## Список литературы

[AB10a]

Matthew A. Addicoat and Zoe E. Brain. Using a meta-ga for parametric optimization of simple gas in the computational chemistry domain. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 823–824, Portland, Oregon, USA, 7-11 July 2010. ACM.

[AB10b]

Joshua E. Auerbach and Josh C. Bongard. Evolving cppns to grow three-dimensional physical structures. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 627–634, Portland, Oregon, USA, 7-11 July 2010. ACM.

[Abb10]

Hazem M. Abbas. Mixed-coded evolutionary algorithm for gaussian mixture maximum likelihood clustering with model selection. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 825–826, Portland, Oregon, USA, 7-11 July 2010. ACM.

[ABE10]

Douglas Adriano Augusto, Helio José Corrêa Barbosa, and Nelson Francisco Favilla Ebecken. Coevolutionary multi-population genetic programming for data classification. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 933–940, Portland, Oregon, USA, 7-11 July 2010. ACM.

[ABKN10]

Mohammed Azmi Al-Betar, Ahamad Tajudin Khader, and Farhad Nadi. Selection mechanisms in memory consideration for examination timetabling with harmony search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1203–1210, Portland, Oregon, USA, 7-11 July 2010. ACM.

[AFSS10]

Álvaro Fialho, Marc Schoenauer, and Michèle Sebag. Toward comparison-based adaptive operator selection. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 767–774, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [AH10a] Dirk V. Arnold and Nikolaus Hansen. Active covariance matrix adaptation for the (1+1)-cma-es. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 385–392, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [AH10b] Emrah Atilgan and Jianjun Hu. Efficient protein-ligand docking using sustainable evolutionary algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 211–212, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Aha10] Dilip P. Ahalpara. Improved forecasting of time series data of real system using genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 977–978, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [AL10] Phillipa Avery and Sushil Louis. Coevolving influence maps for spatial team tactics in a rts game. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 783–790, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [AMR+10] Muhammad Jamal Afridi, Salman Manzoor, Umer Rasheed, Mariam Ahmed, and Kunwar Faraz. Performance evaluation of evolutionary algorithms for road detection. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1331–1332, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [AMS+10] Fernando Alonso, Loïc Martínez, Agustín Santamaría, Aurora Pérez, and Juan Pedro Valente. Gggp-based method for modeling time series: operator selection, parameter optimization and expert evaluation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 989–990, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ANOK10] Youhei Akimoto, Yuichi Nagata, Isao Ono, and Shigenobu Kobayashi. Theoretical analysis of evolutionary computation on continuously differentiable functions. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard,

Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1401–1408, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [AR10]
- R. Muhammad Atif Azad and Conor Ryan. Abstract functions and lifetime learning in genetic programming for symbolic regression. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 893–900, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BAM10]
- Cruz E. Borges, Cesar L. Alonso, and Jose L. Montana. Model selection in genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 985–986, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BBB10]
- André M.S. Barreto, Heder S. Bernardino, and Helio J.C. Barbosa. Probabilistic performance profiles for the experimental evaluation of stochastic algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 751–758, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BCRM10]
- David F. Barrero, David Camacho, and María D. R-Moreno. Confidence intervals of success rates in evolutionary computation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 975–976, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BF10]
- Karl Bringmann and Tobias Friedrich. The maximum hypervolume set yields near-optimal approximation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 511–518, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BFBB10]
- Mohammad Behdad, Tim French, Luigi Barone, and Mohammed Bennamoun. On the problems of using learning classifier systems for fraud detection. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors,

GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1067–1068, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [BFN10] Rudolf Berghammer, Tobias Friedrich, and Frank Neumann. Set-based multi-objective optimization, indicators, and deteriorative cycles. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 495–502, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BH10a] Josh C. Bongard and Gregory S. Hornby. Guarding against premature convergence while accelerating evolutionary search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 111–118, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BH10b] Jeremy B. Brown and Manfred Huber. Pseudo-hierarchical ant-based clustering using a heterogeneous agent hierarchy and automatic boundary formation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 85–86, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BJ10] Justin Benjamin and Bryant A. Julstrom. Breaking ties with secondary fitness in a genetic algorithm for the bin packing problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 657–664, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BK10] Petr Buryan and Jiři Kubalik. Context-sensitive refinements for stochasticoptimization algorithms in inductive logic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1071–1072, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Bos10] Peter A.N. Bosman. The anticipated mean shift and cluster registration in mixture-based edas for multi-objective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 351–358, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [BSSV10] Jacques Bibai, Pierre Saveant, Marc Schoenauer, and Vincent Vidal. On the generality of parameter tuning in evolutionary planning. In Juergen Branke, Martin Pelikan,

Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 241–248, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [BZJ10] Urvesh Bhowan, Mengjie Zhang, and Mark Johnston. Auc analysis of the pareto-front using multi-objective gp for classification with unbalanced data. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 845–852, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CBM10] Brian D. Connelly, Benjamin E. Beckmann, and Philip K. McKinley. Resource abundance promotes the evolution of public goods cooperation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 143–150, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CBMO10] Jeff Clune, Benjamin E. Beckmann, Philip K. McKinley, and Charles Ofria. Investigating whether hyperneat produces modular neural networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 635–642, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CEH10] John Crofford, Brent E. Eskridge, and Dean F. Hougen. Applying the triple parameter hypothesis to maintenance scheduling. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 799–806, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CFJ10] Dara Curran, Eugene Freuder, and Thomas Jansen. Incremental evolution of local search heuristics. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 981–982, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CFL<sup>+</sup>10] Marco Ceriani, Fabrizio Ferrandi, Pier Luca Lanzi, Donatella Sciuto, and Antonino Tumeo. Multiprocessor systems-on-chip synthesis using multi-objective evolutionary computation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo

Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1267–1274, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [CH10a] Benjamin P. Carlson and Dean F. Hougen. Phenotype feedback genetic algorithm operators for heuristic encoding of snakes within hypercubes. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 791–798, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CH10b] Chung-Yao Chuang and Wen-Lian Hsu. Multivariate multi-model approach for globally multimodal problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 311–318, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CHZ10] Ziyu Chen, Zhongshi He, and Cheng Zhang. Particle swarm optimizer with self-adjusting neighborhoods. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 9–14, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CKM10] Yoon-Seok Choi, Bon-Ki Koo, and Byung-Ro Moon. Optimization of an image set by genetic feature selection for real-time photomosaics. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1309–1310, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CLA10] Francisco Chicano, Gabriel Luque, and Enrique Alba. Elementary landscape decomposition of the quadratic assignment problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1425–1432, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CRK10] Alexander P. Conrad, Robert S. Roos, and Gregory M. Kapfhammer. Empirically studying the role of selection operators duringsearch-based test suite prioritization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1373–1380, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [CRMA+10] J. Manuel Colmenar, José L. Risco-Martín, David Atienza, Oscar Garnica, J. Ignacio Hidalgo, and Juan Lanchares. Improving reliability of embedded systems through dynamic memory manager optimization using grammatical evolution. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1227–1234, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CRZ10] Andreas M. Chwatal, Günther R. Raidl, and Michael Zöch. Fitting multi-planet transit models to photometric time-data series by evolution strategies. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 377–384, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CT10] Jason E. Cook and Daniel R. Tauritz. An exploration into dynamic population sizing. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 807–814, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [CW10] Robert Collier and Mark Wineberg. Approaches to multidimensional scaling for adaptive landscape visualization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 649–656, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [dAGM10] Bernadete Maria de Mendonca Neta, Gustavo Henrique Diniz Araujo, Frederico Gadelha Guimaraes, and Renato Cardoso Mesquita. A hybrid genetic algorithm for automatic graph drawing based on the topology-shape-metric approach. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 743–750, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DDG10] Frederick Ducatelle, Gianni A. Di Caro, and Luca M. Gambardella. Cooperative self-organization in a heterogeneous swarm robotic system. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 87–94, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [ddS10] Ricardo de A. Araújo, Adriano L.I. de Oliveira, and Sergio C.B. Soares. A covariance matrix adaptation based evolutionary methodology for phase adjustment in financial time series forecasting. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1315–1316, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DES10] Erkan Doğan, Ferhat Erdal, and Mehmet Polat Saka. Optimum design of grillage systems under code provisions using particle swarm optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 289–290, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DJ10] Benjamin Doerr and Daniel Johannsen. Edge-based representation beats vertex-based representation in shortest path problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 759–766, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [dLF10] Paulo S.G. de Mattos Neto, Aranildo R. Lima Junior, and Tiago A.E. Ferreira. Time series forecasting using a perturbative intelligent system. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1477–1478, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DLN+10] D. Dumitrescu, Rodica Ioana Lung, Réka Nagy, Daniela Zaharie, and Attila Bartha. Exploring evolutionary detected fuzzy equilibria: a link between normative theory and real life. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 539–540, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Dow10] Keith L. Downing. The baldwin effect in developing neural networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 555–562, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DP10] Kalyanmoy Deb and Nikhil Padhye. Development of efficient particle swarm optimizers by using concepts from evolutionary algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke,

Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 55–62, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [DSS<sup>+</sup>10] Stephano Di Carlo, Ernesto Sanchez, Alberto Scionti, Giovanni Squillero, Alberto Paolo Tonda, and Matteo Falasconi. Towards drift correction in chemical sensors using an evolutionary strategy. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1329–1330, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DZB10] Carlton Downey, Mengjie Zhang, and Will N. Browne. New crossover operators in linear genetic programming for multiclass object classification. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 885–892, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [DZZ10] Roberto De Prisco, Gianluca Zaccagnino, and Rocco Zaccagnino. Evobasscomposer: a multi-objective genetic algorithm for 4-voice compositions. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 817–818, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [EAMGM<sup>+</sup>10] Anna I. Esparcia-Alcazár, Anais Martínez-García, Antonio M. Mora, J. J. Merelo, and Pablo García-Sánchez. Genetic evolution of fuzzy finite state machines to control bots in a first-person shooter game. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 829–830, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [EPV10] Ralph Evins, Philip Pointer, and Ravi Vaidyanathan. Configuration of a genetic algorithm for multi-objective optimisation of solar gain to buildings. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1327–1328, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Fer10] Chrisantha Fernando. Neuronal replicators solve the stability-plasticity dilemma. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and

Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 153–154, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [FKB10] María A. Franco, Natalio Krasnogor, and Jaume Bacardit. Speeding up the evaluation of evolutionary learning systems using gpgpus. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1039–1046, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [FLFW10] Ethan Fast, Claire Le Gouse, Stephanie Forrest, and Westley Weimer. Designing better fitness functions for automated program repair. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 965–972, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [FP10] Francesco Folino and Clara Pizzuti. Multiobjective evolutionary community detection for dynamic networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 535–536, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [FS10] Blair Foster and Anil Somayaji. Object-level recombination of commodity applications. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 957–964, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [FVG<sup>+</sup>10] Antonella Farinaccio, Leonardo Vanneschi, Mario Giacobini, Giancarlo Mauri, and Paolo Provero. On the use of genetic programming for the prediction of survival in cancer. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 163–170, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GAFC10] Wenyin Gong, Álvaro Fialho, and Zhihua Cai. Adaptive strategy selection in differential evolution. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 409–416, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [GCS10] Aaron Garrett, Zizhong Chen, and Daniel Eric Smith. Constructing numerically stable real number codes using evolutionary computation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1163–1170, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GKO10] Heather J. Goldsby, David B. Knoester, and Charles Ofria. Evolution of division of labor in genetically homogenous groups. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 135–142, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GLMOB10] Edgar Galván-López, James McDermott, Michael O'Neill, and Anthony Brabazon. Towards an understanding of locality in genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 901–908, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GM10] Severino F. Galan and Ole J. Mengshoel. Generalized crowding for genetic algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 775–782, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GMLT+10] Carlos García-Martínez, Claudio Lima, Jamie Twycross, Natalio Krasnogor, and Manuel Lozano. P system model optimisation by means of evolutionary based search algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 187–194, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GMT+10] Eloy Gonzales, Shingo Mabu, Karla Taboada, Kotaro Hirasawa, and Kaoru Shimada. Pruning association rules using statistics and genetic relation algoritm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 419–420, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [GS10] Zbysek Gajda and Lukas Sekanina. When does cartesian genetic programming minimize the phenotype size implicitly? In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V.

Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 983–984, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [GSY<sup>+</sup>10] Tobias Glasmachers, Tom Schaul, Sun Yi, Daan Wierstra, and Jürgen Schmidhuber. Exponential natural evolution strategies. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 393–400, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [HBD<sup>+</sup>10] Emily Rose Holzinger, Carrie C. Buchanan, Scott M. Dudek, Eric C. Torstenson, Stephen D. Turner, and Marylyn D. Ritchie. Initialization parameter sweep in athena: optimizing neural networks for detecting gene-gene interactions in the presence of small main effects. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 203–210, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [HBL10] Anke K. Hutzschenreuter, Peter A.N. Bosman, and Han La Poutré. Enhanced hospital resource management using anticipatory policies in online dynamic multi-objective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 541–542, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [HHSR10] Torsten Hildebrandt, Jens Heger, and Bernd Scholz-Reiter. Towards improved dispatching rules for complex shop floor scenarios: a genetic programming approach. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 257–264, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [HL10] Jonathan D. Hiller and Hod Lipson. Morphological evolution of freeform robots. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 151–152, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [HMB10] Simon Harding, Julian F. Miller, and Wolfgang Banzhaf. Self modifying cartesian genetic programming: finding algorithms that calculate pi and e to arbitrary precision. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen,

Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 579–586, Portland, Oregon, USA, 7-11 July 2010. ACM.

[HMW10]

Mathew Hall, Phil McMinn, and Neil Walkinshaw. Superstate identification for state machines using search-based clustering. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1381–1388, Portland, Oregon, USA, 7-11 July 2010. ACM.

[HOOMRV10]

Juan Arturo Herrera-Ortiz, Carlos Oliver-Morales, and Katya Rodríguez-Vázquez. Amount and type of information: a ga-hardness taxonomy. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 835–836, Portland, Oregon, USA, 7-11 July 2010. ACM.

[HP10]

Mark W. Hauschild and Martin Pelikan. Network crossover performance on nk landscapes and deceptive problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 713–720, Portland, Oregon, USA, 7-11 July 2010. ACM.

[HS10]

Christian Horoba and Dirk Sudholt. Ant colony optimization for stochastic shortest path problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1465–1472, Portland, Oregon, USA, 7-11 July 2010. ACM.

