Список литературы

[Aguirre et al.(2003)Aguirre, Equihua and Coello Coello] **Aguirre, A. H., Equihua, E. C. G. and Coello Coello, C. A.** (2003). Synthesis of boolean functions using information theory. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Araujo et al.(2003)Araujo, Mesquita and Pedroza] **Araujo, S. G., Mesquita, A. and Pedroza, A. C. P.** (2003). Using genetic programming and high level synthesis to design optimized datapath. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Aunet and Hartmann(2003)] **Aunet, S. and Hartmann, M.** (2003). Real-time reconfigurable linear threshold elements and some applications to neural hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Azhar and Dimond(2003)] **Azhar, M. A. H. B. and Dimond, K. R.** (2003). Hardware implementation of a genetic controller and effects of training on evolution. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Bentley(2003)] **Bentley, P. J.** (2003). Evolving fractal proteins. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Blynel(2003)] **Blynel, J.** (2003). Evolving reinforcement learning-like abilities for robots. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Canham and Tyrrell(2003)] **Canham, R. and Tyrrell, A. M.** (2003). A learning, multi-layered, hardware artificial immune system implemented upon an embryonic array. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Coello et al.(2003)Coello, Luna and Aguirre] **Coello, C. A. C., Luna, E. H. and Aguirre, A. H.** (2003). Use of particle swarm optimization to design combinational logic circuits. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Corno et al.(2003)Corno, Cumani and Squillero] **Corno, F., Cumani, F. and Squillero, G.** (2003). Exploiting auto-adaptive μ-GP for highly effective test programs generation. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[de Degaris et al.(2003)de Degaris, Gaur and Sriram] **de Degaris, H., Gaur, A. and Sriram, R.** (2003). Quantum versus evolutionary systems. total versus sampled search. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Downing(2003)] **Downing, K. L.** (2003). Developmental models for emergent computation. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware,*

