Список литературы

[1] Salem F. Adra, Ian Griffin, and Peter J. Fleming, *Hybrid multiobjective genetic algorithm with a new adaptive local search process*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1009–1010.

[2] Michael Affenzeller, Stefan Wagner, and Stephan Winkler, *Goal-oriented preservation of essential genetic information by offspring selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1595–1596.

[3] Adrian Agogino, Kagan Tumer, and Risto Miikkulainen, *Efficient credit assignment through evaluation function decomposition*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1309–1316.

[4] Jesús S. Aguilar-Ruiz and Federico Divina, *Ga-based approach to discover meaningful biclusters*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 473–474.

[5] Chang Wook Ahn, Sanghoun Oh, and R. S. Ramakrishna, *On the practical genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1583–1584.

[6] Barry Ahrens, *Genetic algorithm optimization of superresolution parameters*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2083–2088.

[7] Enrique Alba, Hugo Alfonso, and Bernabé Dorronsoro, *Advanced models of cellular genetic algorithms evaluated on sat*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1123–1130.

[8] Fatih Alim and Kostadin Ivanov, *Heuristic rules embedded genetic algorithm to solve in-core fuel management optimization problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2191–2192.

[9] Heni Ben Amor and Achim Rettinger, *Intelligent exploration for genetic algorithms: using self-organizing maps in evolutionary computation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1531–1538.

[10] Shin Ando and Shigenobu Kobayashi, *Fitness-based neighbor selection for multimodal function optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1573–1574.

[11] Shin Ando, Jun Sakuma, and Shigenobu Kobayashi, *Adaptive isolation model using data clustering for multimodal function optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1417–1424.

[12] Ján Antolík and William H. Hsu, *Evolutionary tree genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1789–1790.

[13] Daniel Ashlock and Eun-Youn Kim, *The impact of cellular representation on finite state agents for prisoner's dilemma*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 59–66.

[14] Anne Auger, Marc Schoenauer, and Olivier Teytaud, *Local and global order 3/2 convergence of a surrogate evolutionary algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 857–864.

[15] Surapong Auwatanamongkol, *Inexact pattern matching using genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1567–1568.

[16] Jaume Bacardit, *Analysis of the initialization stage of a pittsburgh approach learning classifier system*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1843–1850.

[17] Helio J.C. Barbosa and Afonso C.C. Lemonge, *A genetic algorithm encoding for a class of cardinality constraints*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1193–1200.

[18] Jeffrey K. Bassett, Mitchell A. Potter, and Kenneth A. De Jong, *Applying price's equation to survival selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1371–1378.

[19] Ricardo Landa Becerra and Carlos A. Coello Coello, *Optimization with constraints using a cultured differential evolution approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 27–34.

[20] R. Bello, A. Nowe, Y. Caballero, Y. Gómez, and P. Vrancx, *A model based on ant colony system and rough set theory to feature selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 275–276.

[21] Johan Berntsson and Maolin Tang, *Adaptive sizing of populations and number of islands in distributed genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1575–1576.

[22] _____, *Dynamic optimization of migration topology in internet-based distributed genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary

computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1579–1580.

[23] Sireesha Besetti and Terence Soule, *Function choice, resiliency and growth in genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1771–1772.

[24] Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler (eds.), *GECCO 2005: Proceedings of the 2005 conference on genetic and evolutionary computation*, Washington DC, USA, ACM Press, 25-29 June 2005.

[25] Josh C. Bongard and Hod Lipson, *'managed challenge' alleviates disengagement in co-evolutionary system identification*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 531–538.

[26] Yossi Borenstein and Riccardo Poli, *Information landscapes*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1515–1522.

[27] _____ , *Information landscapes and problem hardness*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1425–1431.

[28] István Borgulya, *A hybrid evolutionary algorithm for the p-median problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 649–650.

[29] Peter A. N. Bosman and Edwin D. de Jong, *Exploiting gradient information in numerical multi–objective evolutionary optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 755–762.

[30] Anthony Brabazon, Arlindo Silva, Tiago Ferra de Sousa, Michael O'Neill, Robin Matthews, and Ernesto Costa, *Agent-based modelling of product invention*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 129–136.

[31] Lucas Bradstreet, Luigi Barone, and Lyndon While, *Map-labelling with a multi-objective evolutionary algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1937–1944.

[32] Jürgen Branke, Erdem Salihoğlu, and Şima Uyar, *Towards an analysis of dynamic environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1433–1440.

[33] R. Breukelaar and Th. Bäck, *Using a genetic algorithm to evolve behavior in multi dimensional cellular automata: emergence of behavior*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 107–114.

[34] Lionel C. Briand, Yvan Labiche, and Marwa Shousha, *Stress testing real-time systems with genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1021–1028.

[35] Will Browne and Dan Scott, *An abstraction agorithm for genetics-based reinforcement learning*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1875–1882.

[36] Anthony Bucci and Jordan B. Pollack, *On identifying global optima in cooperative coevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 539–544.

[37] Julien Budynek, Eric Bonabeau, and Ben Shargel, *Evolving computer intrusion scripts for vulnerability assessment and log analysis*, GECCO 2005: Proceedings of the 2005 conference

on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1905–1912.

[38] Lam T. Bui, Hussein A. Abbass, and Daryl Essam, *Fitness inheritance for noisy evolutionary multi-objective optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 779–785.

[39] Lam T. Bui, Jürgen Branke, and Hussein A. Abbass, *Diversity as a selection pressure in dynamic environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1557–1558.

[40] Thang N. Bui and Mufit Colpan, *Solving geometric tsp with ants*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 271–272.

[41] Thang N. Bui and Gnanasekaran Sundarraj, *An efficient genetic algorithm for predicting protein tertiary structures in the 2d hp model*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 385–392.

[42] Martin V. Butz, *Kernel-based, ellipsoidal conditions in the real-valued xcs classifier system*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1835–1842.

[43] Martin V. Butz, Martin Pelikan, Xavier Llorà, and David E. Goldberg, *Extracted global structure makes local building block processing effective in xcs*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 655–662.

[44] D. E. Cairns, G. J. Cameron, and T. J. Wess, *Evolving an improved axial structure for fibrillar collagen*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary

computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 471–472.

[45] Gerardo Canfora, Massimiliano Di Penta, Raffaele Esposito, and Maria Luisa Villani, *An approach for qos-aware service composition based on genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1069–1075.

[46] Emma Carter, Steve Ebdon, and Clive Neal-Sturgess, *Optimization of passenger car design for the mitigation of pedestrian head injury using a genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2113–2120.

