

## Список литературы

- [Ballerini et al.(2004)]Ballerini, Bocchi, and Johansson] Lucia Ballerini, Leonardo Bocchi, and Carina B. Johansson. *Image Segmentation by a Genetic Fuzzy c-Means Algorithm using Color and Spatial Information*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 260–269 (Springer Verlag, Coimbra, Portugal, 2004).
- [Ballerini and Franzén(2004)] Lucia Ballerini and Lennart Franzén. *Genetic Optimization of Morphological Filters with Applications in Breast Cancer Detection*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 250–259 (Springer Verlag, Coimbra, Portugal, 2004).
- [Bazzoli and Tettamanzi(2004)] Andrea Bazzoli and Andrea G. B. Tettamanzi. *A Memetic Algorithm for Protein Structure Prediction in a 3D-Lattice HP Model*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 1–10 (Springer Verlag, Coimbra, Portugal, 2004).
- [Berntsson and Tang(2004)] Johan Berntsson and Maolin Tang. *A Slicing Structure Representation for the Multi-Layer Floorplan Layout Problem*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 188–197 (Springer Verlag, Coimbra, Portugal, 2004).
- [Blackwell and Young(2004)] Tim Blackwell and Michael Young. *Swarm Granulator*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 399–408 (Springer Verlag, Coimbra, Portugal, 2004).
- [Blesa and Blum(2004)] Maria Blesa and Christian Blum. *Ant Colony Optimization for the Maximum Edge-Disjoint Paths Problem*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 160–169 (Springer Verlag, Coimbra, Portugal, 2004).
- [Brabazon and O’Neill(2004)] Anthony Brabazon and Michael O’Neill. *Bond-Issuer Credit Rating with Grammatical Evolution*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 270–279 (Springer Verlag, Coimbra, Portugal, 2004).
- [Brizuela et al.(2004)]Brizuela, González, and Romero] Carlos A. Brizuela, Luis C. González, and Heidi J. Romero. *An Improved Genetic Algorithm for the Sequencing by Hybridization Problem*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and

- Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 11–20 (Springer Verlag, Coimbra, Portugal, 2004).
- [Comellas and Dalfó(2004)] Francesc Comellas and Cristina Dalfó. *Using Genetic Programming to Design Broadcasting Algorithms for Manhattan Street Networks*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 170–177 (Springer Verlag, Coimbra, Portugal, 2004).
- [Cooper et al.(2004)Cooper, Howard, and Tyrrell] Crispin Cooper, David Howard, and Andy M. Tyrrell. *Using GAs to Create a Waveguide Model of the Oral Vocal Tract*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 280–288 (Springer Verlag, Coimbra, Portugal, 2004).
- [Cotta et al.(2004)Cotta, Sloper, and Moscato] Carlos Cotta, Christian Sloper, and Pablo Moscato. *Evolutionary Search of Thresholds for Robust Feature Set Selection: Application to the Analysis of Microarray Data*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 21–30 (Springer Verlag, Coimbra, Portugal, 2004).
- [Dehlinger(2004)] Hans Eberhardt Dehlinger. *Generative Art: Fuzzy Polygon Clipping in Program Generated Line Oriented Drawings*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 419–426 (Springer Verlag, Coimbra, Portugal, 2004).
- [Dorin(2004)] Alan Dorin. *The Virtual Ecosystem As Generative Electronic Art*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 467–476 (Springer Verlag, Coimbra, Portugal, 2004).
- [Drechsler et al.(2004)Drechsler, Hilgemeier, Fey, and Drechsler] Nicole Drechsler, Mario Hilgemeier, Görschwin Fey, and Rolf Drechsler. *Disjoint Sum of Product Minimization by Evolutionary Algorithms*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 198–207 (Springer Verlag, Coimbra, Portugal, 2004).
- [Duarte et al.(2004)Duarte, Sánchez, Fernández, Montemayor, and Pantrigo] Abraham Duarte, Ángel Sánchez, Felipe Fernández, Antonio S. Montemayor, and Juan J. Pantrigo. *Top-Down Evolutionary Image Segmentation using a Hierarchical Social Metaheuristic*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 301–311 (Springer Verlag, Coimbra, Portugal, 2004).

