## Список литературы

- [1] S. G. Araujo, A. Mesquita, and A. C. P. Pedroza, Using Genetic Programming and High Level Synthesis to Design Optimized Datapath, in *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 434–445, Trondheim, Norway, 2003, Springer-Verlag.
- [2] S. AUNET and M. HARTMANN, Real-time Reconfigurable Linear Threshold Elements and Some Applications to Neural Hardware, in *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 365-376, Trondheim, Norway, 2003, Springer-Verlag.
- [3] M. A. H. B. AZHAR and K. R. DIMOND, Hardware Implementation of a Genetic Controller and Effects of Training on Evolution, in *Evolvable Systems: From Biology to Hardware*, *Fifth International Conference*, *ICES 2003*, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 344–354, Trondheim, Norway, 2003, Springer-Verlag.
- [4] W. VAN BELLE, T. MENS, and T. D'HONDT, Using Genetic Programming to Generate Protocol Adaptors for Interprocess Communication, in *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 422–433, Trondheim, Norway, 2003, Springer-Verlag.
- [5] P. J. Bentley, Evolving Fractal Proteins, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 81–92, Trondheim, Norway, 2003, Springer-Verlag.
- [6] J. BLYNEL, Evolving Reinforcement Learning-Like Abilities for Robots, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 320–331, Trondheim, Norway, 2003, Springer-Verlag.
- [7] R. CANHAM and A. M. TYRRELL, A Learning, Multi-layered, Hardware Artificial Immune System Implemented upon an Embryonic Array, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 174–185, Trondheim, Norway, 2003, Springer-Verlag.
- [8] C. A. C. Coello, E. H. Luna, and A. H. Aguirre, Use of Particle Swarm Optimization to Design Combinational Logic Circuits, in *Evolvable Systems: From Biology to Hardware*, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 398–409, Trondheim, Norway, 2003, Springer-Verlag.
- [9] F. CORNO, F. CUMANI, and G. SQUILLERO, Exploiting Auto-adaptive μ-GP for Highly Effective Test Programs Generation, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 262–273, Trondheim, Norway, 2003, Springer-Verlag.
- [10] K. L. DOWNING, Developmental Models for Emergent Computation, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 105–116, Trondheim, Norway, 2003, Springer-Verlag.
- [11] J. ERIKSSON, O. TORRES, A. MITCHELL, G. TUCKER, K. LINDSAY, D. HALLIDAY, J. ROSENBERG, J.-M. MORENO, and A. E. P. VILLA, Spiking Neural Networks for Reconfigurable POEtic Tissue, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 165–173, Trondheim, Norway, 2003, Springer-Verlag.
- [12] G. G. ESTRADA, A Note on Designing Logical Circuits using SAT, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 410–421, Trondheim, Norway, 2003, Springer-Verlag.

- [13] H. DE DEGARIS, A. GAUR, and R. SRIRAM, Quantum versus Evolutionary Systems. Total versus Sampled Search, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 457–466, Trondheim, Norway, 2003, Springer-Verlag.
- [14] M. Garvie and A. Thompson, Evolution of Self-diagnosing Hardware, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 238–248, Trondheim, Norway, 2003, Springer-Verlag.
- [15] R. Goldsmith, Real World Hardware Evolution: A Mobile Platform for Sensor Evolution, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 355–364, Trondheim, Norway, 2003, Springer-Verlag.
- [16] A. J. Greensted and A. M. Tyrrell, Fault Tolerance via Endocrinologic Based Communication for Multiprocessor Systems, in *Evolvable Systems: From Biology to Hardware*, *Fifth International Conference*, *ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 24–34, Trondheim, Norway, 2003, Springer-Verlag.
- [17] R. VAN DE HAAR and J. HOEKSTRA, Simulation of a Neural Node Using SET Technology, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 377–386, Trondheim, Norway, 2003, Springer-Verlag.
- [18] A. H. AGUIRRE, E. C. G. EQUIHUA, and C. A. COELLO COELLO, Synthesis of Boolean Functions using Information Theory, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 218–227, Trondheim, Norway, 2003, Springer-Verlag.
- [19] S. Kumar and P. J. Bentley, Biologically Inspired Evolutionary Development, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 57–68, Trondheim, Norway, 2003, Springer-Verlag.
- [20] J. H. Li and M. H. Lim, Evolvable Fuzzy System for ATM Cell Scheduling, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 208–217, Trondheim, Norway, 2003, Springer-Verlag.
- [21] J. LOHN, G. LARCHEV, and R. DEMARA, A Genetic Representation for Evolutionary Fault Recovery in Virtex FPGAs, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 47–56, Trondheim, Norway, 2003, Springer-Verlag.
- [22] H. H. Lund, R. L. Larsen, and E. H. Østergaard, Distributed Control in Self-reconfigurable Robots, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 296–307, Trondheim, Norway, 2003, Springer-Verlag.
- [23] J. F. MILLER and P. THOMSON, A Developmental Method for Growing Graphs and Circuits, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 93–104, Trondheim, Norway, 2003, Springer-Verlag.
- [24] C. Ortega-Sanchez, J. Torres-Jimenez, and J. Morales-Cruz, Routing of Embryonic Arrays Using Genetic Algorithms, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 249–261, Trondheim, Norway, 2003, Springer-Verlag.