[47] Flor A. Castillo and Carlos M. Villa, *Symbolic regression in multicollinearity problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2207–2208.

[48] Rachel Cavill, Steve Smith, and Andy Tyrrell, *Multi-chromosomal genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1753–1759.

[49] Renato Reder Cazangi, Fernando J. Von Zuben, and Maurício F. Figueiredo, *Autonomous navigation system applied to collective robotics with ant-inspired communication*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 121–128.

[50] Dongsheng Che, Yinglei Song, and Khaled Rasheed, *Mdga: motif discovery using a genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 447–452.

[51] Jian-Hung Chen, Shinn-Ying Ho, and David E. Goldberg, *Quality-time analysis of multi-objective evolutionary algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic

and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1455–1462.

[52] Stephen Chen and Gregory Pitt, *Isolating the benefits of respect*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1601–1602.

[53] David M. Cherba, William Punch, Phil Duxbury, Simon Billinge, and Pavol Juhas, *Conformation of an ideal bucky ball molecule by genetic algorithm and geometric constraint from pair distance data: genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1565–1566.

[54] Sung-Soon Choi, Kyomin Jung, and Jeong Han Kim, *Phase transition in a random nk landscape model*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1241–1248.

[55] Yoon-Seok Choi, Byung-Ro Moon, and Sang Yong Seo, *Genetic fuzzy discretization with adaptive intervals for classification problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2037–2043.

[56] Grant Cochenour, Jerad Simon, Sanjoy Das, Anil Pahwa, and Surasish Nag, *A pareto archive evolutionary strategy based radial basis function neural network training algorithm for failure rate prediction in overhead feeders*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2127–2132.

[57] M. Collins, *Finding needles in haystacks is harder with neutrality*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1613–1618.

[58] Lin Cong, Yuheng Sha, Licheng Jiao, and Fang Liu, *Directional self-learning of genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang

Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1569–1570.

[59] Zhihua Cui and Jianchao Zeng, *A modified particle swarm optimization predicted by velocity*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 277–278.

[60] Diego Sal Díaz and Manuel Graña Romay, *Introducing a watermarking with a multi-objective genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2219–2220.

[61] K. P. Dahal, S. J. Galloway, G. M. Burt, J. R. McDonald, and I. Hopkins, *A case study of process facility optimization using discrete event simulation and genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2197–2198.

[62] Jason M. Daida, *Towards identifying populations that increase the likelihood of success in genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1627–1634.

[63] Jason M. Daida, Michael E. Samples, and Matthew J. Byom, *Probing for limits to building block mixing with a tunably-difficult problem for genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1713–1720.

[64] Hai H. Dam, Hussein A. Abbass, and Chris Lokan, *Dxcs: an xcs system for distributed data mining*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1883–1890.

[65] Mohammad Daoud and Nawwaf Kharma, *Gats 1.0: a novel ga-based scheduling algorithm for task scheduling on heterogeneous processor nets*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick

Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2209–2210.

[66] Swagatam Das, Amit Konar, and Uday K. Chakraborty, *An efficient evolutionary algorithm applied to the design of two-dimensional iir filters*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2157–2163.

[67] _____, *Improving particle swarm optimization with differentially perturbed velocity*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 177–184.

[68] _____, *Two improved differential evolution schemes for faster global search*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 991–998.

[69] Richard O. Day, Abel S. Nunez, and Gary B. Lamont, *Moea design of robust digital symbol sets*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2213–2214.

[70] Fabricio Olivetti de França, Fernando J. Von Zuben, and Leandro Nunes de Castro, *An artificial immune network for multimodal function optimization on dynamic environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 289–296.

[71] Edwin de Jong, *The maxsolve algorithm for coevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 483–489.

[72] Edwin D. de Jong, Richard A. Watson, and Dirk Thierens, *On the complexity of hierarchical problem solving*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta,

Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1201–1208.

[73] U. Chandimal de Silva and Joe Suzuki, *On the stationary distribution of gas with fixed crossover probability*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1147–1151.

[74] Anne Defaweux, Tom Lenaerts, Jano van Hemert, and Johan Parent, *Transition models as an incremental approach for problem solving in evolutionary algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 599–606.

[75] Ian Dempsey, Michael O'Neill, and Anthony Brabazon, *Meta-grammar constant creation with grammatical evolution by grammatical evolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1665–1671.

[76] Karnig Derderian, Robert M. Hierons, Mark Harman, and Qiang Guo, *Generating feasible input sequences for extended finite state machines (efsms) using genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1081–1082.

[77] Pedro A. Diaz-Gomez and Dean F. Hougen, *Analysis and mathematical justification of a fitness function used in an intrusion detection system*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1591–1592.

[78] Lixin Ding and Jinghu Yu, *Some theoretical results about the computation time of evolutionary algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1409–1415.

[79] Keith L. Downing, *The predictive basis of situated and embodied artificial intelligence*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian

Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 43–50.

[80] Stefan Droste, *Not all linear functions are equally difficult for the compact genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 679–686.

[81] Jan Drugowitsch and Alwyn M. Barry, *Xcs with eligibility traces*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1851–1858.

[82] Abraham Duarte, Ángel Sánchez, Felipe Fernández, and Raúl Cabido, *A low-level hybridization between memetic algorithm and vns for the max-cut problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 999–1006.

[83] Deborah Vakas Duong and John Grefenstette, *The emulation of social institutions as a method of coevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 555–556.

[84] Ihsan Ecemis, Eric Bonabeau, and Trent Ashburn, *Interactive estimation of agent-based financial markets models: modularity and learning*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1897–1904.

[85] A. E. Eiben, M. C. Schut, and T. Toma, *Comparing multicast and newscast communication in evolving agent societies*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 75–81.

[86] Mohammed El-Abd and Mohamed Kamel, *Factors governing the behavior of multiple cooperating swarms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta,

Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 269–270.

[87] Pio Fenton and Paul Walsh, *A comparison of messy ga and permutation based ga for job shop scheduling*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1593–1594.

[88] Tiago A. E. Ferreira, Germano C. Vasconcelos, and Paulo J. L. Adeodato, *A new evolutionary method for time series forecasting*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2221–2222.

[89] Edgardo Ferretti and Susana Esquivel, *Knowledge insertion: an efficient approach to reduce effort in simple genetic algorithms for unrestricted parallel equal machines scheduling*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1587–1588.

[90] Sevan G. Ficici, *Monotonic solution concepts in coevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 499–506.

[91] Hiram Firpi, Erik Goodman, and Javier Echauz, *Epileptic seizure detection by means of genetically programmed artificial features*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 461–466.

