberg, D. E., Gupta, A. and Lakshmi, L.** (2005b). Combating user fatigue in igas: partial ordering, support vector machines, and synthetic fitness. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Looks et al.(2005)Looks, Goertzel and Pennachin] **Looks, M., Goertzel, B. and Pennachin, C.** (2005). Learning computer programs with the bayesian optimization algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Luke(2005)] **Luke, S.** (2005). Evolutionary computation and the c-value paradox. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl,

T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lunacek et al.(2005)Lunacek, Whitley and Knight] **Lunacek, M., Whitley, D. and Knight, J. N.** (2005). Measuring mobility and the performance of global search algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Luo et al.(2005)Luo, Heywood and Zincir-Heywood] **Luo, X., Heywood, M. I. and Zincir-Heywood, A. N.** (2005). Evolving recurrent models using linear gp. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Lyman and Lewandowski(2005)] **Lyman, M. and Lewandowski, G.** (2005). Genetic programming for association rules on card sorting data. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Majeed et al.(2005)Majeed, Ryan and Azad] **Majeed, H., Ryan, C. and Azad, R. M. A.** (2005). Evaluating gp schema in context. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Martin(2005)] **Martin, J. G.** (2005). Subproblem optimization by gene correlation with singular value decomposition. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Massey et al.(2005)Massey, Clark and Stepney] **Massey, P., Clark, J. A. and Stepney, S.** (2005). Evolution of a human-competitive quantum fourier transform algorithm using genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Matos et al.(2005)Matos, Suzuki and Arita] **Matos, A., Suzuki, R. and Arita, T.** (2005). Evolutionary models for maternal effects in simulated developmental systems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[McLoughlin, III and Cedeño(2005)] **McLoughlin, III, J. F. and Cedeño, W.** (2005). The enhanced evolutionary tabu search and its application to the quadratic assignment

problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[McMinn and Holcombe(2005)] **McMinn, P. and Holcombe, M.** (2005). Evolutionary testing of state-based programs. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[McPartland et al.(2005)McPartland, Nolfi and Abbass] **McPartland, M., Nolfi, S. and Abbass, H. A.** (2005). Emergence of communication in competitive multi-agent systems: a pareto multi-objective approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[McPhee and Crane(2005)] **McPhee, N. F. and Crane, E. F.** (2005). A theoretical analysis of the hiff problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Meekhof and Heckendorn(2005)] **Meekhof, T. and Heckendorn, R. B.** (2005). Using evolutionary optimization to improve markov-based classification with limited training data. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Mellor(2005)] **Mellor, D.** (2005). A first order logic classifier system. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Mezura-Montes et al.(2005)Mezura-Montes, Velázquez-Reyes and Coello Coello] **Mezura-Montes, E., Velázquez-Reyes, J. and Coello Coello, C. A.** (2005). Promising infeasibility and multiple offspring incorporated to differential evolution for constrained optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Mierswa(2005)] **Mierswa, I.** (2005). Incorporating fuzzy knowledge into fitness: multiobjective evolutionary 3d design of process plants. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Monson and Seppi(2005a)] **Monson, C. K. and Seppi, K. D.** (2005a). Bayesian optimization models for particle swarms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Monson and Seppi(2005b)] **Monson, C. K. and Seppi, K. D.** (2005b). Exposing origin-seeking bias in pso. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Montana and Redi(2005)] **Montana, D. and Redi, J.** (2005). Optimizing parameters of a mobile ad hoc network protocol with a genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Moore(2005)] **Moore, F. W.** (2005). A genetic algorithm for optimized reconstruction of quantized one-dimensional signals. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Mori et al.(2005)Mori, Takeda and Matsumoto] **Mori, N., Takeda, M. and Matsumoto, K.** (2005). A comparison study between genetic algorithms and bayesian optimize algorithms by novel indices. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Murata and Nakamura(2005)] **Murata, T. and Nakamura, T.** (2005). Genetic network programming with automatically defined groups for assigning proper roles to multiple agents. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Murata and Yamaguchi(2005)] **Murata, T. and Yamaguchi, M.** (2005). Neighboring crossover to improve ga-based q-learning method for multi-legged robot control. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Nashvili et al.(2005)Nashvili, Olhofer and Sendhoff] **Nashvili, M., Olhofer, M. and Sendhoff, B.** (2005). Morphing methods in evolutionary design optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Nassu et al.(2005)Nassu, Duarte, Jr. and Pozo] **Nassu, B. T., Duarte, Jr., E. P. and Pozo, A. T. R.** (2005). A comparison of evolutionary algorithms for system-level diagnosis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Neumann and Wegener(2005)] **Neumann, F. and Wegener, I.** (2005). Minimum spanning trees made easier via multi-objective optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Noman and Iba(2005a)] **Noman, N. and Iba, H.** (2005a). Enhancing differential evolution performance with local search for high dimensional function optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Noman and Iba(2005b)] **Noman, N. and Iba, H.** (2005b). Inference of gene regulatory networks using s-system and differential evolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Nummela and Julstrom(2005)] **Nummela, J. and Julstrom, B. A.** (2005). Evolving petri nets to represent metabolic pathways. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Nunn and White(2005)] **Nunn, I. and White, T.** (2005). The application of antigenic search techniques to time series forecasting. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ohnishi and Yoshida(2005)] **Ohnishi, K. and Yoshida, K.** (2005). Evolutionary change in developmental timing. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ondas et al.(2005)Ondas, Pelikan and Sastry] **Ondas, R., Pelikan, M. and Sastry, K.** (2005). Scalability of genetic programming and probabilistic incremental program evolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ong et al.(2005)Ong, Saunders, Keyser and Leggett] **Ong, T. J., Saunders, R., Keyser, J. and Leggett, J. J.** (2005). Terrain generation using genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Pakhira and De(2005)] **Pakhira, M. K. and De, R. K.** (2005). A hardware pipeline for function optimization using genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Pardoe et al.(2005)Pardoe, Ryoo and Miikkulainen] **Pardoe, D., Ryoo, M. and Miikkulainen, R.** (2005). Evolving neural network ensembles for control problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Parker and Georgescu(2005)] **Parker, G. and Georgescu, R.** (2005). Evolution of multi-loop controllers for fixed morphology with a cyclic genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Paszynska(2005)] **Paszynska, A.** (2005). An extension of vose's markov chain model for genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Paul et al.(2005)Paul, Lipson and Cuevas] **Paul, C., Lipson, H. and Cuevas, F. J. V.** (2005). Evolutionary form-finding of tensegrity structures. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Paul and Iba(2005)] **Paul, T. K. and Iba, H.** (2005). Extraction of informative genes from microarray data. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Payne and Eppstein(2005)] **Payne, J. L. and Eppstein, M. J.** (2005). A hybrid genetic algorithm with pattern search for finding heavy atoms in protein crystals. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Peña et al.(2005)Peña, Rionda and Aguirre] **Peña, S. I. V., Rionda, S. B. and Aguirre, A. H.** (2005). Multiobjective shape optimization with constraints based on estimation distribution algorithms and correlated information. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Pelikan et al.(2005)Pelikan, Sastry and Goldberg] **Pelikan, M., Sastry, K. and Goldberg, D. E.** (2005). Multiobjective hboa, clustering, and scalability. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Perelman and Ostfeld(2005)] **Perelman, L. and Ostfeld, A.** (2005). Water distribution systems optimal design using cross entropy. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Peterson et al.(2005)Peterson, Doom and Raymer] **Peterson, M. R., Doom, T. E. and Raymer, M. L.** (2005). Ga-facilitated classifier optimization with varying similarity measures. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Pham(2005)] **Pham, Q. T.** (2005). Evolutionary optimization of dynamic control problems accelerated by progressive step reduction. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Phienthrakul and Kijsirikul(2005)] **Phienthrakul, T. and Kijsirikul, B.** (2005). Evolutionary strategies for multi-scale radial basis function kernels in support vector machines. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Philemotte and Bersini(2005)] **Philemotte, C. and Bersini, H.** (2005). Intrinsic emergence boosts adaptive capacity. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Pillay(2005)] **Pillay, N.** (2005). An investigation into using genetic programming as a means of inducing solutions to novice procedural programming problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule,

