

Список литературы

- [1] Arturo Hernandez Aguirre, Edgar C. Gonzalez Equihua, and Carlos A. Coello Coello. Synthesis of boolean functions using information theory. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [2] Sergio G. Araujo, A. Mesquita, and Aloysio C. P. Pedroza. Using genetic programming and high level synthesis to design optimized datapath. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [3] Snorre Aunet and Morten Hartmann. Real-time reconfigurable linear threshold elements and some applications to neural hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [4] M. A. H. B. Azhar and K. R. Dimond. Hardware implementation of a genetic controller and effects of training on evolution. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [5] Peter J. Bentley. Evolving fractal proteins. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [6] Jesper Blynel. Evolving reinforcement learning-like abilities for robots. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [7] Richard Canham and Andy M. Tyrrell. A learning, multi-layered, hardware artificial immune system implemented upon an embryonic array. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [8] Carlos A. Coello Coello, Erika Hernandez Luna, and Arturo Hernandez Aguirre. Use of particle swarm optimization to design combinational logic circuits. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [9] F. Corno, F. Cumani, and G. Squillero. Exploiting auto-adaptive μ -GP for highly effective test programs generation. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [10] Hugo de Degaris, Amit Gaur, and Ravichandra Sriram. Quantum versus evolutionary systems. total versus sampled search. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [11] Keith L. Downing. Developmental models for emergent computation. In Andy M. Tyrrell, Pauline C. Haddow, and 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.

- [12] Jan Eriksson, Oriol Torres, Andrew Mitchell, Gayle Tucker, Ken Lindsay, David Halliday, Jay Rosenberg, Juan-Manuel Moreno, and Alessandro E. P. Villa. Spiking neural networks for reconfigurable POetic tissue. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [13] Giovanni G. Estrada. A note on designing logical circuits using SAT. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [14] Miguel Garvie and Adrian Thompson. Evolution of self-diagnosing hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [15] Robert Goldsmith. Real world hardware evolution: A mobile platform for sensor evolution. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [16] Andrew J. Greensted and Andy M. Tyrrell. Fault tolerance via endocrinologic based communication for multiprocessor systems. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [17] Sanjeev Kumar and Peter J. Bentley. Biologically inspired evolutionary development. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [18] J. H. Li and M. H. Lim. Evolvable fuzzy system for ATM cell scheduling. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [19] Jason Lohn, Greg Larchev, and Ronald DeMara. A genetic representation for evolutionary fault recovery in Virtex FPGAs. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [20] Henrik Hautop Lund, Rasmus L. Larsen, and Esben H. Østergaard. Distributed control in self-reconfigurable robots. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [21] Julian F. Miller and Peter Thomson. A developmental method for growing graphs and circuits. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [22] Cesar Ortega-Sanchez, Jose Torres-Jimenez, and Jorge Morales-Cruz. Routing of embryonic arrays using genetic algorithms. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [23] Esben H. Østergaard and Henrik Hautop Lund. Co-evolving complex robot behavior. In Andy M. Tyrrell, Pauline C. Haddow, and 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.

- [24] Daniel Roggen, Dario Floreano, and Claudio Mattiussi. A morphogenetic evolutionary system: Phylogenesis of the POEtic circuit. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [25] Tillmann Schmitz, Steffen Hohmann, Karlheinz Meier, Johannes Schemmel, and Felix Schurmann. Speeding up hardware evolution: A coprocessor for evolutionary algorithms. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [26] Thorsten Schnier and Xin Yao. Using negative correlation to evolve fault-tolerant circuits. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [27] Lukas Sekanina. Virtual reconfigurable circuits for real-world applications of evolvable hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [28] Stephen L. Smith, David P. Crouch, and Andy M. Tyrrell. Evolving image processing operations for an evolvable hardware environment. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [29] Fumiaki Tanaka, Atsushi Kameda, Masahito Yamamoto, and Azuma Ohuchi. The effect of the bulge loop upon the hybridization process in DNA computing. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [30] Gianluca Tempesti, Daniel Roggen, Eduardo Sanchez, Yann Thoma, Richard Canham, and Andy M. Tyrrell. Ontogenetic development and fault tolerance in the POEtic tissue. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [31] Christof Teuscher and Mathieu S. Capcarrere. On fireflies, cellular systems, and evolware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [32] Jim Torresen. Evolving multiplier circuits by training set and training vector partitioning. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [33] Gunnar Tufte and Pauline C. Haddow. Building knowledge into developmental rules for circuit design. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [34] Andy M. Tyrrell, Eduardo Sanchez, Dario Floreano, Gianluca Tempesti, Daniel Mange, Juan-Manuel Moreno, Jay Rosenberg, and Alessandro E. P. Villa. POEtic tissue: An integrated architecture for bio-inspired hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.

- [35] Werner Van Belle, Tom Mens, and Theo D'Hondt. Using genetic programming to generate protocol adaptors for interprocess communication. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [36] Rudie van de Haar and Jaap Hoekstra. Simulation of a neural node using SET technology. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [37] Piet van Remortel, Johan Ceuppens, Anne Defaweux, Tom Lenaerts, and Bernard Manderick. Developmental effects on tuneable fitness landscapes. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [38] N. Venkateswaran and C. Chandramouli. General purpose processor architecture for modeling stochastic biological neuronal assemblies. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [39] Moritoshi Yasunaga, Ikuo Yoshihara, and Jung H. Kim. Gene finding using evolvable reasoning hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [40] Ricardo S. Zebulum, Adrian Stoica, Didier Keymeulen, M. I. Ferguson, Vu Duong, Xin Guo, and Vatche Vorperian. Automatic evolution of signal separators using reconfigurable hardware. In Andy M. Tyrrell, Pauline C. Haddow, and 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.
- [41] Lyudmilla Zinchenko, Heinz Muhlenbein, Victor Kureichik, and Thilo Mahnig. A comparison of different circuit representations for evolutionary analog circuit design. In Andy M. Tyrrell, Pauline C. Haddow, and 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.