[92] Mark Fleischer, *Scale invariant pareto optimality: a meta–formalism for characterizing and modeling cooperativity in evolutionary systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 233–240.

[93] Wai Kuan Foong, Holger R. Maier, and Angus R. Simpson, *Ant colony optimization for power plant maintenance scheduling optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick

Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 249–256.

[94] Nate Foreman and Matthew Evett, *Preventing overfitting in gp with canary functions*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1779–1780.

[95] Pablo Funes and Enrique Pujals, *Intransitivity revisited coevolutionary dynamics of numbers games*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 515–521.

[96] Juan Carlos Galeano, Angélica Veloza-Suan, and Fabio A. González, *A comparative analysis of artificial immune network models*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 361–368.

[97] Ivan Garibay, Annie S. Wu, and Ozlem Garibay, *On favoring positive correlations between form and quality of candidate solutions via the emergence of genomic self-similarity*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1177–1184.

[98] Deon Garrett, Joseph Vannucci, Rodrigo Silva, Dipankar Dasgupta, and James Simien, *Genetic algorithms for the sailor assignment problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1921–1928.

[99] Zong Woo Geem, Kang Seok Lee, and Chung-Li Tseng, *Harmony search for structural design*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 651–652.

[100] Sylvain Gelly, Olivier Teytaud, Nicolas Bredeche, and Marc Schoenauer, *A statistical learning theory approach of bloat*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly,

Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1783–1784.

[101] Mario Giacobini, Marco Tomassini, and Andrea Tettamanzi, *Takeover time curves in random and small-world structured populations*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1333–1340.

[102] Raúl Giráldez and Jesús S. Aguilar-Ruiz, *Feature influence for evolutionary learning*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1139–1145.

[103] Faustino J. Gomez and Jürgen Schmidhuber, *Co-evolving recurrent neurons learn deep memory pomdps*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 491–498.

[104] Maoguo Gong, Licheng Jiao, Haifeng Du, Ronghua Shang, and Bin Lu, *Performance assessment of an artificial immune system multiobjective optimizer by two improved metrics*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 373–374.

[105] Maoguo Gong, Ling Wang, Licheng Jiao, and Haifeng Du, *An artificial immune system algorithm for cdma multiuser detection over multi-path channels*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2105–2111.

[106] Yiyuan Gong, Morikazu Nakamura, and Shiro Tamaki, *Parallel genetic algorithms on line topology of heterogeneous computing resources*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1447–1454.

[107] Fabio A. González, Juan Carlos Galeano, Diego Alexander Rojas, and Angélica Veloza-Suan, *Discriminating and visualizing anomalies using negative selection and self-organizing maps*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary

computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 297–304.

[108] Timothy G. W. Gordon and Peter J. Bentley, *Bias and scalability in evolutionary development*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 83–90.

[109] Lee Graham, Hassan Masum, and Franz Oppacher, *Statistical analysis of heuristics for evolving sorting networks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1265–1270.

[110] Uli Grasemann and Risto Miikkulainen, *Effective image compression using evolved wavelets*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1961–1968.

[111] William A. Greene, *Schema disruption in tree-structured chromosomes*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1401–1408.

[112] Concettina Del Grosso, Giuliano Antoniol, Massimiliano Di Penta, Philippe Galinier, and Ettore Merlo, *Improving network applications security: a new heuristic to generate stress testing data*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1037–1043.

[113] Christian Gunia, *On the analysis of the approximation capability of simple evolutionary algorithms for scheduling problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 571–578.

[114] Zaiyi Guo, Hann Kwang Han, and Joc Cing Tay, *Sufficiency verification of hiv-1 pathogenesis based on multi-agent simulation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz,

Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 305–312.

[115] Nan Guofang, Li Minqiang, and Kou Jisong, *Multi-level genetic algorithm (mlga) for the construction of clock binary tree*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1441–1445.

[116] Jose Antonio Martin H., *Search space modulation in genetic algorithms: evolving the search space by sinusoidal transformations*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1559–1560.

[117] Joseph Haas, Maxim Peysakhov, and Spiros Mancoridis, *Ga-based parameter tuning for multi-agent systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1085–1086.

[118] Ju Han and Bir Bhanu, *Hierarchical multi-sensor image registration using evolutionary computation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2045–2052.

[119] Xiaoshu Hang and Honghua Dai, *Applying both positive and negative selection to supervised learning for anomaly detection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 345–352.

[120] Mark Harman, Stephen Swift, and Kiarash Mahdavi, *An empirical study of the robustness of two module clustering fitness functions*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1029–1036.

[121] Vegard Hartmann, *Evolving agent swarms for clustering and sorting*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 217–224.

[122] Martina Hasenjäger, Bernhard Sendhoff, Toyotaka Sonoda, and Toshiyuki Arima, *Three dimensional evolutionary aerodynamic design optimization with cma-es*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2173–2180.

[123] German Hernandez, Kenneth Wilder, Fernando Nino, and Julian Garcia, *Towards a self-stopping evolutionary algorithm using coupling from the past*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 615–620.

[124] Samer L. Hijazi, Balasubramaniam Natarajan, and Sanjoy Das, *An ant colony algorithm for multi-user detection in wireless communication systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2121–2126.

[125] Tomoyuki Hiroyasu, Mitsunori Miki, Seiichi Nakayama, and Yoshiko Hanada, *Multi-objective optimization of diesel engine emissions and fuel economy using spea2+*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2195–2196.

[126] Pei Yee Ho and Kazuyuki Shimizu, *Simple addition of ranking method for constrained optimization in evolutionary algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 889–896.

[127] Tim Hohm and Daniel Hoffmann, *A multi-objective evolutionary approach to peptide structure redesign and stabilization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 423–429.

[128] Yi Hong, Qingsheng Ren, and Jin Zeng, *Genetic drift in univariate marginal distribution algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros

Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 745–746.

[129] Jeffrey Horn, *Shape nesting by coevolving species*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 557–558.

[130] Gregory S. Hornby, *Measuring, enabling and comparing modularity, regularity and hierarchy in evolutionary design*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1729–1736.

[131] Chen hsiung Chan, Sheng-An Lee, Cheng-Yan Kao, and Huai-Kuang Tsai, *Improving eax with restricted 2-opt*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1471–1476.

[132] Jianjun Hu, Xiwei Zhong, and Erik D. Goodman, *Open-ended robust design of analog filters using genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1619–1626.

[133] Zhao hua Yang, Jian cheng Fang, and Zhen qiang Qi, *Flight midcourse guidance control based on genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1501–1506.