A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Poladian(2005)] **Poladian, L.** (2005). A ga for maximum likelihood phylogenetic inference using neighbour-joining as a genotype to phenotype mapping. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Poli et al.(2005)Poli, Di Chio and Langdon] **Poli, R., Di Chio, C. and Langdon, W. B.** (2005). Exploring extended particle swarms: a genetic programming approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Poli and Langdon(2005)] **Poli, R. and Langdon, W. B.** (2005). Backward-chaining genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Popovici and De Jong(2005)] **Popovici, E. and De Jong, K.** (2005). Understanding cooperative co-evolutionary dynamics via simple fitness landscapes. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Preuss et al.(2005)Preuss, Schönemann and Emmerich] **Preuss, M., Schönemann, L. and Emmerich, M.** (2005). Counteracting genetic drift and disruptive recombination in (μpluskommaλ)-ea on multimodal fitness landscapes. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Prodan et al.(2005)Prodan, Udrescu and Vladutiu] **Prodan, L., Udrescu, M. and Vladutiu, M.** (2005). Multiple-level concatenated coding in embryonics: a dependability analysis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Quintana et al.(2005)Quintana, Luque and Isasi] **Quintana, D., Luque, C. and Isasi, P.** (2005). Evolutionary rule-based system for ipo underpricing prediction. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Rand and Riolo(2005)] **Rand, W. and Riolo, R.** (2005). The problem with a self-adaptative mutation rate in some environments: a case study using the shaky ladder hyperplane-defined functions. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Raquel and Naval, Jr.(2005)] **Raquel, C. R. and Naval, Jr., P. C.** (2005). An effective use of crowding distance in multiobjective particle swarm optimization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ravichandran et al.(2005)Ravichandran, Gandhe and Smith] **Ravichandran, B., Gandhe, A. and Smith, R. E.** (2005). Xcs for robust automatic target recognition. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Reis et al.(2005)Reis, Machado and Cunha] **Reis, C., Machado, J. A. T. and Cunha, J. B.** (2005). Fractional dynamic fitness functions for ga-based circuit design. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ressom et al.(2005)Ressom, Varghese, Saha, Orvisky, Goldman, Petricoin, Conrads, Veenstra, Abdel-Hamid, Loffredo an **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. and Goldman, R.** (2005). Particle swarm optimization for analysis of mass spectral serum profiles. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Richards et al.(2005)Richards, Whitley, Beveridge, Mytkowicz, Nguyen and Rome] **Richards, M. D., Whitley, D., Beveridge, J. R., Mytkowicz, T., Nguyen, D. and Rome, D.** (2005). Evolving cooperative strategies for uav teams. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Richter et al.(2005)Richter, Paxton and Wright] **Richter, J. N., Paxton, J. and Wright, A.** (2005). Ea models and population fixed-points versus mutation rates for functions of unitation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Ridder and HandUber(2005)] **Ridder, J. P. and HandUber, J. C.** (2005). Mission planning for joint suppression of enemy air defenses using a genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Rieffel and Pollack(2005)] **Rieffel, J. and Pollack, J.** (2005). Automated assembly as situated development: using artificial ontogenies to evolve buildable 3-d objects. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Rothlauf et al.(2005)Rothlauf, Schunk and Pfeiffer] **Rothlauf, F., Schunk, D. and Pfeiffer, J.** (2005). Classification of human decision behavior: finding modular decision rules with genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Russell and Lamont(2005)] **Russell, M. A. and Lamont, G. B.** (2005). A genetic algorithm for unmanned aerial vehicle routing. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sait et al.(2005a)Sait, Faheemuddin, Minhas and Sanaullah] **Sait, S. M., Faheemuddin, M., Minhas, M. R. and Sanaullah, S.** (2005a). Multiobjective vlsi cell placement using distributed genetic algorithm. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sait et al.(2005b)Sait, Sanaullah, Zaidi and Ali] **Sait, S. M., Sanaullah, S., Zaidi, A. M. and Ali, M. I.** (2005b). Comparative evaluation of parallelization strategies for evolutionary and stochastic heuristics. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sakuma and Kobayashi(2005a)] **Sakuma, J. and Kobayashi, S.** (2005a). Latent variable crossover for k-tablet structures and its application to lens design problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sakuma and Kobayashi(2005b)] **Sakuma, J. and Kobayashi, S.** (2005b). Real-coded crossover as a role of kernel density estimation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P.

Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Samples et al.(2005)Samples, Daida, Byom and Pizzimenti] **Samples, M. E., Daida, J. M., Byom, M. and Pizzimenti, M.** (2005). Parameter sweeps for exploring gp parameters. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Samsonovich and De Jong(2005)] **Samsonovich, A. V. and De Jong, K. A.** (2005). Pricing the 'free lunch' of meta-evolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sanchez et al.(2005)Sanchez, Schillaci, Reorda, Squillero, Sterpone and Violante] **Sanchez, E., Schillaci, M., Reorda, M. S., Squillero, G., Sterpone, L. and Violante, M.** (2005). New evolutionary techniques for test-program generation for complex microprocessor cores. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sastry et al.(2005)Sastry, Abbass, Goldberg and Johnson] **Sastry, K., Abbass, H. A., Goldberg, D. E. and Johnson, D. D.** (2005). Sub-structural niching in estimation of distribution algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sato and Kanno(2005)] **Sato, Y. and Kanno, R.** (2005). Event-driven learning classifier systems for online soccer games. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schönemann(2005)] **Schönemann, L.** (2005). Optimal number of evolution strategies mutation step sizes in dynamic environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Scheutz and Schermerhorn(2005)] **Scheutz, M. and Schermerhorn, P.** (2005). Predicting population dynamics and evolutionary trajectories based on performance evaluations in alife simulations. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schlessinger et al.(2005)Schlessinger, Bentley and Lotto] **Schlessinger, E., Bentley, P. J. and Lotto, R. B.** (2005). Evolving visually guided agents in an ambiguous virtual world. In

H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schlichter et al.(2005)Schlichter, Haubelt and Teich] **Schlichter, T., Haubelt, C. and Teich, J.** (2005). Improving ea-based design space exploration by utilizing symbolic feasibility tests. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schmickl et al.(2005)Schmickl, Thenius and Crailsheim] **Schmickl, T., Thenius, R. and Crailsheim, K.** (2005). Simulating swarm intelligence in honey bees: foraging in differently fluctuating environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schmitt(2005)] **Schmitt, K.** (2005). Using gene deletion and gene duplication in evolution strategies. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schmitt et al.(2005)Schmitt, Mehnen and Michelitsch] **Schmitt, K., Mehnen, J. and Michelitsch, T.** (2005). Using predators and preys in evolution strategies. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Schonfeld and Ashlock(2005)] **Schonfeld, J. and Ashlock, D.** (2005). A study of evolutionary robustness in stochastically tiled polyominos. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Seehuus et al.(2005)Seehuus, Tveit and Edsberg] **Seehuus, R., Tveit, A. and Edsberg, O.** (2005). Discovering biological motifs with genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Seeluangsawat and Chongstitvatana(2005)] **Seeluangsawat, P. and Chongstitvatana, P.** (2005). A multiple objective evolutionary algorithm for multiple sequence alignment. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Seng et al.(2005)Seng, Bauer, Biehl and Pache] **Seng, O., Bauer, M., Biehl, M. and Pache, G.** (2005). Search-based improvement of subsystem decompositions. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Seo and Moon(2005)] **Seo, D.-I. and Moon, B.-R.** (2005). Computing the epistasis variance of large-scale traveling salesman problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Seo et al.(2005)Seo, Goodman and Rosenberg] **Seo, K., Goodman, E. D. and Rosenberg, R. C.** (2005). Design of air pump system using bond graph and genetic programming method. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Settles et al.(2005)Settles, Nathan and Soule] **Settles, M., Nathan, P. and Soule, T.** (2005). Breeding swarms: a new approach to recurrent neural network training. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Settles and Soule(2005)] **Settles, M. and Soule, T.** (2005). Breeding swarms: a ga/pso hybrid. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Shafti and Pérez(2005)] **Shafti, L. S. and Pérez, E. P.** (2005). Constructive induction and genetic algorithms for learning concepts with complex interaction. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Shakya et al.(2005)Shakya, McCall and Brown] **Shakya, S., McCall, J. and Brown, D.** (2005). Using a markov network model in a univariate eda: an empirical cost-benefit analysis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Shapiro et al.(2005)Shapiro, Lamont and Peterson] **Shapiro, J. M., Lamont, G. B. and Peterson, G. L.** (2005). An evolutionary algorithm to generate hyper-ellipsoid detectors for negative selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora,