- [Dunn and Olague(2004)] Enrique Dunn and Gustavo Olague. *Multi-objective Sensor Planning for Efficient and Accurate Object Reconstruction*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 312–321 (Springer Verlag, Coimbra, Portugal, 2004).
- [Fleury et al.(2004)]Fleury, Lacomme, and Prins] Gérard Fleury, Philippe Lacomme, and Christian Prins. *Evolutionary Algorithms for Stochastic Arc Routing Problems*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 501–512 (Springer Verlag, Coimbra, Portugal, 2004).
- [Fühner et al.(2004)]Fühner, Erdmann, Farkas, Tollkühn, and Kókai] Tim Fühner, Andreas Erdmann, Richárd Farkas, Bernd Tollkühn, and Gabriella Kókai. *Genetic Algorithms to Improve Mask and Illumination Geometries in Lithographic Imaging Systems*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 208–218 (Springer Verlag, Coimbra, Portugal, 2004).
- [Granato de Araújo et al.(2004)]Granato de Araújo, Carneiro de Mesquita Filho, and de Castro Pinto Pedroza] Sérgio Granato de Araújo, Antônio Carneiro de Mesquita Filho, and Aloysio de Castro Pinto Pedroza. *A Scenario-Based Approach to Protocol Design Using Evolutionary Techniques*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 178–187 (Springer Verlag, Coimbra, Portugal, 2004).
- [Greenfield(2004)] Gary Greenfield. *Tilings of Sequences of Co-evolved Images*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 427–436 (Springer Verlag, Coimbra, Portugal, 2004).
- [Heddad et al.(2004)]Heddad, Brameier, and MacCallum] Amine Heddad, Markus Brameier, and Robert MacCallum. *Evolving Regular Expression-based Sequence Classifiers for Protein Nuclear Localisation*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 31–40 (Springer Verlag, Coimbra, Portugal, 2004).
- [Janson and Middendorf(2004)] Stefan Janson and Martin Middendorf. *A Hierarchical Particle Swarm Optimizer for Dynamic Optimization Problems*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 513–524 (Springer Verlag, Coimbra, Portugal, 2004).
- [Jedidi et al.(2004)]Jedidi, Caminada, and Finkel] Adel Jedidi, Alexandre Caminada, and Gerd Finkel. *2-Objective Optimization of Cells Overlap and Geometry with Evolutionary Algorithms*. In

- Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 130–139 (Springer Verlag, Coimbra, Portugal, 2004).
- [Jin and Sendhoff(2004)] Yaochu Jin and Bernhard Sendhoff. *Constructing Dynamic Optimization Test Problems Using the Multi-Objective Optimization Concept*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 525–536 (Springer Verlag, Coimbra, Portugal, 2004).
- [Jong et al.(2004)] Kees Jong, Elena Marchiori, and Aad van der Vaart. *Analysis of Proteomic Pattern Data for Cancer Detection*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 41–51 (Springer Verlag, Coimbra, Portugal, 2004).
- [Kim and Kim(2004)] Sung-Min Kim and Wonha Kim. *An Algorithm for Segmenting Gaseous Objects on Images*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 322–328 (Springer Verlag, Coimbra, Portugal, 2004).
- [Lewis(2004)] Matthew Lewis. *Aesthetic Video Filter Evolution in an Interactive Real-time Framework*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 409–418 (Springer Verlag, Coimbra, Portugal, 2004).
- [Livramento et al.(2004)] Silvana Livramento, Arnaldo Vieira Moura, Flávio Keidi Miyazawa, Mário Massato Harada, and Rogério Albertoni Miranda. *A Genetic Algorithm for Telecommunication Network Design*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 140–149 (Springer Verlag, Coimbra, Portugal, 2004).
- [Machado et al.(2004)] Penousal Machado, Juan Romero, Santos, Cardoso, and Manaris. *Adaptive Critics for Evolutionary Artists*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 437–446 (Springer Verlag, Coimbra, Portugal, 2004).
- [Macias et al.(2004)] Demetrio Macias, Alexandre Vial, and Dominique Barchiesi. *Evolution Strategies Approach for the Solution of an Inverse Problem in Near-Field Optics*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 329–338 (Springer Verlag, Coimbra, Portugal, 2004).