[hZZ10]

Jing hui Zhong and Jun Zhang. A robust estimation of distribution algorithm for power electronic circuits design. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 319–326, Portland, Oregon, USA, 7-11 July 2010. ACM.

[IJHR10]

Benjamin Inden, Yaochu Jin, Robert Haschke, and Helge Ritter. Neatfields: evolution of neural fields. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 645–646, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [Ior10] Serban Iordache. Consultant-guided search: a new metaheuristic for combinatorial optimization problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 225–232, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ISTN10] Hisao Ishibuchi, Yuji Sakane, Noritaka Tsukamoto, and Yusuke Nojima. Simultaneous use of different scalarizing functions in moea/d. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 519–526, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [IT10] Jack F. Shepherd II and Kagan Tumer. Robust neuro-control for a micro quadrotor. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1131–1138, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [JC10a] Adam C. Jensen and Betty H.C. Cheng. On the use of genetic programming for automated refactoring and the introduction of design patterns. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1341–1348, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [JC10b] He Jiang and Yudong Chen. An efficient algorithm for generalized minimum spanning tree problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 217–224, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [JD10] Jiři Jaros and Vaclav Dvorak. Evolutionary-based conflict-free scheduling of collective communications on spidergon nocs. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1171–1178, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [JKL10] Daniel Johannsen, Piyush P. Kurur, and Johannes Lengler. Can quantum search accelerate evolutionary algorithms? In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert,

Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1433–1440, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [JKN10] Ulf Johansson, Rikard König, and Lars Niklasson. Genetic rule extraction optimizing brier score. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1007–1014, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [jYZ10] Wei jie Yu and Jun Zhang. Pheromone-distribution-based adaptive ant colony system. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 31–38, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [JZ10] Thomas Jansen and Christine Zarges. Aging beyond restarts. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 705–712, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KBW10] Jiří Kubalik, Petr Buryan, and Libor Wagner. Solving the dna fragment assembly problem efficiently using iterative optimization with evolved hypermutations. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 213–214, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KD10] Oliver Kramer and Holger Danielsiek. Dbscan-based multi-objective niching to approximate equivalent pareto-subsets. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 503–510, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KDS10] Uday Kamath, Kenneth A. De Jong, and Amarda Shehu. Selecting predictive features for recognition of hypersensitive sites of regulatory genomic sequences with an evolutionary algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 179–186, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [KGM10] David B. Knoester, Heather J. Goldsby, and Philip K. McKinley. Neuroevolution of mobile ad hoc networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 603–610, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KGS10] Jan Koutnik, Faustino Gomez, and Jürgen Schmidhuber. Evolving neural networks in compressed weight space. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 619–626, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KKB10] Thomas Kremmel, Jiří Kubalik, and Stefan Biffl. Multiobjective evolutionary algorithm for software project portfolio optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1389–1390, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KKL10] Steven O. Kimbrough, Ann Kuo, and Hoong Chuin Lau. Effective heuristic methods for finding non-optimal solutions of interest in constrained optimization models. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 295–296, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KLL10] Viktor M. Kureichik, Boris K. Lebedev, and Oleg B. Lebedev. Hybrid evolutionary algorithm of planning vlsi. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 821–822, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KLNO10] Timo Kötzing, Per Kristian Lehre, Frank Neumann, and Pietro Simone Oliveto. Ant colony optimization and the minimum cut problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1393–1400, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KMD10] Sylvain Koos, Jean-Baptiste Mouret, and Stéphane Doncieux. Crossing the reality gap in evolutionary robotics by promoting transferable controllers. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P

Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 119–126, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [KMM10] Keehyung Kim, RI (Bob) McKay, and Byung-Ro Moon. Multiobjective evolutionary algorithms for dynamic social network clustering. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1179–1186, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [KT10] Matt Knudson and Kagan Tumer. Coevolution of heterogeneous multi-robot teams. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 127–134, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LA10] Gabriel Luque and Enrique Alba. Selection pressure and takeover time of distributed evolutionary algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1083–1088, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LC10] Darrell F. Lochtefeld and Frank W. Ciarallo. Deterministic helper-objective sequences applied to job-shop scheduling. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 431–438, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LCLL10] Leung-Yau Lo, Tak-Ming Chan, Kin-Hong Lee, and Kwong-Sak Leung. Challenges rising from learning motif evaluation functions using genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 171–178, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LCTMRVR10] Eunice López-Camacho, Hugo Terashima-Marín, Peter Ross, and Manuel Valenzuela-Rendón. Problem-state representations in a hyper-heuristic approach for the 2d irregular bpp. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual

conference on Genetic and evolutionary computation, pages 297–298, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [LH10] Peter Lichodzijewski and Malcolm I. Heywood. Symbiosis, complexification and simplicity under gp. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 853–860, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LIS10] Manuel Lopez-Ibanez and Thomas Stuetzle. The impact of design choices of multiobjective antcolony optimization algorithms on performance: an experimental study on the biobjective tsp. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 71–78, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LM10] Seung-Kyu Lee and Byung-Ro Moon. A new modular genetic programming for finding attractive technical patterns in stock markets. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1219–1226, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LmHZ10] Ying Lin, Xiao min Hu, and Jun Zhang. An ant-colony-system-based activity scheduling method for the lifetime maximization of heterogeneous wireless sensor networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 23–30, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LNA10] Hoang N. Luong, Hai T.T. Nguyen, and Chang Wook Ahn. Entropy-based substructural local search for the bayesian optimization algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 335–342, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LRS10] Clemens Lode, Urban Richter, and Hartmut Schmeck. Adaption of xcs to multi-learner predator/prey scenarios. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1015–1022, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [LS10a] Jörg Lässig and Dirk Sudholt. The benefit of migration in parallel evolutionary algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1105–1112, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LS10b] Joel Lehman and Kenneth O. Stanley. Revising the evolutionary computation abstraction: minimal criteria novelty search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 103–110, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LSS10] Ilya Loshchilov, Marc Schoenauer, and Michèle Sebag. A mono surrogate for multiobjective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 471–478, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LT10a] Nyree Lemmens and Karl Tuyls. Stigmergic landmark routing: a routing algorithm for wireless mobile ad-hoc networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 47–54, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LT10b] Maciej Liśkiewicz and Johannes Textor. Negative selection algorithms without generating detectors. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1047–1054, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LW10] Per Kristian Lehre and Carsten Witt. Black-box search by unbiased variation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1441–1448, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LYY10] Ta-Chun Lien, Tian-Li Yu, and Ying-Shiuan You. Co-evolution of cooperative strategies under egoism. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert,

Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 697–704, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [LZ10] K. M. Leung and Xi Zhang. Discrete versus continuous parametrization of bank credit rating systems optimization using differential evolution. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 265–272, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LZJ<sup>+</sup>10] Ruochen Liu, Wei Zhang, Licheng Jiao, Fang Liu, and Jingjing Ma. A sphere-dominance based preference immune-inspired algorithm for dynamic multi-objective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 423–430, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [LZS+10] Miqing Li, Jinhua Zheng, Ruimin Shen, Ke Li, and Qizhao Yuan. A grid-based fitness strategy for evolutionary many-objective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 463-470, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Man10] Edward P. Manning. Coevolution in a large search space using resource-limited nash memory. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 999–1006, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MB10] Alexander Melkozerov and Hans-Georg Beyer. On the analysis of self-adaptive evolution strategies on elliptic model: first results. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 369–376, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MD10] Christie Myburgh and Kalyanmoy Deb. Evolutionary algorithms in large-scale open pit mine scheduling. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1155–1162, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [MDG10] Jean-Baptiste Mouret, Stéphane Doncieux, and Benoît Girard. Importing the computational neuroscience toolbox into neuro-evolution-application to basal ganglia. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 587–594, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ME10] Henrique G. Momm and Greg Easson. Population restarting: a study case of feature extraction from remotely sensed imagery using textural information. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 973–974, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MFL<sup>+</sup>10] Aruanda S.G. Meiguins, Alex A. Freitas, Robert C. Limao, Samuel F.S. Junior, and Bianchi S. Meiguins. An estimation of distribution algorithm for the automatic generation of clustering algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1069–1070, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MGBM10] Luis Martí, Jesús García, Antonio Berlanga, and José M. Molina. Moving away from error-based learning in multi-objective estimation of distribution algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 545–546, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MGDI10] David Mosnier, Frédéric Gillot, Antoine Ducloux, and Mohamed Ichchou. Integrated pre-design step methodology based onmulti-objective evolutionary optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1317–1318, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MH10] Hirotaka Moriguchi and Shinichi Honiden. Sustaining behavioral diversity in neat. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 611–618, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [MMR10] Juan J. Merelo, Antonio M. Mora, and Thomas P. Runarsson. Beating exhaustive search at its own game: revisiting evolutionary mastermind. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 291–292, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MOPBM10] Núria Macià, Albert Orriols-Puig, and Ester Bernadó-Mansilla. In search of targeted-complexity problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1055–1062, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MPR10] Elijah Mayfield and Carolyn Penstein-Rosé. Using feature construction to avoid large feature spaces in text classification. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1299–1306, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MRN10] Elizabeth Montero, María-Cristina Riff, and Bertrand Neveu. An evaluation of off-line calibration techniques for evolutionary algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 299–300, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MS10a] Haiping Ma and Dan Simon. Biogeography-based optimization with blended migration for constrained optimization problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 417–418, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MS10b] Michael McMullin and Terence Soule. Constant versus variable arity operators in genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 987–988, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MS10c] Timothy Meekhof and Terence Soule. Noise pressure: systematic overestimation of population fitness in genetic algorithms with noisy fitness functions. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill,

Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 833–834, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [MVM10]
- Luca Manzoni, Leonardo Vanneschi, and Giancarlo Mauri. Definition of a crossover based distance for genetic algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1473–1474, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [MZB10]
- Ammar W. Mohemmed, Mengjie Zhang, and Will N. Browne. Particle swarm optimisation for outlier detection. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 83–84, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [NKAB10]
- Farhad Nadi, Ahamad Tajudin Khader, and Mohammed Azmi Al-Betar. Adaptive genetic algorithm using harmony search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 819–820, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [NLA10]
- Hai T.T. Nguyen, Hoang N. Luong, and Chang Wook Ahn. Entropy measurement-based estimation model for bayesian optimization algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 343–350, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [NSHR10]
- Amin Nikanjam, Hadi Sharifi, B. Hoda Helmi, and Adel Rahmani. A new dsm clustering algorithm for linkage groups identification. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 367–368, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [NSW10]
- Frank Neumann, Dirk Sudholt, and Carsten Witt. A few ants are enough: Aco with iteration-best update. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 63–70, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [OCHS10] Patricia Ortegon-Cano, Diego A. Hartasanchez, and Christopher R. Stephens. Why recombination should be adaptive. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 831–832, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [OPLG10] Albert Orriols-Puig, Xavier Llorà, and David E. Goldberg. How xcs deals with rarities in domains with continuous attributes. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1023–1030, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [OS10] Mirela Ovreiu and Dan Simon. Biogeography-based optimization of neuro-fuzzy system parameters for diagnosis of cardiac disease. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1235–1242, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [PB10] Gerulf K.M. Pedersen and Martin V. Butz. Evolving robust controller parameters using covariance matrix adaptation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1251–1258, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [PD10] Nikhil Padhye and Kalyanmoy Deb. Evolutionary multi-objective optimization and decision making for selective laser sintering. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1259–1266, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Pel10] Martin Pelikan. Nk landscapes, problem difficulty, and hybrid evolutionary algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 665–672, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [PJ10] Marcin L. Pilat and Christian Jacob. Evolution of vision capabilities in embodied virtual creatures. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo

Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 95–102, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [PLd10] Cassio L. Pennachin, Moshe Looks, and Joao A. de Vasconcelos. Robust symbolic regression with affine arithmetic. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 917–924, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [PRW10] Mike Preuss, Günter Rudolph, and Simon Wessing. Tuning optimization algorithms for real-world problems by means of surrogate modeling. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 401–408, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [RB10] Edgar Reehuis and Thomas Bäck. Mixed-integer evolution strategy using multiobjective selection applied to warehouse design optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1187–1194, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [RDS<sup>+</sup>10] Sohini Roychoudhury, Sanjoy Das, Caterina Scoglio, Swagatam Das, Bijaya K. Panigrahi, and Shyyam S. Pattnaik. Mitigation strategies in epidemics: evolutionary optimization using a hierarchy of objective functions. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1325–1326, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [RF10] Zhigang Ren and Zuren Feng. An ant colony optimization approach to the multiple-choice multidimensional knapsack problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 281–288, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [RLS10] Sebastian Risi, Joel Lehman, and Kenneth O. Stanley. Evolving the placement and density of neurons in the hyperneat substrate. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 563–570, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [RP10] Elizabeth Radetic and Martin Pelikan. Spurious dependencies and eda scalability. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 303–310, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [RRM10] Padmini Rajagopalan, Aditya Rawal, and Risto Miikkulainen. Emergence of competitive and cooperative behavior using coevolution. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1073–1074, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SAGM10] Nicholas A. Sinnott-Armstrong, Casey S. Greene, and Jason H. Moore. Fast genome-wide epistasis analysis using ant colony optimization for multifactor dimensionality reduction analysis on graphics processing units. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 215–216, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SC10] Deepak Sharma and Pierre Collet. An archived-based stochastic ranking evolutionary algorithm (asrea) for multi-objective optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 479–486, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SDRN10] Giovanni Stracquadanio, Concetta Drago, Vittorio Romano, and Giuseppe Nicosia. Multi-objective optimization of doping profile in semiconductor design. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1243–1250, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SFHK10] Toshiharu Sugawara, Kensuke Fukuda, Toshio Hirotsu, and Satoshi Kurihara. Adaptive probabilistic task allocation in large-scale multi-agent systems and its evaluation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1311–1312, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SGC10] Chi Su, Yang Gao, and Chun Cao. Learning classifier system using both labeled and unlabeled data. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold,

Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 1065–1066, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [SGHAVD10] Rogelio Salinas-Gutiérrez, Arturo Hernández-Aguirre, and Enrique R. Villa-Diharce. D-vine eda: a new estimation of distribution algorithm based on regular vines. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 359–366, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SH10a] Kaoru Shimada and Kotaro Hirasawa. A method of association rule analysis for incomplete database using genetic network programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1115–1122, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SH10b] Terence Soule and Robert B. Heckendorn. A developmental algorithm for multi-agent swarms with scalable hierarchies. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 647–648, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SJA10] Sarah Salim, Mohsin Javed, and Ali Hammad Akbar. Honey-bee dancing-inspired architecture for fault tolerance in wireless sensor networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 79–80, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SJS10] Till Steiner, Yaochu Jin, and Bernhard Sendhoff. Evolving heterochrony for cellular differentiation using vector field embryogeny. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 571–578, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SL10] Michael D. Schmidt and Hod Lipson. Age-fitness pareto optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and

evolutionary computation, pages 543–544, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [SM10] Jacob Schrum and Risto Miikkulainen. Evolving agent behavior in multiobjective domains using fitness-based shaping. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 439–446, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SP10] Alejandro Sierra and Vicente Ponsoda. Shorter, more reliable and valid tests by means of a genetic algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1307–1308, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SR10] Wolfgang Steitz and Franz Rothlauf. Solving ocst problems with problem-specific guided local search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 301–302, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SRR10] Ofer M. Shir, Jonathan Roslund, and Herschel Rabitz. Forced optimal covariance adaptive learning: modified cma-es for efficient hessian determination. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 421–422, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SS10] Forrest Stonedahl and Susa H. Stonedahl. Heuristics for sampling repetitions in noisy landscapes with fitness caching. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 273–280, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SSB10] Swagato Sanyal, Raja S, and Somenath Biswas. Necessary and sufficient conditions for success of the metropolis algorithm for optimization. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1417–1424, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SSN10] Mikiko Sato, Yuji Sato, and Mitaro Namiki. Proposal of a multi-core processor architecture for effective evolutionary computation. In Juergen Branke, Martin

Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1321–1322, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [ST10] Max Salichon and Kagan Tumer. A neuro-evolutionary approach to micro aerial vehicle control. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1123–1130, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [SW10] Matthijs Snel and Shimon Whiteson. Multi-task evolutionary shaping without prespecified representations. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1031–1038, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TADD10] Rupesh Tulshyan, Ramnik Arora, Kalyanmoy Deb, and Joydeep Dutta. Investigating ea solutions for approximate kkt conditions in smooth problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 689–696, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TH10] Cem C. Tutum and Jesper H. Hattel. Multi-objective optimization of process parameters in friction stir welding. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1323–1324, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TI10] Makoto Tanji and Hitoshi Iba. Conbreo: a music performance rendering system using hybrid approach of iec and automated evolution. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1275–1282, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TKMT10] Martin A. Trefzer, Tuze Kuyucu, Julian F. Miller, and Andy M. Tyrrell. Image compression of natural images using artificial gene regulatory networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and

 $evolutionary\ computation,$  pages 595–602, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [TLLV10] Leonardo Trujillo, Pierrick Legrand, and Jacques Lévy-Véhel. The estimation of hölderian regularity using genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 861–868, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TS10] Carlos D. Toledo-Suárez. A first assessment of the use of extended relational alphabets in accuracy classifier systems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 991–998, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TSMH10] Aram Ter-Sarkisov, Stephen R. Marsland, and Barbara R. Holland. The k-bit-swap: a new genetic algorithm operator. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 815–816, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [TTCY10] Chun-Wei Tsai, Shih-Pang Tseng, Ming-Chao Chiang, and Chu-Sing Yang. A framework for accelerating metaheuristics via pattern reduction. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 293–294, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [UBZ10] Tamara Ulrich, Johannes Bader, and Eckart Zitzler. Integrating decision space diversity into hypervolume-based multiobjective search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 455–462, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [UG10] Prakarn Unachak and Erik Goodman. Solving multiobjective flexible job-shop scheduling using an adaptive representation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 737–742, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [UHOM10] Nguyen Quang Uy, Nguyen Xuan Hoai, Michael O'Neill, and Bob McKay. Semantics based crossover for boolean problems. In Juergen Branke, Martin Pelikan, Enrique

Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 869–876, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [UM10] Ryan J. Urbanowicz and Jason H. Moore. The application of michigan-style learning classifiersystems to address genetic heterogeneity and epistasisin association studies. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 195–202, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [VCM10] Leonardo Vanneschi, Daniele Codecasa, and Giancarlo Mauri. An empirical comparison of parallel and distributed particle swarm optimization methods. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 15–22, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [VHI10] Thomas Voß, Nikolaus Hansen, and Christian Igel. Improved step size adaptation for the mo-cma-es. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 487–494, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Vra10] Dana Vrajitoru. Shared memory genetic algorithms in a multi-agent context. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1097–1104, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [VS10] Phillip Verbancsics and Kenneth O. Stanley. Transfer learning through indirect encoding. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 547–554, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [VTN10] Fatemeh Vafaee, György Turán, and Peter C. Nelson. Optimizing genetic operator rates using a markov chain model of genetic algorithms. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry,

Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 721–728, Portland, Oregon, USA, 7-11 July 2010. ACM.