[134] Chien-Feng Huang, Stefan Bieniawski, David H. Wolpert, and Charlie E. M. Strauss, *A comparative study of probability collectives based multi-agent systems and genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 751–752.

[135] Chien-Feng Huang and Luis M. Rocha, *Tracking extrema in dynamic environments using a coevolutionary agent-based model of genotype edition*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 545–552.

[136] Rusty Hunt, Gregory S. Hornby, and Jason D. Lohn, *Toward evolved flight*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 957–964.

[137] M. T. Iglesias, B. Naudts, A. Verschoren, and C. Vidal, *Walsh transforms, balanced sum theorems and partition coefficients over multary alphabets*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1303–1308.

[138] Hisao Ishibuchi and Kaname Narukawa, *Comparison of evolutionary multiobjective optimization with rference solution-based single-objective approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 787–794.

[139] Hisao Ishibuchi, Kaname Narukawa, and Yusuke Nojima, *An empirical study on the handling of overlapping solutions in evolutionary multiobjective optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 817–824.

[140] Jens Jägersküpper and Carsten Witt, *Rigorous runtime analysis of a (μ+1)es for the sphere function*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 849–856.

[141] David Jackson, *Dormant program nodes and the efficiency of genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1745–1751.

[142] _____, *Parsing and translation of expressions by genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1681–1688.

[143] Cezary Z. Janikow and Christopher J. Mann, *Cgp visits the santa fe trail: effects of heuristics on gp*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1697–1704.

[144] Thomas Jansen and Ulf Schellbach, *Theoretical analysis of a mutation-based evolutionary algorithm for a tracking problem in the lattice*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 841–848.

[145] Zhou Ji and Dipankar Dasgupta, *Estimating the detector coverage in a negative selection algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 281–288.

[146] Ming-Hui Jin, Cheng-Yan Kao, Yu-Cheng Huang, D. Frank Hsu, Ren-Guey Lee, and Chih-Kung Lee, *Compact genetic algorithm for active interval scheduling in hierarchical sensor networks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2205–2206.

[147] Bryant A. Julstrom, *The blob code is competitive with edge-sets in genetic algorithms for the minimum routing cost spanning tree problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 585–590.

[148] _____, *Greedy, genetic, and greedy genetic algorithms for the quadratic knapsack problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 607–614.

[149] Carlos Kavka, Patricia Roggero, and Marc Schoenauer, *Evolution of voronoi based fuzzy recurrent controllers*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1385–1392.

[150] Maarten Keijzer, Martin Baptist, Vladan Babovic, and Javier Rodriguez Uthurburu, *Determining equations for vegetation induced resistance using genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1999–2006.

[151] James Kennedy, *Dynamic-probabilistic particle swarms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 201–207.

[152] Didier Keymeulen, Wolfgang Fink, Michael I. Ferguson, Chris Peay, Boris Oks, Richard Terrile, and Karl Yee, *Evolutionary computation applied to the tuning of mems gyroscopes*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 927–932.

[153] Rafal Kicinger, Tomasz Arciszewski, and Kenneth De Jong, *Parameterized versus generative representations in structural design: an empirical comparison*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2007–2014.

[154] Jung-Hwan Kim, Sung-Soon Choi, and Byung-Ro Moon, *Normalization for neural network in genetic search*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1581–1582.

[155] Yong-Hyuk Kim and Byung-Ro Moon, *New topologies for genetic search space*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1393–1399.

[156] Shuhei Kimura and Koki Matsumura, *Genetic algorithms using low-discrepancy sequences*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1341–1346.

[157] Helder Knidel, Leandro N. de Castro, and Fernando J. Von Zuben, *Rabnet: a real-valued antibody network for data clustering*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 371–372.

[158] Praveen Koduru, Sanjoy Das, Stephen Welch, Judith L. Roe, and Zenaida P. Lopez-Dee, *A co-evolutionary hybrid algorithm for multi-objective optimization of gene regulatory network models*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 393–399.

[159] Abdullah Konak and Alice E. Smith, *Designing resilient networks using a hybrid genetic algorithm approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1279–1285.

[160] John R. Koza, Sameer H. Al-Sakran, and Lee W. Jones, *Automated re-invention of six patented optical lens systems using genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1953–1960.

[161] Oliver Kramer, Chuan-Kang Ting, and Hans Kleine Büning, *A mutation operator for evolution strategies to handle constrained problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 917–918.

[162] Mary E. Kurz and Sarah Canterbury, *Minimizing total flowtime and maximum earliness on a single machine using multiple measures of fitness*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 803–809.

[163] Yung-Keun Kwon, Sung-Soon Choi, and Byung-Ro Moon, *Stock prediction based on financial correlation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2061–2066.

[164] Yung-Keun Kwon and Byung-Ro Moon, *Nonlinear feature extraction using a neuro genetic hybrid*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2089–2096.

[165] Eric-Wubbo Lameijer, Ad IJzerman, and Joost Kok, *The molecule evoluator: an interactive evolutionary algorithm for designing drug molecules*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1969–1976.

[166] Frank Lammermann and Stefan Wappler, *Benefits of software measures for evolutionary white-box testing*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1083–1084.

[167] Samuel Landau, Olivier Sigaud, and Marc Schoenauer, *Atnosferes revisited*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1867–1874.

[168] Pier Luca Lanzi, Daniele Loiacono, Stewart W. Wilson, and David E. Goldberg, *Extending xcsf beyond linear approximation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1827–1834.

[169] _____, *Xcs with computed prediction in multistep environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1859–1866.

[170] Christian W. G. Lasarczyk and Wolfgang Banzhaf, *Total synthesis of algorithmic chemistries*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1635–1640.

[171] Agustín León-Barranco, Sandra E. Barajas, and Carlos A. Reyes, *Argen + arepo: mixing the artificial genetic engineering and artificial evolution of populations to improve the*

search process, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1597–1598.

[172] Greg Lee and Vadim Bulitko, *Gamm: genetic algorithms with meta-models for vision*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2029–2036.

[173] Shane Legg and Marcus Hutter, *Fitness uniform deletion: a simple way to preserve diversity*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1271–1278.

[174] Katharina A. Lehmann and Michael Kaufmann, *Evolutionary algorithms for the self-organized evolution of networks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 563–570.

[175] Mian Li, Shapour Azarm, and Vikrant Aute, *A multi-objective genetic algorithm for robust design optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 771–778.

[176] Xiaodong Li, *Efficient differential evolution using speciation for multimodal function optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 873–880.

[177] Hong-Long Liang, Chungnan Lee, and Jain-Shing Wu, *Multiplex pcr primer design for gene family using genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 67–74.