S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Shir and Bäck(2005)] **Shir, O. M. and Bäck, T.** (2005). Niching in evolution strategies. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Silva and Costa(2005)] **Silva, S. and Costa, E.** (2005). Resource-limited genetic programming: the dynamic approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sit and Miikkulainen(2005)] **Sit, Y. F. and Miikkulainen, R.** (2005). Learning basic navigation for personal satellite assistant using neuroevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Skellett et al.(2005)Skellett, Cairns, Geard, Tonkes and Wiles] **Skellett, B., Cairns, B., Geard, N., Tonkes, B. and Wiles, J.** (2005). Maximally rugged nk landscapes contain the highest peaks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Skolicki and De Jong(2005)] **Skolicki, Z. and De Jong, K.** (2005). The influence of migration sizes and intervals on island models. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Smith, III(2005)] **Smith, III, J. F.** (2005). Evolving fuzzy decision tree structure that adapts in real-time. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sokolov and Whitley(2005)] **Sokolov, A. and Whitley, D.** (2005). Unbiased tournament selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sokolov et al.(2005)Sokolov, Whitley and Lunacek] **Sokolov, A., Whitley, D. and Lunacek, M.** (2005). Alternative implementations of the griewangk function. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference*

on Genetic and evolutionary computation, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Soltoggio(2005)] **Soltoggio, A.** (2005). An enhanced ga to improve the search process reliability in tuning of control systems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Spector et al.(2005)Spector, Klein and Keijzer] **Spector, L., Klein, J. and Keijzer, M.** (2005). The push3 execution stack and the evolution of control. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Spellward and Kovacs(2005)] **Spellward, P. and Kovacs, T.** (2005). On the contribution of gene libraries to artificial immune systems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Spieth et al.(2005)Spieth, Streichert, Speer and Zell] **Spieth, C., Streichert, F., Speer, N. and Zell, A.** (2005). Identifying valid solutions for the inference of regulatory networks. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stanley et al.(2005)Stanley, Kohl, Sherony and Miikkulainen] **Stanley, K., Kohl, N., Sherony, R. and Miikkulainen, R.** (2005). Neuroevolution of an automobile crash warning system. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stevens et al.(2005a)Stevens, Das and Natarajan] **Stevens, D., Das, S. and Natarajan, B.** (2005a). A multi-objective algorithm for ds-cdma code design based on the clonal selection principle. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stevens et al.(2005b)Stevens, Heckendorn and Soule] **Stevens, J., Heckendorn, R. B. and Soule, T.** (2005b). Exploiting disruption aversion to control code bloat. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stibor et al.(2005)Stibor, Mohr, Timmis and Eckert] **Stibor, T., Mohr, P., Timmis, J. and Eckert, C.** (2005). Is negative selection appropriate for anomaly detection? In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta,

K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Storch(2005)] **Storch, T.** (2005). On the impact of objective function transformations on evolutionary and black-box algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stout and Spector(2005)] **Stout, A. and Spector, L.** (2005). Validation of evolutionary activity metrics for long-term evolutionary dynamics. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Stringer and Wu(2005)] **Stringer, H. and Wu, A. S.** (2005). Behavior of finite population variable length genetic algorithms under random selection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sudholt(2005)] **Sudholt, D.** (2005). Crossover is provably essential for the ising model on trees. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sureka and Wurman(2005)] **Sureka, A. and Wurman, P. R.** (2005). Applying metaheuristic techniques to search the space of bidding strategies in combinatorial auctions. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Sutton et al.(2005)Sutton, Kagdi, Maletic and Volkert] **Sutton, A., Kagdi, H., Maletic, J. I. and Volkert, L. G.** (2005). Hybridizing evolutionary algorithms and clustering algorithms to find source-code clones. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Szumlanski et al.(2005)Szumlanski, Wu and Hughes] **Szumlanski, S. R., Wu, A. S. and Hughes, C. E.** (2005). Collaborative interactive evolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Talaie et al.(2005)Talaie, Leigh, Louis and Raines] **Talaie, S., Leigh, R., Louis, S. J. and Raines, G. L.** (2005). Predicting mining activity with parallel genetic algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz,

