

## Список литературы

- [Aguirre 03] Arturo Hernandez Aguirre, Edgar C. Gonzalez Equihua & Carlos A. Coello Coello. *Synthesis of Boolean Functions using Information Theory*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 218–227, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Araujo 03] Sergio G. Araujo, A. Mesquita & Aloysio C. P. Pedroza. *Using Genetic Programming and High Level Synthesis to Design Optimized Datapath*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 434–445, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Aunet 03] Snorre Aunet & Morten Hartmann. *Real-time Reconfigurable Linear Threshold Elements and Some Applications to Neural Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 365–376, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Azhar 03] M. A. H. B. Azhar & K. R. Dimond. *Hardware Implementation of a Genetic Controller and Effects of Training on Evolution*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 344–354, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Bentley 03] Peter J. Bentley. *Evolving Fractal Proteins*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 81–92, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Blynel 03] Jesper Blynel. *Evolving Reinforcement Learning-Like Abilities for Robots*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 320–331, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Canham 03] Richard Canham & Andy M. Tyrrell. *A Learning, Multi-layered, Hardware Artificial Immune System Implemented upon an Embryonic Array*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 174–185, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Coello 03] Carlos A. Coello Coello, Erika Hernandez Luna & Arturo Hernandez Aguirre. *Use of Particle Swarm Optimization to Design Combinational Logic Circuits*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 398–409, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Corno 03] F. Corno, F. Cumani & G. Squillero. *Exploiting Auto-adaptive  $\mu$ -GP for Highly Effective Test Programs Generation*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 262–273, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [de Degaris 03] Hugo de Degaris, Amit Gaur & Ravichandra Sriram. *Quantum versus Evolutionary Systems. Total versus Sampled Search*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 457–466, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.

- [Downing 03] Keith L. Downing. *Developmental Models for Emergent Computation*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 105–116, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Eriksson 03] Jan Eriksson, Oriol Torres, Andrew Mitchell, Gayle Tucker, Ken Lindsay, David Halliday, Jay Rosenberg, Juan-Manuel Moreno & Alessandro E. P. Villa. *Spiking Neural Networks for Reconfigurable POETic Tissue*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 165–173, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Estrada 03] Giovanni G. Estrada. *A Note on Designing Logical Circuits using SAT*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 410–421, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Garvie 03] Miguel Garvie & Adrian Thompson. *Evolution of Self-diagnosing Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 238–248, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Goldsmith 03] Robert Goldsmith. *Real World Hardware Evolution: A Mobile Platform for Sensor Evolution*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 355–364, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Greensted 03] Andrew J. Greensted & Andy M. Tyrrell. *Fault Tolerance via Endocrinologic Based Communication for Multiprocessor Systems*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 24–34, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Kumar 03] Sanjeev Kumar & Peter J. Bentley. *Biologically Inspired Evolutionary Development*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 57–68, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Li 03] J. H. Li & M. H. Lim. *Evolvable Fuzzy System for ATM Cell Scheduling*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 208–217, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Lohn 03] Jason Lohn, Greg Larchev & Ronald DeMara. *A Genetic Representation for Evolutionary Fault Recovery in Virtex FPGAs*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 47–56, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Lund 03] Henrik Hautop Lund, Rasmus L. Larsen & Esben H. Østergaard. *Distributed Control in Self-reconfigurable Robots*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 296–307, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Miller 03] Julian F. Miller & Peter Thomson. *A Developmental Method for Growing Graphs and Circuits*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference,

ICES 2003, volume 2606 of *LNCS*, pages 93–104, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.

