

Список литературы

- [1] V. Aggarwal, “Evolving sinusoidal oscillators using genetic algorithms,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 67–76. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [2] A. Aguirre and C. Coello, “Fitness landscape and evolutionary boolean synthesis using information theory concepts,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 13–20. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [3] J. F. Amaral, C. Santini, R. Tanscheit, M. Vellasco, M. Pacheco, and A. Mesquita, “Evolvable building blocks for analog fuzzy logic controllers,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 101–110. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [4] A. Stoica, R. Zebulum, X. Guo, D. Keymeulen, V. Duong, and M. I. Ferguson, “Silicon validation of evolution-designed circuits,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 21–25. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [5] J. Botelho, B. Leonardo, P. Vieira, and A. Mesquita, “An experiment on nonlinear synthesis using evolutionary techniques based only on cmos transistors,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 50–58. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [6] C. Coello, E. Alba, G. Luque, and A. Aguirre, “Comparing different serial and parallel heuristics to design combinatorial logic circuits,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 3–12. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [7] J. Dinerstein, N. Dinerstein, and H. de Garis, “Automatic multi-module neural network evolution in an artificial brain,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 273–276. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [8] J. Gallagher, “The once and future analog alternative: Evolvable hardware and analog computation,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 43–49. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [9] M. Garvie and A. Thompson, “Evolution of combinational and sequential on-line self-diagnosing hardware,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 167–173. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [10] G. Greenwood, E. Ramsden, and S. Ahmed, “An empirical comparison of evolutionary algorithms for evolvable hardware with minimum time-to-reconfigure requirements,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 59–66. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)

- [11] D. Gwaltney and M. I. Ferguson, "Intrinsic hardware evolution for the design and reconfiguration of analog speed controllers for a dc motor," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 81–90. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [12] S. Harding and J. F. Miller, "A scalable platform for intrinsic hardware and in materio evolution," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 221–224. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [13] A. H. Jackson, R. Canham, and A. M. Tyrrell, "Robot fault-tolerance using and embryonic array," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 91–100. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [14] S. Kamio, H. Liu, H. Mitsuhashi, and H. Iba, "Researches on ingeniously behaving agents," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 208–220. [Online]. Available: <http://ieeexplore.ieee.org/iel5/8637/27376/01217668.pdf?tp=&arnumber=1217668&isnumber=27376>
- [15] J. Koza, M. Keane, and M. Streeter, "the importance of reuse and development in evolvable hardware," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 33–42. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [16] G. R. Kramer and J. Gallagher, "Improvements to the *cga enabling online intrinsic evolution in compact eh devices," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 225–234. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [17] S. J. Louis, "Learning for evolutionary design," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 17–21. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [18] J. Plante, H. Shaw, L. Mickens, and C. Johnson-Be, "Overview of field programmable analog arrays as enabling technology for evolvable hardware for high reliability systems," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 77–78. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [19] A. H. J. R. Canham and A. Tyrrell, "Robot error detection using an artificial immune system," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 199–207. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [20] D. Roggen, S. Hofmann, Y. Thoma, and D. Floreano, "Hardware spiking neural network with run-time reconfigurable connectivity in an autonomous robot," in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 189–198. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)

- [21] R.Zebulum, A.Stoica, X.Guo, D.Keymeulen, V. Duong, and M.I.Ferguson, “Experimental results in evolutionary fault-recovery for field programmable,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 182–188. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [22] H. Sayama, “Self-protection maintains diversity of artificial self-replicators evolving in cellular automata,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 242–254. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [23] L. Sekanina and R. Ruzicka, “Easily testable image operators: The class of circuits where evolution beats engineers,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 135–144. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [24] A. P. Shanthi and R.Parthasarathi, “Exploring fpga structures for evolving fault tolerant hardware,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 174–181. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [25] A. Stauffer and M. Sipper, “Data and signals: A new kind of cellular automation for growing systems,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 235–241. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [26] E. Takahashi, M. Murakawa, Y. Kasai, and T. Higuchi, “Power dissipation reductions with genetic algorithms,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 111–116. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [27] G. Tempesti, D. Mange, E. Petraglio, A. Stauffer, and Y. Thoma, “Developmental processes in silicon: An engineering perspective,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 255–264. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [28] R. Thomson and T. Arslan, “The evolutionary design and synthesis of non-linear digital vlsi systems,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 125–134. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [29] L. Tian and T. Arslan, “An evolutionary power management algorithm for soc based ehw systems,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 117–124. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)
- [30] K. Vinger and J. Torresen, “Implementing evolution of fir-filters efficiently in an fpga,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 26–29. [Online]. Available: [EHWhhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)

- [31] L. Zinchenko and S. Sorokin, “Fitness estimations for evolutionary antenna design,” in *2003 NASA/DoD Conference on Evolvable Hardware*, J. Lohn, R. Zebulum, J. Steincamp, D. Keymeulen, A. Stoica, and M. I. Ferguson, Eds., NASA Ames Research Center. Chicago, Illinois: IEEE Computer Society, 9-11 July 2003, pp. 155–166. [Online]. Available: [EHWhttp://ehw.jpl.nasa.gov](http://ehw.jpl.nasa.gov)