[178] Chihoon Lim and Eoksu Sim, *Production planning in manufacturing/remanufacturing environment using genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May

O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2217–2218.

[179] Cláudio F. Lima, Kumara Sastry, David E. Goldberg, and Fernando G. Lobo, *Combining competent crossover and mutation operators: a probabilistic model building approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 735–742.

[180] Feng-Mao Lin, Hsien-Da Huang, His-Yuan Huang, and Jorng-Tzong Horng, *Primer design for multiplex pcr using a genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 475–476.

[181] Bo-Fu Liu, Hung-Ming Chen, Jian-Hung Chen, Shiow-Fen Hwang, and Shinn-Ying Ho, *Meswarm: memetic particle swarm optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 267–268.

[182] Junhong Liu and Jouni Lampinen, *A differential evolution based incremental training method for rbf networks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 881–888.

[183] Xavier Llorà, Kumara Sastry, and David E. Goldberg, *The compact classifier system: motivation, analysis, and first results*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1993–1994.

[184] Xavier Llorà, Kumara Sastry, David E. Goldberg, Abhimanyu Gupta, and Lalitha Lakshmi, *Combating user fatigue in igas: partial ordering, support vector machines, and synthetic fitness*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1363–1370.

[185] Moshe Looks, Ben Goertzel, and Cassio Pennachin, *Learning computer programs with the bayesian optimization algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 747–748.

[186] Sean Luke, *Evolutionary computation and the c-value paradox*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 91–97.

[187] Monte Lunacek, Darrell Whitley, and James N. Knight, *Measuring mobility and the performance of global search algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1209–1216.

[188] Xiao Luo, Malcolm I. Heywood, and A. Nur Zincir-Heywood, *Evolving recurrent models using linear gp*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1787–1788.

[189] Michelle Lyman and Gary Lewandowski, *Genetic programming for association rules on card sorting data*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1551–1552.

[190] Hammad Majeed, Conor Ryan, and R. Muhammad Atif Azad, *Evaluating gp schema in context*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1773–1774.

[191] Jacob G. Martin, *Subproblem optimization by gene correlation with singular value decomposition*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1507–1514.

[192] Paul Massey, John A. Clark, and Susan Stepney, *Evolution of a human-competitive quantum fourier transform algorithm using genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer,

Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1657–1663.

[193] Artur Matos, Reiji Suzuki, and Takaya Arita, *Evolutionary models for maternal effects in simulated developmental systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 149–150.

[194] John F. McLoughlin, III and Walter Cedeño, *The enhanced evolutionary tabu search and its application to the quadratic assignment problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 975–982.

[195] Phil McMinn and Mike Holcombe, *Evolutionary testing of state-based programs*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1013–1020.

[196] Michelle McPartland, Stefano Nolfi, and Hussein A. Abbass, *Emergence of communication in competitive multi-agent systems: a pareto multi-objective approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 51–58.

[197] Nicholas Freitag McPhee and Ellery Fussell Crane, *A theoretical analysis of the hiff problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1153–1160.

[198] Timothy Meekhof and Robert B. Heckendorn, *Using evolutionary optimization to improve markov-based classification with limited training data*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2211–2212.

[199] Drew Mellor, *A first order logic classifier system*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer,

Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1819–1826.

[200] Efrén Mezura-Montes, Jesús Velázquez-Reyes, and Carlos A. Coello Coello, *Promising infeasibility and multiple offspring incorporated to differential evolution for constrained optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 225–232.

[201] Ingo Mierswa, *Incorporating fuzzy knowledge into fitness: multiobjective evolutionary 3d design of process plants*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1985–1992.

[202] Christopher K. Monson and Kevin D. Seppi, *Bayesian optimization models for particle swarms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 193–200.

[203] _____, *Exposing origin-seeking bias in pso*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 241–248.

[204] David Montana and Jason Redi, *Optimizing parameters of a mobile ad hoc network protocol with a genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1993–1998.

[205] Frank W. Moore, *A genetic algorithm for optimized reconstruction of quantized one-dimensional signals*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1599–1600.

[206] Naoki Mori, Masayuki Takeda, and Keinosuke Matsumoto, *A comparison study between genetic algorithms and bayesian optimize algorithms by novel indices*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W.

Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1485–1492.

[207] Tadahiko Murata and Takashi Nakamura, *Genetic network programming with automatically defined groups for assigning proper roles to multiple agents*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1705–1712.

[208] Tadahiko Murata and Masatoshi Yamaguchi, *Neighboring crossover to improve ga-based q-learning method for multi-legged robot control*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 145–146.

[209] Michael Nashvili, Markus Olhofer, and Bernhard Sendhoff, *Morphing methods in evolutionary design optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 897–904.

[210] Bogdan Tomoyuki Nassu, Elias Procópio Duarte, Jr., and Aurora T. Ramirez Pozo, *A comparison of evolutionary algorithms for system-level diagnosis*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2053–2060.

[211] Frank Neumann and Ingo Wegener, *Minimum spanning trees made easier via multi-objective optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 763–769.

[212] Nasimul Noman and Hitoshi Iba, *Enhancing differential evolution performance with local search for high dimensional function optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 967–974.

[213] _____, *Inference of gene regulatory networks using s-system and differential evolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington

DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 439–446.

[214] Jeremiah Nummela and Bryant A. Julstrom, *Evolving petri nets to represent metabolic pathways*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2133–2139.

[215] Ian Nunn and Tony White, *The application of antigenic search techniques to time series forecasting*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 353–360.

[216] Kei Ohnishi and Kaori Yoshida, *Evolutionary change in developmental timing*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1561–1562.

[217] Radovan Ondas, Martin Pelikan, and Kumara Sastry, *Scalability of genetic programming and probabilistic incremental program evolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1785–1786.

[218] Teong Joo Ong, Ryan Saunders, John Keyser, and John J. Leggett, *Terrain generation using genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1463–1470.

[219] Malay K. Pakhira and Rajat K. De, *A hardware pipeline for function optimization using genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 949–956.

[220] David Pardoe, Michael Ryoo, and Risto Miikkulainen, *Evolving neural network ensembles for control problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta,

Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1379–1384.

[221] Gary Parker and Ramona Georgescu, *Evolution of multi-loop controllers for fixed morphology with a cyclic genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 147–148.

[222] Anna Paszynska, *An extension of vose's markov chain model for genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1553–1554.

[223] Chandana Paul, Hod Lipson, and Francisco J. Valero Cuevas, *Evolutionary form-finding of tensegrity structures*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 3–10.

[224] Topon Kumar Paul and Hitoshi Iba, *Extraction of informative genes from microarray data*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 453–460.