- [Maravall et al.(2004)Maravall, de Lope, and Patricio] Darío Maravall, Javier de Lope, and Miguel Ángel Patricio. *Competitive Goal Coordination in Automatic Parking*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 537–548 (Springer Verlag, Coimbra, Portugal, 2004).
- [Matsumaru et al.(2004)Matsumaru, Centler, Zauner, and Dittrich] Naoki Matsumaru, Florian Centler, Klaus-Peter Zauner, and Peter Dittrich. *Self-adaptive Scouting—Autonomous Experimentation for Systems Biology*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 52–62 (Springer Verlag, Coimbra, Portugal, 2004).
- [McCormack(2004)] Jon McCormack. *Aesthetic Evolution of L-systems Revisited*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 477–488 (Springer Verlag, Coimbra, Portugal, 2004).
- [Moore and Hahn(2004)] Jason Moore and Lance Hahn. *An Improved Grammatical Evolution Strategy for Hierarchical Petri Net Modeling of Complex Genetic Systems*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 63–72 (Springer Verlag, Coimbra, Portugal, 2004).
- [Myodo and Tanaka(2004)] Emi Myodo and Kiyoshi Tanaka. *A Watermark Sharing Scheme to High Quality Halftone Images with Genetic Algorithms*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 339–348 (Springer Verlag, Coimbra, Portugal, 2004).
- [Nam et al.(2004)Nam, Joung, Ahn, and Zhang] Jin-Wu Nam, Je-Gun Joung, Young-Sirk Ahn, and Byoung-Tak Zhang. *Two-Step Genetic Programming for Optimization of RNA Common-Structure*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 73–83 (Springer Verlag, Coimbra, Portugal, 2004).
- [Nemirovsky and Luger-Guillaume(2004)] Paul Nemirovsky and Rebecca Luger-Guillaume. *Improvisational Media Space :: Architecture and Strategies for Evolution*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 457–466 (Springer Verlag, Coimbra, Portugal, 2004).
- [Raidl et al.(2004)Raidl, Cagnoni, Branke, Corne, Drechsler, Jin, Johnson, Machado, Marchiori, Rothlauf, Smith, and Squillero] Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero.

- Giovanni Squillero (eds.). *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS* (Springer Verlag, Coimbra, Portugal, 2004).
- [Rivero et al.(2004)Rivero, nal, Dorado, and Pazos] Daniel Rivero, Juan R. Rabu nal, Julián Dorado, and Alejandro Pazos. *Using Genetic Programming for Character Discrimination in Damaged Documents*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 349–358 (Springer Verlag, Coimbra, Portugal, 2004).
- [Rocha et al.(2004)Rocha, Neves, Rocha, and Ferreira] Miguel Rocha, José Neves, Isabel Rocha, and Eugénio Ferreira. *Evolutionary Algorithms for Optimal Control in Fed-batch Fermentation Processes*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 84–93 (Springer Verlag, Coimbra, Portugal, 2004).
- [Sanchez et al.(2004)Sanchez, Squillero, and Violante] Ernesto Sanchez, Giovanni Squillero, and Massimo Violante. *Exploiting HW Acceleration for Classifying Complex Test Program Generation Problems*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 230–239 (Springer Verlag, Coimbra, Portugal, 2004).
- [Sekanina(2004)] Lukáš Sekanina. *Evolutionary Design Space Exploration for Median Circuits*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 240–249 (Springer Verlag, Coimbra, Portugal, 2004).
- [Shen and Heckendorn(2004)] Jian Shen and Robert Heckendorn. *Discrete Branch Length Representations for Genetic Algorithms in Phylogenetic Search*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 94–103 (Springer Verlag, Coimbra, Portugal, 2004).
- [shi Cui and qi Sun(2004)] Jin shi Cui and Zeng qi Sun. *Vision-Based Hand Motion Capture Using Genetic Algorithm*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 289–300 (Springer Verlag, Coimbra, Portugal, 2004).
- [Shin et al.(2004)Shin, Ki, Maik, Kang, Jung, and Paik] Jeongho Shin, Hyunjong Ki, Vivek Maik, Jinyoung Kang, Junghoon Jung, and Joonki Paik. *Evolutionary Algorithm-Based Local Structure Modeling for Improved Active Shape Model*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 359–368 (Springer Verlag, Coimbra, Portugal, 2004).