- [25] E. H. ØSTERGAARD and H. H. LUND, Co-evolving Complex Robot Behavior, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 308–319, Trondheim, Norway, 2003, Springer-Verlag.
- [26] P. VAN REMORTEL, J. CEUPPENS, A. DEFAWEUX, T. LENAERTS, and B. MANDERICK, Developmental Effects on Tuneable Fitness Landscapes, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 117–128, Trondheim, Norway, 2003, Springer-Verlag.
- [27] D. ROGGEN, D. FLOREANO, and C. MATTIUSSI, A Morphogenetic Evolutionary System: Phylogenesis of the POEtic Circuit, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 153–164, Trondheim, Norway, 2003, Springer-Verlag.
- [28] T. SCHMITZ, S. HOHMANN, K. MEIER, J. SCHEMMEL, and F. SCHURMANN, Speeding up Hardware Evolution: A Coprocessor for Evolutionary Algorithms, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 274–285, Trondheim, Norway, 2003, Springer-Verlag.
- [29] T. SCHNIER and X. YAO, Using Negative Correlation to Evolve Fault-Tolerant Circuits, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 35–46, Trondheim, Norway, 2003, Springer-Verlag.
- [30] L. Sekanina, Virtual Reconfigurable Circuits for Real-World Applications of Evolvable Hardware, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 186–197, Trondheim, Norway, 2003, Springer-Verlag.
- [31] S. L. SMITH, D. P. CROUCH, and A. M. TYRRELL, Evolving Image Processing Operations for an Evolvable Hardware Environment, in *Evolvable Systems: From Biology to Hardware*, *Fifth International Conference*, *ICES 2003*, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 332–343, Trondheim, Norway, 2003, Springer-Verlag.
- [32] F. TANAKA, A. KAMEDA, M. YAMAMOTO, and A. OHUCHI, The Effect of the Bulge Loop upon the Hybridization Process in DNA Computing, in *Evolvable Systems: From Biology to Hardware*, *Fifth International Conference*, *ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 446–456, Trondheim, Norway, 2003, Springer-Verlag.
- [33] G. Tempesti, D. Roggen, E. Sanchez, Y. Thoma, R. Canham, and A. M. Tyrrell, Ontogenetic Development and Fault Tolerance in the POEtic Tissue, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 141–152, Trondheim, Norway, 2003, Springer-Verlag.
- [34] C. TEUSCHER and M. S. CAPCARRERE, On Fireflies, Cellular Systems, and Evolware, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 1–12, Trondheim, Norway, 2003, Springer-Verlag.
- [35] J. TORRESEN, Evolving Multiplier Circuits by Training Set and Training Vector Partitioning, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of LNCS, pp. 228–237, Trondheim, Norway, 2003, Springer-Verlag.
- [36] G. Tufte and P. C. Haddow, Building Knowledge into Developmental Rules for Circuit Design, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 69–80, Trondheim, Norway, 2003, Springer-Verlag.

- [37] A. M. TYRRELL, E. SANCHEZ, D. FLOREANO, G. TEMPESTI, D. MANGE, J.-M. MORENO, J. ROSENBERG, and A. E. P. VILLA, POEtic Tissue: An Integrated Architecture for Bio-inspired Hardware, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES* 2003, edited by A. M. TYRRELL, P. C. HADDOW, and J. TORRESEN, volume 2606 of *LNCS*, pp. 129–140, Trondheim, Norway, 2003, Springer-Verlag.
- [38] N. Venkateswaran and C. Chandramouli, General Purpose Processor Architecture for Modeling Stochastic Biological Neuronal Assemblies, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 387–397, Trondheim, Norway, 2003, Springer-Verlag.
- [39] M. Yasunaga, I. Yoshihara, and J. H. Kim, Gene Finding Using Evolvable Reasoning Hardware, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 198–207, Trondheim, Norway, 2003, Springer-Verlag.
- [40] R. S. ZEBULUM, A. STOICA, D. KEYMEULEN, M. I. FERGUSON, V. DUONG, X. GUO, and V. VORPERIAN, Automatic Evolution of Signal Separators using Reconfigurable Hardware, in Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of LNCS, pp. 286–295, Trondheim, Norway, 2003, Springer-Verlag.
- [41] L. ZINCHENKO, H. MUHLENBEIN, V. KUREICHIK, and T. MAHNIG, A Comparison of Different Circuit Representations for Evolutionary Analog Circuit Design, in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, edited by A. M. Tyrrell, P. C. Haddow, and J. Torresen, volume 2606 of *LNCS*, pp. 13–23, Trondheim, Norway, 2003, Springer-Verlag.