[225] Joshua L. Payne and Margaret J. Eppstein, *A hybrid genetic algorithm with pattern search for finding heavy atoms in protein crystals*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 377–384.

[226] Sergio Ivvan Valdez Peña, Salvador Botello Rionda, and Arturo Hernéndez Aguirre, *Multiobjective shape optimization with constraints based on estimation distribution algorithms and correlated information*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 749–750.

[227] Martin Pelikan, Kumara Sastry, and David E. Goldberg, *Multiobjective hboa, clustering, and scalability*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros

Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 663–670.

[228] Lina Perelman and Avi Ostfeld, *Water distribution systems optimal design using cross entropy*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 647–648.

[229] Michael R. Peterson, Travis E. Doom, and Michael L. Raymer, *Ga-facilitated classifier optimization with varying similarity measures*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1549–1550.

[230] Q. Tuan Pham, *Evolutionary optimization of dynamic control problems accelerated by progressive step reduction*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2181–2187.

[231] Tanasanee Phienthrakul and Boonserm Kijsirikul, *Evolutionary strategies for multi-scale radial basis function kernels in support vector machines*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 905–911.

[232] Christophe Philemotte and Hugues Bersini, *Intrinsic emergence boosts adaptive capacity*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 559–560.

[233] Nelishia Pillay, *An investigation into using genetic programming as a means of inducing solutions to novice procedural programming problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1781–1782.

[234] Leon Poladian, *A ga for maximum likelihood phylogenetic inference using neighbour-joining as a genotype to phenotype mapping*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier

Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 415–422.

[235] Riccardo Poli, Cecilia Di Chio, and William B. Langdon, *Exploring extended particle swarms: a genetic programming approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 169–176.

[236] Riccardo Poli and William B. Langdon, *Backward-chaining genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1777–1778.

[237] Elena Popovici and Kenneth De Jong, *Understanding cooperative co-evolutionary dynamics via simple fitness landscapes*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 507–514.

[238] Mike Preuss, Lutz Schönemann, and Michael Emmerich, *Counteracting genetic drift and disruptive recombination in (μpluskommaλ)-ea on multimodal fitness landscapes*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 865–872.

[239] Lucian Prodan, Mihai Udrescu, and Mircea Vladutiu, *Multiple-level concatenated coding in embryonics: a dependability analysis*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 941–948.

[240] David Quintana, Cristóbal Luque, and Pedro Isasi, *Evolutionary rule-based system for ipo underpricing prediction*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 983–989.

[241] William Rand and Rick Riolo, *The problem with a self-adaptative mutation rate in some environments: a case study using the shaky ladder hyperplane-defined functions*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan,

Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1493–1500.

[242] Carlo R. Raquel and Prospero C. Naval, Jr., *An effective use of crowding distance in multiobjective particle swarm optimization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 257–264.

[243] B. Ravichandran, Avinash Gandhe, and R. E. Smith, *Xcs for robust automatic target recognition*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1803–1810.

[244] Cecília Reis, J. A. Tenreiro Machado, and J. Boaventura Cunha, *Fractional dynamic fitness functions for ga-based circuit design*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1571–1572.

[245] H. Ressom, R. S. Varghese, D. Saha, E. Orvisky, L. Goldman, E. F. Petricoin, T. P. Conrads, T. D. Veenstra, M. Abdel-Hamid, C. A. Loffredo, and R. Goldman, *Particle swarm optimization for analysis of mass spectral serum profiles*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 431–438.

[246] Marc D. Richards, Darrell Whitley, J. Ross Beveridge, Todd Mytkowicz, Duong Nguyen, and David Rome, *Evolving cooperative strategies for uav teams*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1721–1728.

[247] J. Neal Richter, John Paxton, and Alden Wright, *Ea models and population fixed-points versus mutation rates for functions of unitation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1233–1240.

[248] Jeffrey P. Ridder and Jason C. HandUber, *Mission planning for joint suppression of enemy air defenses using a genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on

Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1929–1936.

[249] John Rieffel and Jordan Pollack, *Automated assembly as situated development: using artificial ontogenies to evolve buildable 3-d objects*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 99–106.

[250] Franz Rothlauf, Daniel Schunk, and Jella Pfeiffer, *Classification of human decision behavior: finding modular decision rules with genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2021–2028.

[251] Matthew A. Russell and Gary B. Lamont, *A genetic algorithm for unmanned aerial vehicle routing*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1523–1530.

[252] Sadiq M. Sait, Mohammed Faheemuddin, Mahmood R. Minhas, and Syed Sanaullah, *Multiobjective vlsi cell placement using distributed genetic algorithm*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1585–1586.

[253] Sadiq M. Sait, Syed Sanaullah, Ali Mustafa Zaidi, and Mustafa I. Ali, *Comparative evaluation of parallelization strategies for evolutionary and stochastic heuristics*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 921–922.

[254] Jun Sakuma and Shigenobu Kobayashi, *Latent variable crossover for k-tablet structures and its application to lens design problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1347–1354.

[255] _____ , *Real-coded crossover as a role of kernel density estimation*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 703–710.

[256] Michael E. Samples, Jason M. Daida, Matthew Byom, and Matt Pizzimenti, *Parameter sweeps for exploring gp parameters*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1791–1792.

[257] Alexei V. Samsonovich and Kenneth A. De Jong, *Pricing the 'free lunch' of meta-evolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1355–1362.

[258] E. Sanchez, M. Schillaci, M. Sonza Reorda, G. Squillero, L. Sterpone, and M. Violante, *New evolutionary techniques for test-program generation for complex microprocessor cores*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2193–2194.

[259] Kumara Sastry, Hussein A. Abbass, David E. Goldberg, and D. D. Johnson, *Sub-structural niching in estimation of distribution algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 671–678.

[260] Yuji Sato and Ryutaro Kanno, *Event-driven learning classifier systems for online soccer games*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2201–2202.

[261] Lutz Schönemann, *Optimal number of evolution strategies mutation step sizes in dynamic environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 923–924.

[262] Matthias Scheutz and Paul Schermerhorn, *Predicting population dynamics and evolutionary trajectories based on performance evaluations in alife simulations*, GECCO 2005: Proceedings

of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 35–42.

[263] Ehud Schlessinger, Peter J. Bentley, and R. Beau Lotto, *Evolving visually guided agents in an ambiguous virtual world*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 115–120.

[264] Thomas Schlichter, Christian Haubelt, and Jürgen Teich, *Improving ea-based design space exploration by utilizing symbolic feasibility tests*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1945–1952.