D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Tanev(2005)] **Tanev, I.** (2005). Learned mutation strategies in genetic programming for evolution and adaptation of simulated snakebot. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Tang et al.(2005)Tang, Lim, Ong and Er] **Tang, J., Lim, M. H., Ong, Y. S. and Er, M. J.** (2005). Solving large scale combinatorial optimization using pma-sls. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Tang and Jarvis(2005)] **Tang, K. W. and Jarvis, R. A.** (2005). From supervised ranking to evolving behaviours of a robotic team. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Terashima-Marín et al.(2005)Terashima-Marín, Flores-Álvarez and Ross] **Terashima-Marín, H., Flores-Álvarez, E. J. and Ross, P.** (2005). Hyper-heuristics and classifier systems for solving 2d-regular cutting stock problems. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Thierens(2005)] **Thierens, D.** (2005). An adaptive pursuit strategy for allocating operator probabilities. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Townsend et al.(2005)Townsend, Hazel and Smock] **Townsend, G. C., Hazel, W. N. and Smock, R.** (2005). Using evolutionary computation methods to support analytical models for the evolution and maintenance of conditional strategies in chthamalus anisopoma. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Tumer and Agogino(2005)] **Tumer, K. and Agogino, A.** (2005). Coordinating multi-rover systems: evaluation functions for dynamic and noisy environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Uyar and Eryiğit(2005)] **Uyar, S. and Eryiğit, G.** (2005). Improvements to penalty-based evolutionary algorithms for the multi-dimensional knapsack problem using a gene-based adaptive mutation approach. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Valsalam et al.(2005)Valsalam, Bednar and Miikkulainen] **Valsalam, V., Bednar, J. and Miikkulainen, R.** (2005). Constructing good learners using evolved pattern generators. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Vigraham et al.(2005)Vigraham, Gallagher and Boddhu] **Vigraham, S. A., Gallagher, J. C. and Boddhu, S. K.** (2005). Evolving analog controllers for correcting thermoacoustic instability in real hardware. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Vrajitoru and DeBoni(2005)] **Vrajitoru, D. and DeBoni, J.** (2005). Hybrid real-coded mutation for genetic algorithms applied to graph layouts. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Walker and Miller(2005)] **Walker, J. A. and Miller, J. F.** (2005). Investigating the performance of module acquisition in cartesian genetic programming. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wang et al.(2005)Wang, Rahman and Wong] **Wang, Z.-G., Rahman, M. and Wong, Y.-S.** (2005). Multi-niche crowding in the development of parallel genetic simulated annealing. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wappler and Lammermann(2005)] **Wappler, S. and Lammermann, F.** (2005). Using evolutionary algorithms for the unit testing of object-oriented software. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Watanabe and Sakakibara(2005)] **Watanabe, S. and Sakakibara, K.** (2005). The effectiveness of multiobjective optimizer in single-objective optimization enviroment. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl,

T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wedde et al.(2005)Wedde, Farooq, Pannenbaecker, Vogel, Mueller, Meth and Jeruschkat] **Wedde, H. F., Farooq, M., Pannenbaecker, T., Vogel, B., Mueller, C., Meth, J. and Jeruschkat, R.** (2005). Beeadhoc: an energy efficient routing algorithm for mobile ad hoc networks inspired by bee behavior. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Whiteson et al.(2005)Whiteson, Stone, Stanley, Miikkulainen and Kohl] **Whiteson, S., Stone, P., Stanley, K. O., Miikkulainen, R. and Kohl, N.** (2005). Automatic feature selection in neuroevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Whiting et al.(2005)Whiting, Poon and Carter] **Whiting, P., Poon, P. W. and Carter, J. N.** (2005). A genetic algorithm approach to the selection of near-optimal subsets from large sets. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wierstra et al.(2005)Wierstra, Gomez and Schmidhuber] **Wierstra, D., Gomez, F. J. and Schmidhuber, J.** (2005). Modeling systems with internal state using evolino. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wiese et al.(2005)Wiese, Hendriks, Deschênes and Youssef] **Wiese, K. C., Hendriks, A., Deschênes, A. and Youssef, B. B.** (2005). The impact of pseudorandom number quality on p-rnapredict, a parallel genetic algorithm for rna secondary structure prediction. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wight and Zhang(2005)] **Wight, J. and Zhang, Y.** (2005). An "ageing" operator and its use in the highly constrained topological optimization of hvac system design. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Williams and Mitchell(2005)] **Williams, N. and Mitchell, M.** (2005). Investigating the success of spatial coevolution. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wilson and Heywood(2005)] **Wilson, G. and Heywood, M.** (2005). Use of a genetic algorithm in brill's transformation-based part-of-speech tagger. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wright and Pulavarty(2005)] **Wright, A. H. and Pulavarty, S.** (2005). On the convergence of an estimation of distribution algorithm based on linkage discovery and factorization. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Wu and Chung(2005)] **Wu, J.-Y. and Chung, Y.-K.** (2005). Artificial immune system for solving generalized geometric problems: a preliminary results. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Xu et al.(2005)Xu, Louis and Mancini] **Xu, K., Louis, S. J. and Mancini, R. C.** (2005). A scalable parallel genetic algorithm for x-ray spectroscopic analysis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yanai and Iba(2005)] **Yanai, K. and Iba, H.** (2005). Probabilistic distribution models for eda-based gp. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yang(2005a)] **Yang, S.** (2005a). Memory-based immigrants for genetic algorithms in dynamic environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yang(2005b)] **Yang, S.** (2005b). Population-based incremental learning with memory scheme for changing environments. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yilmaz and Wu(2005)] **Yilmaz, A. S. and Wu, A. S.** (2005). Preservation of genetic redundancy in the existence of developmental error and fitness assignment error. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yilmaz et al.(2005)Yilmaz, Ivanov and Levine] **Yilmaz, S., Ivanov, K. and Levine, S.** (2005). Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yoon et al.(2005)Yoon, Kim and Moon] **Yoon, Y., Kim, Y.-H. and Moon, B.-R.** (2005). An evolutionary lagrangian method for the 0/1 multiple knapsack problem. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yossi and Poli(2005)] **Yossi, B. and Poli, R.** (2005). Information landscapes and the analysis of search algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yu et al.(2005)Yu, Sastry and Goldberg] **Yu, T.-L., Sastry, K. and Goldberg, D. E.** (2005). Linkage learning, overlapping building blocks, and systematic strategy for scalable recombination. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yuan and Gallagher(2005)] **Yuan, B. and Gallagher, M.** (2005). On the importance of diversity maintenance in estimation of distribution algorithms. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Yuan et al.(2005)Yuan, Gallagher and Crozier] **Yuan, B., Gallagher, M. and Crozier, S.** (2005). Mri magnet design: search space analysis, edas and a real-world problem with significant dependencies. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zavala et al.(2005)Zavala, Aguirre and Diharce] **Zavala, A. E. M., Aguirre, A. H. and Diharce, E. R. V.** (2005). Constrained optimization via particle evolutionary swarm optimization algorithm (peso). In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zechman and Ranjithan(2005)] **Zechman, E. M. and Ranjithan, S. R.** (2005). Multipopulation cooperative coevolutionary programming (mccp) to enhance design innovation. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan,

G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zhan and Clark(2005)] **Zhan, Y. and Clark, J. A.** (2005). Search-based mutation testing for simulink models. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zhang and Jang(2005)] **Zhang, B.-T. and Jang, H.-Y.** (2005). Molecular programming: evolving genetic programs in a test tube. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zhang and Rasheed(2005)] **Zhang, C. and Rasheed, K.** (2005). Improving ga search reliability using maximal hyper-rectangle analysis. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zhang et al.(2005)Zhang, Chung and Zhong] **Zhang, J., Chung, H. S. H. and Zhong, J.** (2005). Adaptive crossover and mutation in genetic algorithms based on clustering technique. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 2. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.

[Zhang and Rockett(2005)] **Zhang, Y. and Rockett, P. I.** (2005). Evolving optimal feature extraction using multi-objective genetic programming: a methodology and preliminary study on edge detection. In H.-G. Beyer, U.-M. O'Reilly, D. V. Arnold, W. Banzhaf, C. Blum, E. W. Bonabeau, E. Cantu-Paz, D. Dasgupta, K. Deb, J. A. Foster, E. D. de Jong, H. Lipson, X. Llora, S. Mancoridis, M. Pelikan, G. R. Raidl, T. Soule, A. M. Tyrrell, J.-P. Watson and E. Zitzler, eds., *GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation*, volume 1. Washington DC, USA: ACM Press. ISBN 1-59593-010-8.