

Список литературы

- [AD03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 344–354. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [AEC03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 218–227. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [AH03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 365–376. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [AMP03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 434–445. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Ben03] P. J. Bentley, “Evolving fractal proteins,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 81–92. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Bly03] J. Blynel, “Evolving reinforcement learning-like abilities for robots,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 320–331. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [CCS03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 262–273. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [CLA03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 398–409. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [CT03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim,

- Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 174–185. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [dGS03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 457–466. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Dow03] K. L. Downing, “Developmental models for emergent computation,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 105–116. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Est03] G. G. Estrada, “A note on designing logical circuits using SAT,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 410–421. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [ETM⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 165–173. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Gol03] R. Goldsmith, “Real world hardware evolution: A mobile platform for sensor evolution,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 355–364. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [GT03a] M. Garvie and A. Thompson, “Evolution of self-diagnosing hardware,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 238–248. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [GT03b] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 24–34. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [KB03] S. Kumar and P. J. Bentley, “Biologically inspired evolutionary development,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 57–68. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [LL03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 208–217. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X

- [LLD03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 47–56. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [LLØ03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 296–307. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [MT03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 93–104. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [ØL03] E. H. Østergaard and H. H. Lund, "Co-evolving complex robot behavior," in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 308–319. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [OSTJMC03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 249–261. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [RFM03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 153–164. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [SCT03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 332–343. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Sek03] L. Sekanina, "Virtual reconfigurable circuits for real-world applications of evolvable hardware," in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 186–197. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [SHM⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 274–285. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X

- [SY03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 35–46. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [TC03] C. Teuscher and M. S. Capcarrere, “On fireflies, cellular systems, and evolware,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 1–12. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [TH03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 69–80. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [TKYO03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 446–456. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [Tor03] J. Torresen, “Evolving multiplier circuits by training set and training vector partitioning,” in *Evolvable Systems: From Biology to Hardware, Fifth International Conference, ICES 2003*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 228–237. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [TRS⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 141–152. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [TSF⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 129–140. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [VC03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 387–397. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [vCD⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 117–128. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X

- [vH03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 377–386. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [VMD03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 422–433. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [YYK03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 198–207. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [ZMKM03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 13–23. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X
- [ZSK⁺03] 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*, ser. LNCS, A. M. Tyrrell, P. C. Haddow, and J. Torresen, Eds., vol. 2606. Trondheim, Norway: Springer-Verlag, 17-20 Mar. 2003, pp. 286–295. [Online]. Available: http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-00730-X