[265] T. Schmickl, R. Thenius, and K. Crailsheim, *Simulating swarm intelligence in honey bees: foraging in differently fluctuating environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 273–274.

[266] Karlheinz Schmitt, *Using gene deletion and gene duplication in evolution strategies*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 919–920.

[267] Karlheinz Schmitt, Jörn Mehnen, and Thomas Michelitsch, *Using predators and preys in evolution strategies*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 827–828.

[268] Justin Schonfeld and Daniel Ashlock, *A study of evolutionary robustness in stochastically tiled polyominos*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 19–26.

[269] Rolv Seehuus, Amund Tveit, and Ole Edsberg, *Discovering biological motifs with genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary

computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 401–408.

[270] Pasut Seeluangsawat and Prabhas Chongstitvatana, *A multiple objective evolutionary algorithm for multiple sequence alignment*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 477–478.

[271] Olaf Seng, Markus Bauer, Matthias Biehl, and Gert Pache, *Search-based improvement of subsystem decompositions*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1045–1051.

[272] Dong-Il Seo and Byung-Ro Moon, *Computing the epistasis variance of large-scale traveling salesman problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1169–1176.

[273] Kisung Seo, Erik D. Goodman, and Ronald C. Rosenberg, *Design of air pump system using bond graph and genetic programming method*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2215–2216.

[274] Matthew Settles, Paul Nathan, and Terence Soule, *Breeding swarms: a new approach to recurrent neural network training*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 185–192.

[275] Matthew Settles and Terence Soule, *Breeding swarms: a ga/pso hybrid*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 161–168.

[276] Leila Shila Shafti and Eduardo Pérez Pérez, *Constructive induction and genetic algorithms for learning concepts with complex interaction*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau,

Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1811–1818.

[277] Siddhartha Shakya, John McCall, and Deryck Brown, *Using a markov network model in a univariate eda: an empirical cost-benefit analysis*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 727–734.

[278] Joseph M. Shapiro, Gary B. Lamont, and Gilbert L. Peterson, *An evolutionary algorithm to generate hyper-ellipsoid detectors for negative selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 337–344.

[279] Ofer M. Shir and Thomas Bäck, *Niching in evolution strategies*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 915–916.

[280] Sara Silva and Ernesto Costa, *Resource-limited genetic programming: the dynamic approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1673–1680.

[281] Yiu Fai Sit and Risto Miikkulainen, *Learning basic navigation for personal satellite assistant using neuroevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1913–1920.

[282] Benjamin Skellett, Benjamin Cairns, Nicholas Geard, Bradley Tonkes, and Janet Wiles, *Maximally rugged nk landscapes contain the highest peaks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 579–584.

[283] Zbigniew Skolicki and Kenneth De Jong, *The influence of migration sizes and intervals on island models*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold,

Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1295–1302.

[284] James F. Smith, III, *Evolving fuzzy decision tree structure that adapts in real-time*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1737–1744.

[285] Artem Sokolov and Darrell Whitley, *Unbiased tournament selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1131–1138.

[286] Artem Sokolov, Darrell Whitley, and Monte Lunacek, *Alternative implementations of the griewangk function*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1589–1590.

[287] Andrea Soltoggio, *An enhanced ga to improve the search process reliability in tuning of control systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2165–2172.

[288] Lee Spector, Jon Klein, and Maarten Keijzer, *The push3 execution stack and the evolution of control*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1689–1696.

[289] Peter Spellward and Tim Kovacs, *On the contribution of gene libraries to artificial immune systems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 313–319.

[290] Christian Spieth, Felix Streichert, Nora Speer, and Andreas Zell, *Identifying valid solutions for the inference of regulatory networks*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M.

Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 469–470.

[291] Kenneth Stanley, Nate Kohl, Rini Sherony, and Risto Miikkulainen, *Neuroevolution of an automobile crash warning system*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1977–1984.

[292] Daniel Stevens, Sanjoy Das, and Bala Natarajan, *A multi-objective algorithm for ds-cdma code design based on the clonal selection principle*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2015–2020.

[293] Jason Stevens, Robert B. Heckendorn, and Terry Soule, *Exploiting disruption aversion to control code bloat*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1605–1612.

[294] Thomas Stibor, Philipp Mohr, Jonathan Timmis, and Claudia Eckert, *Is negative selection appropriate for anomaly detection?*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 321–328.

[295] Tobias Storch, *On the impact of objective function transformations on evolutionary and black-box algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 833–840.

[296] Andrew Stout and Lee Spector, *Validation of evolutionary activity metrics for long-term evolutionary dynamics*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 137–142.

[297] Hal Stringer and Annie S. Wu, *Behavior of finite population variable length genetic algorithms under random selection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1249–1255.

[298] Dirk Sudholt, *Crossover is provably essential for the ising model on trees*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1161–1167.

[299] Ashish Sureka and Peter R. Wurman, *Applying metaheuristic techniques to search the space of bidding strategies in combinatorial auctions*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2097–2103.

[300] Andrew Sutton, Huzefa Kagdi, Jonathan I. Maletic, and L. Gwenn Volkert, *Hybridizing evolutionary algorithms and clustering algorithms to find source-code clones*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1079–1080.

[301] Sean R. Szumlanski, Annie S. Wu, and Charles E. Hughes, *Collaborative interactive evolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2199–2200.

[302] Sam Talaie, Ryan Leigh, Sushil J. Louis, and Gary L. Raines, *Predicting mining activity with parallel genetic algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2149–2155.

[303] Ivan Tanev, *Learned mutation strategies in genetic programming for evolution and adaptation of simulated snakebot*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 687–694.

[304] Jing Tang, Meng Hiot Lim, Yew Soon Ong, and Meng Joo Er, *Solving large scale combinatorial optimization using pma-sls*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 621–628.

[305] Kai Wing Tang and Ray A. Jarvis, *From supervised ranking to evolving behaviours of a robotic team*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary

computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1325–1332.

[306] H. Terashima-Marín, E. J. Flores-Álvarez, and P. Ross, *Hyper-heuristics and classifier systems for solving 2d-regular cutting stock problems*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 637–643.

[307] Dirk Thierens, *An adaptive pursuit strategy for allocating operator probabilities*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1539–1546.

[308] Gloria Childress Townsend, Wade N. Hazel, and Rick Smock, *Using evolutionary computation methods to support analytical models for the evolution and maintenance of conditional strategies in chthamalus anisopoma*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 409–414.

[309] Kagan Tumer and Adrian Agogino, *Coordinating multi-rover systems: evaluation functions for dynamic and noisy environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 591–598.