- [Ortega-Sanchez 03] Cesar Ortega-Sanchez, Jose Torres-Jimenez & Jorge Morales-Cruz. *Routing of Embryonic Arrays Using Genetic Algorithms*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 249–261, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Østergaard 03] Esben H. Østergaard & Henrik Hautop Lund. *Co-evolving Complex Robot Behavior*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 308–319, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Roggen 03] Daniel Roggen, Dario Floreano & Claudio Mattiussi. *A Morphogenetic Evolutionary System: Phylogenesis of the POetic Circuit*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 153–164, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Schmitz 03] Tillmann Schmitz, Steffen Hohmann, Karlheinz Meier, Johannes Schemmel & Felix Schurmann. *Speeding up Hardware Evolution: A Coprocessor for Evolutionary Algorithms*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 274–285, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Schnier 03] Thorsten Schnier & Xin Yao. *Using Negative Correlation to Evolve Fault-Tolerant Circuits*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 35–46, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Sekanina 03] Lukas Sekanina. *Virtual Reconfigurable Circuits for Real-World Applications of Evolvable Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 186–197, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Smith 03] Stephen L. Smith, David P. Crouch & Andy M. Tyrrell. *Evolving Image Processing Operations for an Evolvable Hardware Environment*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 332–343, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Tanaka 03] Fumiaki Tanaka, Atsushi Kameda, Masahito Yamamoto & Azuma Ohuchi. *The Effect of the Bulge Loop upon the Hybridization Process in DNA Computing*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 446–456, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Tempesti 03] Gianluca Tempesti, Daniel Roggen, Eduardo Sanchez, Yann Thoma, Richard Canham & Andy M. Tyrrell. *Ontogenetic Development and Fault Tolerance in the POetic Tissue*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 141–152, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.

- [Teuscher 03] Christof Teuscher & Mathieu S. Capcarrere. *On Fireflies, Cellular Systems, and Evolvable Systems: From Biology to Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 1–12, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Torresen 03] Jim Torresen. *Evolving Multiplier Circuits by Training Set and Training Vector Partitioning*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 228–237, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Tufté 03] Gunnar Tufté & Pauline C. Haddow. *Building Knowledge into Developmental Rules for Circuit Design*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 69–80, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Tyrrell 03] Andy M. Tyrrell, Eduardo Sanchez, Dario Floreano, Gianluca Tempesti, Daniel Mange, Juan-Manuel Moreno, Jay Rosenberg & Alessandro E. P. Villa. *POetic Tissue: An Integrated Architecture for Bio-inspired Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 129–140, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Van Belle 03] Werner Van Belle, Tom Mens & Theo D’Hondt. *Using Genetic Programming to Generate Protocol Adaptors for Interprocess Communication*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 422–433, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [van de Haar 03] Rudie van de Haar & Jaap Hoekstra. *Simulation of a Neural Node Using SET Technology*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 377–386, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [van Remortel 03] Piet van Remortel, Johan Ceuppens, Anne Defaweux, Tom Lenaerts & Bernard Manderick. *Developmental Effects on Tuneable Fitness Landscapes*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 117–128, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Venkateswaran 03] N. Venkateswaran & C. Chandramouli. *General Purpose Processor Architecture for Modeling Stochastic Biological Neuronal Assemblies*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 387–397, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Yasunaga 03] Moritoshi Yasunaga, Ikuo Yoshihara & Jung H. Kim. *Gene Finding Using Evolvable Reasoning Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 198–207, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.
- [Zebulum 03] Ricardo S. Zebulum, Adrian Stoica, Didier Keymeulen, M. I. Ferguson, Vu Duong, Xin Guo & Vatche Vorperian. *Automatic Evolution of Signal Separators using Reconfigurable Hardware*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 286–295, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.

- [Zinchenko 03] Lyudmilla Zinchenko, Heinz Muhlenbein, Victor Kureichik & Thilo Mahnig. *A Comparison of Different Circuit Representations for Evolutionary Analog Circuit Design*. In Andy M. Tyrrell, Pauline C. Haddow & Jim Torresen, editors, *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, volume 2606 of *LNCS*, pages 13–23, Trondheim, Norway, 17-20 March 2003. Springer-Verlag.