 $[VVB^{+}10a]$ Kalyan Veeramachaneni, Katya Vladislavleva, Matt Burland, Jason Parcon, and Una-May O'Reilly. Evolutionary optimization of flavors. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1291–1298, Portland, Oregon, USA, 7-11 July 2010. ACM.

 $[VVB^{+}10b]$ Katya Vladislavleva, Kalyan Veeramachaneni, Matt Burland, Jason Parcon, and Una-May O'Reilly. Knowledge mining with genetic programming methods for variable selection in flavor design. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 941–948, Portland, Oregon, USA, 7-11 July 2010. ACM.

[VVM10] Andrea Valsecchi, Leonardo Vanneschi, and Giancarlo Mauri. Optimization speed and fair sets of functions. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1475–1476, Portland, Oregon, USA, 7-11 July 2010. ACM.

[WB10a] Garnett Wilson and Wolfgang Banzhaf. Interday foreign exchange trading using linear genetic programming. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1139–1146, Portland, Oregon, USA, 7-11 July 2010. ACM.

[WB10b] Shelly Xiaonan Wu and Wolfgang Banzhaf. A hierarchical cooperative evolutionary algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 233-240, Portland, Oregon, USA, 7-11 July 2010. ACM.

[WCAL10] L. Darrell Whitley, Francisco Chicano, Enrique Alba, and Francisco Luna. Elementary landscapes of frequency assignment problems. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz. Jeff Clune, Myra Cohen, Kalvanmov Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1409–1416, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [WGD10] Maxwell Walton, Gary Grewal, and Gerarda Darlington. Parallel fpga-based implementation of scatter search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1075–1082, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [Win10] Andreas Windisch. Search-based test data generation from stateflow statecharts. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1349–1356, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [WLW10] Ka-Chun Wong, Kwong-Sak Leung, and Man-Hon Wong. Protein structure prediction on a lattice model via multimodal optimization techniques. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 155–162, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [WT10a] Jun Wang and Ying Tan. A novel genetic programming based morphological image analysis algorithm. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 979–980, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [WT10b] Josh L. Wilkerson and Daniel Tauritz. Coevolutionary automated software correction. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1391–1392, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [WXY10] Yun Wen, Hua Xu, and Jiadong Yang. A heuristic-based hybrid genetic algorithm for heterogeneous multiprocessor scheduling. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 729–736, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [XCR10] Zhihong Xu, Myra B. Cohen, and Gregg Rothermel. Factors affecting the use of genetic algorithms in test suite augmentation. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van

Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1365—1372, Portland, Oregon, USA, 7-11 July 2010. ACM.

- [YAU10] Roi Yehoshua, Mireille Avigal, and Ron Unger. Analysis of the effects of lifetime learning on population fitness using vose model. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 681–688, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [YXCJ10] Jiadong Yang, Hua Xu, Yunpeng Cai, and Peifa Jia. Effective structure learning for eda via l1-regularizedbayesian networks. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 327–334, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [YYL10] Ying-Shiuan You, Tain-Li Yu, and Ta-Chun Lien. Psychological preference-based optimization framework on the nurse scheduling problem. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1319–1320, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ZAD<sup>+</sup>10] Yuanyuan Zhang, Enrique Alba, Juan J. Durillo, Sigrid Eldh, and Mark Harman. Today/future importance analysis. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1357–1364, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ZC10] Saúl Zapotecas Martínez and Carlos A. Coello Coello. A multi-objective meta-model assisted memetic algorithm with non gradient-based local search. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 537–538, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ZT10] You Zhou and Ying Tan. Particle swarm optimization with triggered mutation and its implementation based on gpu. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 1–8, Portland, Oregon, USA, 7-11 July 2010. ACM.
- [ZV10] Amelia Zafra and Sebastián Ventura. Grammar guided genetic programming for multiple instance learning: an experimental study. In Juergen Branke, Martin Pelikan,

Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, *GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation*, pages 909–916, Portland, Oregon, USA, 7-11 July 2010. ACM.

[ZZ10]

Zhi-Hui Zhan and Jun Zhang. Self-adaptive differential evolution based on pso learning strategy. In Juergen Branke, Martin Pelikan, Enrique Alba, Dirk V. Arnold, Josh Bongard, Anthony Brabazon, Juergen Branke, Martin V. Butz, Jeff Clune, Myra Cohen, Kalyanmoy Deb, Andries P Engelbrecht, Natalio Krasnogor, Julian F. Miller, Michael O'Neill, Kumara Sastry, Dirk Thierens, Jano van Hemert, Leonardo Vanneschi, and Carsten Witt, editors, GECCO '10: Proceedings of the 12th annual conference on Genetic and evolutionary computation, pages 39–46, Portland, Oregon, USA, 7-11 July 2010. ACM.