

Список литературы

- [1] F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, editors, *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3449 of *LNCS*, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [2] J. S. Aguilar-Ruiz and F. Divina, Evolutionary Biclustering of Microarray Data, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 1–10, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [3] N. P. Bidargaddi, M. Chetty, and J. Kamruzzaman, A Fuzzy Viterbi Algorithm for Improved Sequence Alignment and Searching of Proteins, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 11–21, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [4] J. Błażewicz, M. Borowski, P. Formanowicz, and M. Stobiecki, Tabu search method for determining sequences of amino acids in long polypeptides, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 22–32, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [5] S. Bleuler and E. Zitzler, Order Preserving Clustering over Multiple Time Course Experiments, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 33–43, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [6] W. S. Bush, A. A. Motsinger, S. M. Dudek, and M. D. Ritchie, Can neural network constraints in GP provide power to detect genes associated with human disease?, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 44–53, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [7] V. Cutello, G. Narzisi, and G. Nicosia, A Class of Pareto Archived Evolution Strategy Algorithms using Immune inspired Operators for Ab-Initio Protein Structure Prediction, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 54–63, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [8] A. Krishna, A. Narayanan, and E. C. Keedwell, Neural networks and temporal gene expression data, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 64–73, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [9] E. Marchiori and M. Sebag, Bayesian learning with local support vector machines for cancer classification with gene expression data, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 74–83, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.

- [10] P. Moscato, R. Berretta, M. Hourani, A. Mendes, and C. Cotta, Genes Related with Alzheimer's Disease: A Comparison of Evolutionary Search, Statistical and Integer Programming Approaches, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 84–94, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [11] K. Pulasinghe and J. C. Rajapakse, Syntactic Approach to Predict Membrane Spanning Regions of Transmembrane Proteins, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 95–104, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [12] D. F. Tsunoda, H. S. Lopes, and A. A. Freitas, An evolutionary approach for motif discovery and transmembrane protein classification, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 105–114, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [13] J. Yang, S. Wongsu, V. Kadiramanathan, S. A. Billings, and P. C. Wright, Differential Evolution and Its Application to Metabolic Flux Analysis, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 115–124, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [14] Y.-C. Chen, J.-M. Yang, C.-H. Tsai, and C.-Y. Kao, GEMPLS: A New QSAR Method Combining Generic Evolutionary Method and Partial Least Squares, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 125–135, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [15] H. F. Wedde and M. Farooq, A Performance Evaluation Framework for Nature Inspired Routing Algorithms, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 136–146, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [16] D. E. Torres D. and C. M. Rocco S., Empirical Models Based on Hybrid Intelligent Systems for Assessing the Reliability of Complex Networks, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 147–155, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [17] D. Reichelt, P. Gmilkowsky, and S. Linser, A Study of an Iterated Local Search on the Reliable Communication Networks Design Problem, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 156–165, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [18] L. Fang and L. Le-Ping, Unsupervised Anomaly Detection Based On An Evolutionary Artificial Immune Network, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO,*

- EvoCOMNET*, *EvoHOT*, *EvoIASP*, *EvoMUSART*, *EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 166–174, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [19] B. Karaoglu, H. Topcuoglu, and F. Gergen, Evolutionary Algorithms for Location Area Management, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 175–184, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [20] L. Sekanina, Evolutionary Design of Gate-Level Polymorphic Digital Circuits, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 185–194, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [21] H. Liu, J. F. Miller, and A. M. Tyrrell, A Biological Development model for the Design of Robust Multiplier, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 195–204, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [22] E. Sanchez, M. S. Reorda, and G. Squillero, Automatic completion and refinement of verification sets for microprocessor cores, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 205–214, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [23] M. Tang and A. Sebastian, A Genetic Algorithm for VLSI Floorplanning Using O-Tree Representation, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 215–224, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [24] M. Oltean, Evolving reversible circuits for the even-parity problem, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 225–234, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [25] B. Scheuermann and M. Middendorf, Counter-based Ant Colony Optimization as a Hardware-oriented Meta-Heuristic, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 235–244, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [26] L. Manetta, L. Ollino, and M. Schillaci, Use of an evolutionary tool for antenna array synthesis, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 245–253, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [27] A. Blansch , P. Ga arski, and J. J. Korczak, A Coevolutionary Approach for Clustering with Feature Weighting Application to Image Analysis, in *Applications of Evolutionary Computing,*

- EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 254–263, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [28] L. Bocchi, L. Ballerini, and S. Hässler, A new evolutionary algorithm for image segmentation, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 264–273, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [29] E. Lutton, P. Grenier, and J. L. Vehel, An Interactive EA for Multifractal Bayesian Denoising, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 274–283, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [30] T. M. Centeno, H. S. Lopes, M. K. Felisberto, and L. V. Ramos de Arruda, Object Detection for Computer Vision Using a Robust Genetic Algorithm, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 284–293, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [31] C. B. Pérez, G. Olague, F. Fernandez, and E. Lutton, An Evolutionary Infection Algorithm for Dense Stereo Correspondence, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 294–303, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [32] T. Shan, S. Wang, X. Zhang, and L. Jiao, Automatic Image Enhancement Driven by Evolution Based on Ridgelet Frame in the Presence of Noise, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 304–313, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [33] R. Vanyi, Practical Evaluation of Efficient Fitness Functions for Binary Images, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 314–324, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [34] X. Zhang, S. Wang, T. Shan, and L. Jiao, Selective SVMs Ensemble Driven by Immune Clonal Algorithm, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 325–333, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [35] G. C. H. E. de Croon, E. O. Postma, and H. J. van den Herik, Sensory-motor Coordination in Gaze Control, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 334–344, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [36] A. Duarte, Á. Sánchez, F. Fernández, and A. Sanz, Region Merging for Severe Oversegmented Images using a Hierarchical Social Metaheuristic, in *Applications of Evolutionary Computing*,

- EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 345–355, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [37] E. Dunn, G. Olague, and E. Lutton, Automated Photogrammetric Network Design using the Parisian Approach, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 356–365, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [38] M. Langer, B. Svensson, A. Brun, M. Andersson, and H. Knutsson, Design of Fast Multidimensional Filters Using Genetic Algorithms, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 366–375, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [39] E. Mumolo, M. Nolich, and G. Scalamera, Genetic-Fuzzy Optimization Algorithm for Adaptive Learning of Human Vocalization in Robotics, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 376–385, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [40] Óscar Pérez, J. García, A. Berlanga, and J. M. Molina, Evolving Parameters of Surveillance Video Systems for Non-Overfitted Learning, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 386–395, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [41] M. E. Roberts and E. Claridge, A Multistage Approach To Cooperatively Coevolving Feature Construction and Object Detection, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 396–406, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [42] S. L. Smith, S. Leggett, and A. M. Tyrrell, An Implicit Context Representation for Evolving Image Processing Filters, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 407–416, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [43] M. Zhang and W. Smart, Learning Weights in Genetic Programs Using Gradient Descent for Object Recognition, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 417–427, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [44] J. McCormack, Open Problems in Evolutionary Music and Art, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 428–436, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.

- [45] J. P. Collomosse and P. M. Hall, Genetic Paint: A Search for Salient Paintings, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 437–447, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [46] A. Dorin, Artificial Life, Death and Epidemics in Evolutionary, Generative Electronic Art, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 448–457, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [47] S. Draves, The Electric Sheep Screen-Saver: A Case Study in Aesthetic Evolution, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 458–467, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [48] T. Blackwell and J. Jefferies, Swarm Tech-tiles, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 468–477, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [49] G. Greenfield, Evolutionary Methods for Ant Colony Paintings, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 478–487, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [50] S. T. Madsen and G. Widmer, Evolutionary Search for Musical Parallelism, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 488–497, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [51] B. Manaris, P. Machado, C. McCauley, J. Romero, and D. Krehbiel, Developing Fitness Functions for Pleasant Music: Zipf’s Law and Interactive Evolution Systems, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 498–507, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [52] R. Ramirez and A. Hazan, Understanding Expressive Music Performance Using Genetic Algorithms, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 508–516, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [53] J. McDermott, N. J. L. Griffith, and M. O’Neill, Toward User-directed Evolution of Sound Synthesis Parameters, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 517–526, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [54] P. Urbano, Playing in the Pheromone Playground: Experiences in Swarm Painting, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne,

- R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 527–532, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [55] T. J. Mitchell and A. G. Pipe, Convergence Synthesis of Dynamic Frequency Modulation Tones Using an Evolution Strategy, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 533–538, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [56] E. R. Miranda and J. Matthias, Granular Sampling using a Pulse-Coupled Network of Spiking Neurons, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 539–544, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [57] P. Worth and S. Stepney, Growing Music: musical interpretations of L-Systems, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 545–550, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [58] A. R. Brown, Exploring Rhythmic Automata, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 551–556, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [59] A. C. Eldridge, Extra-Music(ologic)al Models for Algorithmic Composition, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 557–562, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [60] A. Karaman, Şima Uyar, and G. Eryigit, The Memory Indexing Evolutionary Algorithm for Dynamic Environments, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 563–573, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [61] D. Merkle, M. Middendorf, and A. Scheidler, Dynamic Decentralized Packet Clustering in Networks, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 574–583, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [62] G. Avigad, A. Moshaiiov, and N. Brauner, MOEA-based Approach to Delayed Decisions for Robust Conceptual Design, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 584–589, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [63] K. E. Parsopoulos and M. N. Vrahatis, Unified Particle Swarm Optimization in Dynamic Environments, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith,

- and G. Squillero, volume 3449 of *LNCS*, pages 590–599, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
- [64] W. Rand and R. Riolo, Shaky Ladders, Hyperplane-Defined Functions and Genetic Algorithms: Systematic Controlled Observation in Dynamic Environments, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 600–609, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [65] F. Neri, A. V. Kononova, G. Delvecchio, M. S. Labini, and A. V. Ugianov, A Hierarchical Evolutionary Algorithm with Noisy Fitness in Structural Optimization Problems, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 610–616, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [66] G. Ochoa, C. Mädler-Kron, R. Rodriguez, and K. Jaffe, Assortative Mating in Genetic Algorithms for Dynamic Problems, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 617–622, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.
 - [67] C. M. Rocco S., A Hybrid Approach based on Evolutionary Strategies and Interval Arithmetic to perform Robust Designs, in *Applications of Evolutionary Computing, EvoWorkshops2005: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, edited by F. Rothlauf, J. Branke, S. Cagnoni, D. W. Corne, R. Drechsler, Y. Jin, P. Machado, E. Marchiori, J. Romero, G. D. Smith, and G. Squillero, volume 3449 of *LNCS*, pages 623–628, Lausanne, Switzerland, 30 March-1 April 2005, Springer Verlag.