

## Список литературы

- [Aguirre *et al.*(2003)Aguirre, Equihua & Coello Coello] Aguirre, A.H., Equihua, E.C.G. & Coello Coello, C.A. (2003) Synthesis of boolean functions using information theory. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 218–227, Springer-Verlag, Trondheim, Norway.
- [Araujo *et al.*(2003)Araujo, Mesquita & Pedroza] Araujo, S.G., Mesquita, A. & Pedroza, A.C.P. (2003) Using genetic programming and high level synthesis to design optimized datapath. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 434–445, Springer-Verlag, Trondheim, Norway.
- [Aunet & Hartmann(2003)] Aunet, S. & Hartmann, M. (2003) Real-time reconfigurable linear threshold elements and some applications to neural hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 365–376, Springer-Verlag, Trondheim, Norway.
- [Azhar & Dimond(2003)] Azhar, M.A.H.B. & Dimond, K.R. (2003) Hardware implementation of a genetic controller and effects of training on evolution. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 344–354, Springer-Verlag, Trondheim, Norway.
- [Bentley(2003)] Bentley, P.J. (2003) Evolving fractal proteins. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 81–92, Springer-Verlag, Trondheim, Norway.
- [Blynel(2003)] Blynel, J. (2003) Evolving reinforcement learning-like abilities for robots. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 320–331, Springer-Verlag, Trondheim, Norway.
- [Canham & Tyrrell(2003)] Canham, R. & Tyrrell, A.M. (2003) A learning, multi-layered, hardware artificial immune system implemented upon an embryonic array. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 174–185, Springer-Verlag, Trondheim, Norway.
- [Coello *et al.*(2003)Coello, Luna & Aguirre] Coello, C.A.C., Luna, E.H. & Aguirre, A.H. (2003) Use of particle swarm optimization to design combinational logic circuits. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 398–409, Springer-Verlag, Trondheim, Norway.
- [Corno *et al.*(2003)Corno, Cumani & Squillero] Corno, F., Cumani, F. & Squillero, G. (2003) Exploiting auto-adaptive  $\mu$ -GP for highly effective test programs generation. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 262–273, Springer-Verlag, Trondheim, Norway.
- [de Degaris *et al.*(2003)de Degaris, Gaur & Sriram] de Degaris, H., Gaur, A. & Sriram, R. (2003) Quantum versus evolutionary systems. total versus sampled search. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 457–466, Springer-Verlag, Trondheim, Norway.
- [Downing(2003)] Downing, K.L. (2003) Developmental models for emergent computation. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 105–116, Springer-Verlag, Trondheim, Norway.
- [Eriksson *et al.*(2003)Eriksson, Torres, Mitchell, Tucker, Lindsay, Halliday, Rosenberg, Moreno & Villa] Eriksson, J., Torres, O., Mitchell, A., Tucker, G., Lindsay, K., Halliday, D., Rosenberg, J., Moreno, J.M. & Villa, A.E.P. (2003) Spiking neural networks for reconfigurable POetic tissue. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M.

- Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 165–173, Springer-Verlag, Trondheim, Norway.
- [Estrada(2003)] Estrada, G.G. (2003) A note on designing logical circuits using SAT. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 410–421, Springer-Verlag, Trondheim, Norway.
- [Garvie & Thompson(2003)] Garvie, M. & Thompson, A. (2003) Evolution of self-diagnosing hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 238–248, Springer-Verlag, Trondheim, Norway.
- [Goldsmith(2003)] Goldsmith, R. (2003) Real world hardware evolution: A mobile platform for sensor evolution. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 355–364, Springer-Verlag, Trondheim, Norway.
- [Greensted & Tyrrell(2003)] Greensted, A.J. & Tyrrell, A.M. (2003) Fault tolerance via endocrinologic based communication for multiprocessor systems. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 24–34, Springer-Verlag, Trondheim, Norway.
- [Kumar & Bentley(2003)] Kumar, S. & Bentley, P.J. (2003) Biologically inspired evolutionary development. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 57–68, Springer-Verlag, Trondheim, Norway.
- [Li & Lim(2003)] Li, J.H. & Lim, M.H. (2003) Evolvable fuzzy system for ATM cell scheduling. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 208–217, Springer-Verlag, Trondheim, Norway.
- [Lohn *et al.*(2003)Lohn, Larchev & DeMara] Lohn, J., Larchev, G. & DeMara, R. (2003) A genetic representation for evolutionary fault recovery in Virtex FPGAs. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 47–56, Springer-Verlag, Trondheim, Norway.
- [Lund *et al.*(2003)Lund, Larsen & Østergaard] Lund, H.H., Larsen, R.L. & Østergaard, E.H. (2003) Distributed control in self-reconfigurable robots. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 296–307, Springer-Verlag, Trondheim, Norway.
- [Miller & Thomson(2003)] Miller, J.F. & Thomson, P. (2003) A developmental method for growing graphs and circuits. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 93–104, Springer-Verlag, Trondheim, Norway.
- [Ortega-Sanchez *et al.*(2003)Ortega-Sanchez, Torres-Jimenez & Morales-Cruz] Ortega-Sanchez, C., Torres-Jimenez, J. & Morales-Cruz, J. (2003) Routing of embryonic arrays using genetic algorithms. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 249–261, Springer-Verlag, Trondheim, Norway.
- [Østergaard & Lund(2003)] Østergaard, E.H. & Lund, H.H. (2003) Co-evolving complex robot behavior. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 308–319, Springer-Verlag, Trondheim, Norway.