- [Solteiro Pires et al.(2004)] Solteiro Pires, de Moura Oliveira, and Tenreiro Machado] Eduardo José Solteiro Pires, Paulo B. de Moura Oliveira, and José António Tenreiro Machado. *Multi-Objective Genetic Manipulator Trajectory Planner*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 219–229 (Springer Verlag, Coimbra, Portugal, 2004).
- [Spieth et al.(2004)] Spieth, Streichert, Speer, and Zell] Christian Spieth, Felix Streichert, Nora Speer, and Andreas Zell. *Iteratively Inferring Gene Regulatory Networks with Virtual Knockout Experiments*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 104–112 (Springer Verlag, Coimbra, Portugal, 2004).
- [Svangård and Nordin(2004)] Nils Svangård and Peter Nordin. *Automated Aesthetic Selection of Evolutionary Art by Distance Based Classification of Genomes and Phenomes using the Universal Similarity Metric*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 447–456 (Springer Verlag, Coimbra, Portugal, 2004).
- [Talay and Oktug(2004)] A. Cagatay Talay and Sema Oktug. *A GA/Heuristic Hybrid Technique for Routing and Wavelength Assignment in WDM Networks*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 150–159 (Springer Verlag, Coimbra, Portugal, 2004).
- [Thomsen and Boomsma(2004)] René Thomsen and Wouter Boomsma. *Multiple Sequence Alignment Using SAGA: Investigating the Effects of Operator Scheduling, Population Seeding, and Crossover Operators*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 113–122 (Springer Verlag, Coimbra, Portugal, 2004).
- [Vaccaro and Guest(2004)] James Vaccaro and Clark Guest. *Evolutionary Bayesian Network Dynamic Planner for Game RISK*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 549–560 (Springer Verlag, Coimbra, Portugal, 2004).
- [Vandecasteele et al.(2004)] Vandecasteele, Hess, and Crawford] Frederik P. J. Vandecasteele, Thomas F. Hess, and Ronald L. Crawford. *Constructing Microbial Consortia with Minimal Growth Using a Genetic Algorithm*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 123–129 (Springer Verlag, Coimbra, Portugal, 2004).
- [Zhang and Bhowan(2004)] Mengjie Zhang and Urvesh Bhowan. *Program Size and Pixel Statistics in Genetic Programming for Object Detection*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications*

of *Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 379–388 (Springer Verlag, Coimbra, Portugal, 2004).

[Zhang and Smart(2004)] Mengjie Zhang and Will Smart. *Multiclass Object Classification Using Genetic Programming*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 369–378 (Springer Verlag, Coimbra, Portugal, 2004).

[Zhang et al.(2004)Zhang, Smith, and Tyrrell] Yang Zhang, Steve L. Smith, and Andy M. Tyrrell. *Intrinsic Evolvable Hardware in Digital Filter Design*. In Guenther R. Raidl, Stefano Cagnoni, Jurgen Branke, David W. Corne, Rolf Drechsler, Yaochu Jin, Colin Johnson, Penousal Machado, Elena Marchiori, Franz Rothlauf, George D. Smith, and Giovanni Squillero (eds.) *Applications of Evolutionary Computing, EvoWorkshops2004: EvoBIO, EvoCOMNET, EvoHOT, EvoIASP, EvoMUSART, EvoSTOC*, volume 3005 of *LNCS*, pp. 389–398 (Springer Verlag, Coimbra, Portugal, 2004).