Fifth International Conference, ICES 2003, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Eriksson et al.(2003)Eriksson, Torres, Mitchell, Tucker, Lindsay, Halliday, Rosenberg, Moreno and Villa] **Eriksson, J., Torres, O., Mitchell, A., Tucker, G., Lindsay, K., Halliday, D., Rosenberg, J., Moreno, J.-M. and Villa, A. E. P.** (2003). Spiking neural networks for reconfigurable POEtic tissue. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Estrada(2003)] **Estrada, G. G.** (2003). A note on designing logical circuits using SAT. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Garvie and Thompson(2003)] **Garvie, M. and Thompson, A.** (2003). Evolution of self-diagnosing hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Goldsmith(2003)] **Goldsmith, R.** (2003). Real world hardware evolution: A mobile platform for sensor evolution. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Greensted and Tyrrell(2003)] **Greensted, A. J. and Tyrrell, A. M.** (2003). Fault tolerance via endocrinologic based communication for multiprocessor systems. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Kumar and Bentley(2003)] **Kumar, S. and Bentley, P. J.** (2003). Biologically inspired evolutionary development. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Li and Lim(2003)] **Li, J. H. and Lim, M. H.** (2003). Evolvable fuzzy system for ATM cell scheduling. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Lohn et al.(2003)Lohn, Larchev and DeMara] **Lohn, J., Larchev, G. and DeMara, R.** (2003). A genetic representation for evolutionary fault recovery in Virtex FPGAs. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Lund et al.(2003)Lund, Larsen and Østergaard] **Lund, H. H., Larsen, R. L. and Østergaard, E. H.** (2003). Distributed control in self-reconfigurable robots. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Miller and Thomson(2003)] **Miller, J. F. and Thomson, P.** (2003). A developmental method for growing graphs and circuits. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Ortega-Sanchez et al.(2003)Ortega-Sanchez, Torres-Jimenez and Morales-Cruz] **Ortega-Sanchez, C., Torres-Jimenez, J. and Morales-Cruz, J.** (2003). Routing of embryonic arrays using genetic algorithms. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Østergaard and Lund(2003)] **Østergaard, E. H. and Lund, H. H.** (2003). Co-evolving complex robot behavior. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Roggen et al.(2003)Roggen, Floreano and Mattiussi] **Roggen, D., Floreano, D. and Mattiussi, C.** (2003). A morphogenetic evolutionary system: Phylogenesis of the POEtic circuit. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Schmitz et al.(2003)Schmitz, Hohmann, Meier, Schemmel and Schurmann] **Schmitz, T., Hohmann, S., Meier, K., Schemmel, J. and Schurmann, F.** (2003). Speeding up hardware evolution: A coprocessor for evolutionary algorithms. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Schnier and Yao(2003)] **Schnier, T. and Yao, X.** (2003). Using negative correlation to evolve fault-tolerant circuits. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Sekanina(2003)] **Sekanina, L.** (2003). Virtual reconfigurable circuits for real-world applications of evolvable hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Smith et al.(2003)Smith, Crouch and Tyrrell] **Smith, S. L., Crouch, D. P. and Tyrrell, A. M.** (2003). Evolving image processing operations for an evolvable hardware environment. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Tanaka et al.(2003)Tanaka, Kameda, Yamamoto and Ohuchi] **Tanaka, F., Kameda, A., Yamamoto, M. and Ohuchi, A.** (2003). The effect of the bulge loop upon the hybridization process in DNA computing. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Tempesti et al.(2003)Tempesti, Roggen, Sanchez, Thoma, Canham and Tyrrell] **Tempesti, G., Roggen, D., Sanchez, E., Thoma, Y., Canham, R. and Tyrrell, A. M.** (2003). Ontogenetic development and fault tolerance in the POEtic tissue. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Teuscher and Capcarrere(2003)] **Teuscher, C. and Capcarrere, M. S.** (2003). On fireflies, cellular systems, and evolware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Torresen(2003)] **Torresen, J.** (2003). Evolving multiplier circuits by training set and training vector partitioning. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Tufte and Haddow(2003)] **Tufte, G. and Haddow, P. C.** (2003). Building knowledge into developmental rules for circuit design. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Tyrrell et al.(2003)Tyrrell, Sanchez, Floreano, Tempesti, Mange, Moreno, Rosenberg and Villa] **Tyrrell, A. M., Sanchez, E., Floreano, D., Tempesti, G., Mange, D., Moreno, J.-M., Rosenberg, J. and Villa, A. E. P.** (2003). POEtic tissue: An integrated architecture for bio-inspired hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Van Belle et al.(2003)Van Belle, Mens and D'Hondt] **Van Belle, W., Mens, T. and D'Hondt, T.** (2003). Using genetic programming to generate protocol adaptors for interprocess communication. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[van de Haar and Hoekstra(2003)] **van de Haar, R. and Hoekstra, J.** (2003). Simulation of a neural node using SET technology. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[van Remortel et al.(2003)van Remortel, Ceuppens, Defaweux, Lenaerts and Manderick] **van Remortel, P., Ceuppens, J., Defaweux, A., Lenaerts, T. and Manderick, B.** (2003). Developmental effects on tuneable fitness landscapes. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Venkateswaran and Chandramouli(2003)] **Venkateswaran, N. and Chandramouli, C.** (2003). General purpose processor architecture for modeling stochastic biological neuronal assemblies. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Yasunaga et al.(2003)Yasunaga, Yoshihara and Kim] **Yasunaga, M., Yoshihara, I. and Kim, J. H.** (2003). Gene finding using evolvable reasoning hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Zebulum et al.(2003)Zebulum, Stoica, Keymeulen, Ferguson, Duong, Guo and Vorperian] **Zebulum, R. S., Stoica, A., Keymeulen, D., Ferguson, M. I., Duong, V., Guo, X. and Vorperian, V.** (2003). Automatic evolution of signal separators using reconfigurable hardware. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.

[Zinchenko et al.(2003)Zinchenko, Muhlenbein, Kureichik and Mahnig] **Zinchenko, L., Muhlenbein, H., Kureichik, V. and Mahnig, T.** (2003). A comparison of different circuit representations for evolutionary analog circuit design. In A. M. Tyrrell, P. C. Haddow and J. Torresen, eds., *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, volume 2606 of *LNCS*. Trondheim, Norway: Springer-Verlag. ISBN 3-540-00730-X.