- [Roggen *et al.*(2003)] Roggen, D., Floreano, D. & Mattiussi, C. (2003) A morphogenetic evolutionary system: Phylogenesis of the POETic circuit. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 153–164, Springer-Verlag, Trondheim, Norway.
- [Schmitz *et al.*(2003)] Schmitz, T., Hohmann, S., Meier, K., Schemmel, J. & Schurmann, F. (2003) Speeding up hardware evolution: A coprocessor for evolutionary algorithms. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 274–285, Springer-Verlag, Trondheim, Norway.
- [Schnier & Yao(2003)] Schnier, T. & Yao, X. (2003) Using negative correlation to evolve fault-tolerant circuits. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 35–46, Springer-Verlag, Trondheim, Norway.
- [Sekanina(2003)] Sekanina, L. (2003) Virtual reconfigurable circuits for real-world applications of evolvable hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 186–197, Springer-Verlag, Trondheim, Norway.
- [Smith *et al.*(2003)] Smith, S.L., Crouch, D.P. & Tyrrell, A.M. (2003) Evolving image processing operations for an evolvable hardware environment. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 332–343, Springer-Verlag, Trondheim, Norway.
- [Tanaka *et al.*(2003)] Tanaka, F., Kameda, A., Yamamoto, M. & Ohuchi, A. (2003) The effect of the bulge loop upon the hybridization process in DNA computing. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 446–456, Springer-Verlag, Trondheim, Norway.
- [Tempesti *et al.*(2003)] Tempesti, G., Roggen, D., Sanchez, E., Thoma, Y., Canham, R. & Tyrrell, A.M. (2003) Ontogenetic development and fault tolerance in the POETic tissue. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 141–152, Springer-Verlag, Trondheim, Norway.
- [Teuscher & Capcarrere(2003)] Teuscher, C. & Capcarrere, M.S. (2003) On fireflies, cellular systems, and evolvable hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 1–12, Springer-Verlag, Trondheim, Norway.
- [Torresen(2003)] Torresen, J. (2003) Evolving multiplier circuits by training set and training vector partitioning. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 228–237, Springer-Verlag, Trondheim, Norway.
- [Tufte & Haddow(2003)] Tufte, G. & Haddow, P.C. (2003) Building knowledge into developmental rules for circuit design. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 69–80, Springer-Verlag, Trondheim, Norway.
- [Tyrrell *et al.*(2003)] Tyrrell, A.M., Sanchez, E., Floreano, D., Tempesti, G., Mange, D., Moreno, J.M., Rosenberg, J. & Villa, A.E.P. (2003) POETic tissue: An integrated architecture for bio-inspired hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 129–140, Springer-Verlag, Trondheim, Norway.

- [Van Belle *et al.*(2003)Van Belle, Mens & D'Hondt] Van Belle, W., Mens, T. & D'Hondt, T. (2003) Using genetic programming to generate protocol adaptors for interprocess communication. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 422–433, Springer-Verlag, Trondheim, Norway.
- [van de Haar & Hoekstra(2003)] van de Haar, R. & Hoekstra, J. (2003) Simulation of a neural node using SET technology. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 377–386, Springer-Verlag, Trondheim, Norway.
- [van Remortel *et al.*(2003)van Remortel, Ceuppens, Defaweux, Lenaerts & Manderick] van Remortel, P., Ceuppens, J., Defaweux, A., Lenaerts, T. & Manderick, B. (2003) Developmental effects on tuneable fitness landscapes. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 117–128, Springer-Verlag, Trondheim, Norway.
- [Venkateswaran & Chandramouli(2003)] Venkateswaran, N. & Chandramouli, C. (2003) General purpose processor architecture for modeling stochastic biological neuronal assemblies. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 387–397, Springer-Verlag, Trondheim, Norway.
- [Yasunaga *et al.*(2003)Yasunaga, Yoshihara & Kim] Yasunaga, M., Yoshihara, I. & Kim, J.H. (2003) Gene finding using evolvable reasoning hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 198–207, Springer-Verlag, Trondheim, Norway.
- [Zebulum *et al.*(2003)Zebulum, Stoica, Keymeulen, Ferguson, Duong, Guo & Vorperian] Zebulum, R.S., Stoica, A., Keymeulen, D., Ferguson, M.I., Duong, V., Guo, X. & Vorperian, V. (2003) Automatic evolution of signal separators using reconfigurable hardware. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 286–295, Springer-Verlag, Trondheim, Norway.
- [Zinchenko *et al.*(2003)Zinchenko, Muhlenbein, Kureichik & Mahnig] Zinchenko, L., Muhlenbein, H., Kureichik, V. & Mahnig, T. (2003) A comparison of different circuit representations for evolutionary analog circuit design. *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003* (eds. A.M. Tyrrell, P.C. Haddow & J. Torresen), vol. 2606 of *LNCS*, pp. 13–23, Springer-Verlag, Trondheim, Norway.