[310] Sima Uyar and Gülşen Eryiğit, *Improvements to penalty-based evolutionary algorithms for the multi-dimensional knapsack problem using a gene-based adaptive mutation approach*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1257–1264.

[311] Vinod Valsalam, James Bednar, and Risto Miikkulainen, *Constructing good learners using evolved pattern generators*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 11–18.

[312] Saranyan A. Vigraham, John C. Gallagher, and Sanjay K. Boddhu, *Evolving analog controllers for correcting thermoacoustic instability in real hardware*, GECCO 2005: Proceedings of the 2005

conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 933–940.

[313] Dana Vrajitoru and Jason DeBoni, *Hybrid real-coded mutation for genetic algorithms applied to graph layouts*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1563–1564.

[314] James Alfred Walker and Julian Francis Miller, *Investigating the performance of module acquisition in cartesian genetic programming*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1649–1656.

[315] Zhi-Gang Wang, M. Rahman, and Yoke-San Wong, *Multi-niche crowding in the development of parallel genetic simulated annealing*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1555–1556.

[316] Stefan Wappler and Frank Lammermann, *Using evolutionary algorithms for the unit testing of object-oriented software*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1053–1060.

[317] Shinya Watanabe and Kazutoshi Sakakibara, *The effectiveness of multiobjective optimizer in single-objective optimization enviroment*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 829–830.

[318] Horst F. Wedde, Muddassar Farooq, Thorsten Pannenbaecker, Bjoern Vogel, Christian Mueller, Johannes Meth, and Rene Jeruschkat, *Beeadhoc: an energy efficient routing algorithm for mobile ad hoc networks inspired by bee behavior*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 153–160.

[319] Shimon Whiteson, Peter Stone, Kenneth O. Stanley, Risto Miikkulainen, and Nate Kohl, *Automatic feature selection in neuroevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1225–1232.

[320] P. Whiting, P. W. Poon, and J. N. Carter, *A genetic algorithm approach to the selection of near-optimal subsets from large sets*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2203–2204.

[321] Daan Wierstra, Faustino J. Gomez, and Jürgen Schmidhuber, *Modeling systems with internal state using evolino*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1795–1802.

[322] Kay C. Wiese, Andrew Hendriks, Alain Deschênes, and Belgacem Ben Youssef, *The impact of pseudorandom number quality on p-rnapredict, a parallel genetic algorithm for rna secondary structure prediction*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 479–480.

[323] Jonathan Wight and Yi Zhang, *An "ageing"operator and its use in the highly constrained topological optimization of hvac system design*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2075–2082.

[324] Nathan Williams and Melanie Mitchell, *Investigating the success of spatial coevolution*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 523–530.

[325] Garnett Wilson and Malcolm Heywood, *Use of a genetic algorithm in brill's transformation-based part-of-speech tagger*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2067–2073.

[326] Alden H. Wright and Sandeep Pulavarty, *On the convergence of an estimation of distribution algorithm based on linkage discovery and factorization*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 695–702.

[327] Jui-Yu Wu and Yun-Kung Chung, *Artificial immune system for solving generalized geometric problems: a preliminary results*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 329–336.

[328] Kai Xu, Sushil J. Louis, and Roberto C. Mancini, *A scalable parallel genetic algorithm for x-ray spectroscopic analysis*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 811–816.

[329] Kohsuke Yanai and Hitoshi Iba, *Probabilistic distribution models for eda-based gp*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1775–1776.

[330] Shengxiang Yang, *Memory-based immigrants for genetic algorithms in dynamic environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1115–1122.

[331] _____ , *Population-based incremental learning with memory scheme for changing environments*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 711–718.

[332] Ayse Selen Yilmaz and Annie S. Wu, *Preservation of genetic redundancy in the existence of developmental error and fitness assignment error*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1317–1324.

[333] Serkan Yilmaz, Kostadin Ivanov, and Samuel Levine, *Application of genetic algorithm to optimize burnable poison placement in pressurized water reactors*, GECCO 2005: Proceedings of the 2005

conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1477–1483.

[334] Yourim Yoon, Yong-Hyuk Kim, and Byung-Ro Moon, *An evolutionary lagrangian method for the 0/1 multiple knapsack problem*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 629–635.

[335] Borenstein Yossi and Riccardo Poli, *Information landscapes and the analysis of search algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1287–1294.

[336] Tian-Li Yu, Kumara Sastry, and David E. Goldberg, *Linkage learning, overlapping building blocks, and systematic strategy for scalable recombination*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1217–1224.

[337] Bo Yuan and Marcus Gallagher, *On the importance of diversity maintenance in estimation of distribution algorithms*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 719–726.

[338] Bo Yuan, Marcus Gallagher, and Stuart Crozier, *Mri magnet design: search space analysis, edas and a real-world problem with significant dependencies*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 2141–2148.

[339] Angel E. Muñoz Zavala, Arturo Hernández Aguirre, and Enrique R. Villa Diharce, *Constrained optimization via particle evolutionary swarm optimization algorithm (peso)*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 209–216.

[340] Emily M. Zechman and S. Ranji Ranjithan, *Multipopulation cooperative coevolutionary programming (mccp) to enhance design innovation*, GECCO 2005: Proceedings of the 2005

conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1641–1648.

[341] Yuan Zhan and John A. Clark, *Search-based mutation testing for simulink models*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 1061–1068.

[342] Byoung-Tak Zhang and Ha-Young Jang, *Molecular programming: evolving genetic programs in a test tube*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1761–1768.

[343] Chongshan Zhang and Khaled Rasheed, *Improving ga search reliability using maximal hyper-rectangle analysis*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1185–1192.

[344] Jun Zhang, Henry S. H. Chung, and Jinghui Zhong, *Adaptive crossover and mutation in genetic algorithms based on clustering technique*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 2, ACM Press, 25-29 June 2005, pp. 1577–1578.

[345] Yang Zhang and Peter I. Rockett, *Evolving optimal feature extraction using multi-objective genetic programming: a methodology and preliminary study on edge detection*, GECCO 2005: Proceedings of the 2005 conference on Genetic and evolutionary computation (Washington DC, USA) (Hans-Georg Beyer, Una-May O'Reilly, Dirk V. Arnold, Wolfgang Banzhaf, Christian Blum, Eric W. Bonabeau, Erick Cantu-Paz, Dipankar Dasgupta, Kalyanmoy Deb, James A. Foster, Edwin D. de Jong, Hod Lipson, Xavier Llora, Spiros Mancoridis, Martin Pelikan, Guenther R. Raidl, Terence Soule, Andy M. Tyrrell, Jean-Paul Watson, and Eckart Zitzler, eds.), vol. 1, ACM Press, 25-29 June 2005, pp. 795–802.