Список литературы

[Aggarwal(2003)] Aggarwal, V. (2003) 'Evolving sinusoidal oscillators using genetic algorithms'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 67–76. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Aguirre and Coello(2003)] Aguirre, A. and Coello, C. (2003) 'Fitness landscape and evolutionary boolean synthesis using information theory concepts'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 13–20. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Amaral *et al.*(2003)Amaral, Santini, Tanscheit, Vellasco, Pacheco and Mesquita] Amaral, J.F., Santini, C., Tanscheit, R., Vellasco, M., Pacheco, M. and Mesquita, A. (2003) 'Evolvable building blocks for analog fuzzy logic controllers'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 101–110. Available at: EHWhttp://ehw.jpl.nasa.gov.

[A.Stoica *et al.*(2003)A.Stoica, R.Zebulum, X.Guo, D.Keymeulen, Duong and M.I.Ferguson] A.Stoica, R.Zebulum, X.Guo, D.Keymeulen, Duong, V. and M.I.Ferguson (2003) 'Silicon validation of evolution-designed circuits'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 21–25. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Botelho *et al.*(2003)Botelho, Leonardo, Vieira and Mesquita] Botelho, J., Leonardo, B., Vieira, P. and Mesquita, A. (2003) 'An experiment on nonlinear synthesis using evolutionary techniques based only on cmos transistors'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 50–58. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Coello *et al.*(2003)Coello, Alba, Luque and Aguirre] Coello, C., Alba, E., Luque, G. and Aguirre, A. (2003) 'Comparing different serial and parallel heuristics to design combinatorial logic circuits'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 3–12. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Dinerstein *et al.*(2003)Dinerstein, Dinerstein and de Garis] Dinerstein, J., Dinerstein, N. and de Garis, H. (2003) 'Automatic multi-module neural network evolution in an artificial brain'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 273–276. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Gallagher(2003)] Gallagher, J. (2003) 'The once and future anaolg alternative: Evolvable hardware and analog computation'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 43–49. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Garvie and Thompson(2003)] Garvie, M. and Thompson, A. (2003) 'Evolution of combinationial and sequential on-line self-diagnosing hardware'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 167–173. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Greenwood *et al.*(2003)Greenwood, Ramsden and Ahmed] Greenwood, G., Ramsden, E. and Ahmed, S. (2003) 'An empirical comparison of evolutionary algorithms for evolvable hardware with

minimum time-to-reconfigure requirements'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 59–66. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Gwaltney and Ferguson(2003)] Gwaltney, D. and Ferguson, M.I. (2003) 'Intrinsic hardware evolution for the design and reconfiguration of analog speed controllers for a dc motor'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 81–90. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Harding and Miller(2003)] Harding, S. and Miller, J.F. (2003) 'A scalable platform for intrinsic hardware and in materio evolution'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 221–224. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Jackson *et al.*(2003)Jackson, Canham and Tyrrell] Jackson, A.H., Canham, R. and Tyrrell, A.M. (2003) 'Robot fault-tolerance using and embryonic array'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 91–100. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Kamio *et al.*(2003)Kamio, Liu, Mitsuhasi and Iba] Kamio, S., Liu, H., Mitsuhasi, H. and Iba, H. (2003) 'Researches on ingeniously behaving agents'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 208–220. Available at: http://ieeexplore.ieee.org/iel5/8637/27376/01217668.pdf?tp=&arnumber=1217668&isnumber=27376.

[Koza *et al.*(2003)Koza, Keane and Streeter] Koza, J., Keane, M. and Streeter, M. (2003) 'the importance of reuse and development in evolvable hardware'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 33–42. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Kramer and Gallagher(2003)] Kramer, G.R. and Gallagher, J. (2003) 'Improvements to the *cga enabling online intrinsic evolution in compact eh devices'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 225–234. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Louis(2003)] Louis, S.J. (2003) 'Learning for evolutionary design'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 17–21. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Plante *et al.*(2003)Plante, Shaw, Mickens and Johnson-Be] Plante, J., Shaw, H., Mickens, L. and Johnson-Be, C. (2003) 'Overview of field programmable analog arrays as enabling technology for evolvable hardware for high reliability systems'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 77–78. Available at: EHWhttp://ehw.jpl.nasa.gov.

[R. Canham and Tyrrell(2003)] R. Canham, A.H.J. and Tyrrell, A. (2003) 'Robot error detection using an artificial immune system'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 199–207. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Roggen *et al.*(2003)Roggen, Hofmann, Thoma and Floreano] Roggen, D., Hofmann, S., Thoma, Y. and Floreano, D. (2003) 'Hardware spiking neural network with run-time reconfigurable connectivity in and autonomous robot'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 189–198. Available at: EHWhttp://ehw.jpl.nasa.gov.

[R.Zebulum *et al.*(2003)R.Zebulum, A.Stoica, X.Guo, D.Keymeulen, Duong and M.I.Ferguson] R.Zebulum, A.Stoica, X.Guo, D.Keymeulen, Duong, V. and M.I.Ferguson (2003) 'Experimental results in evolutionary fault-recovery for field programmble'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 182–188. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Sayama(2003)] Sayama, H. (2003) 'Self-protection maintains diversity of artificial self-replicators evolving in cellular automata'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 242–254. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Sekanina and Ruzicka(2003)] Sekanina, L. and Ruzicka, R. (2003) 'Easily testable image operators: The class of circuits where evolution beats engineers'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 135–144. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Shanthi and R.Parthasarathi(2003)] Shanthi, A.P. and R.Parthasarathi (2003) 'Exploring fpga structures for evolving fault tolerant hardware'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 174–181. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Stauffer and Sipper(2003)] Stauffer, A. and Sipper, M. (2003) 'Data and signals: A new kind of cellular automation for growing systems'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 235–241. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Takahashi *et al.*(2003)Takahashi, Murakawa, Kasai and Higuchi] Takahashi, E., Murakawa, M., Kasai, Y. and Higuchi, T. (2003) 'Power dissipation reductions with genetic algorithms'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 111–116. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Tempesti *et al.*(2003)Tempesti, Mange, Petraglio, Stauffer and Thoma] Tempesti, G., Mange, D., Petraglio, E., Stauffer, A. and Thoma, Y. (2003) 'Developmental processes in silicon: An engineering perspective'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 255–264. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Thomson and Arslan(2003)] Thomson, R. and Arslan, T. (2003) 'The evolutionary design and synthesis of non-linear digital vlsi systems'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 125–134. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Tian and Arslan(2003)] Tian, L. and Arslan, T. (2003) 'An evolutionary power management algorithm for soc based ehw ststems'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA

Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 117–124. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Vinger and Torresen(2003)] Vinger, K. and Torresen, J. (2003) 'Implementing evolution of fir-filters efficiently in an fpga'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 26–29. Available at: EHWhttp://ehw.jpl.nasa.gov.

[Zinchenko and Sorokin(2003)] Zinchenko, L. and Sorokin, S. (2003) 'Fitness estimations for evolutionary antenna design'. In J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica and M.I. Ferguson, (eds.) *2003 NASA/DoD Conference on Evolvable Hardware*. NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society, pp. 155–166. Available at: EHWhttp://ehw.jpl.nasa.gov.