## Список литературы

- [Aggarwal(2003)] Aggarwal, V. (2003). Evolving sinusoidal oscillators using genetic algorithms. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Aguirre & Coello(2003)] Aguirre, A. & Coello, C. (2003). Fitness landscape and evolutionary boolean synthesis using information theory concepts. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Amaral et al.(2003)Amaral, Santini, Tanscheit, Vellasco, Pacheco & Mesquita] Amaral, J. F., Santini, C., Tanscheit, R., Vellasco, M., Pacheco, M. & Mesquita, A. (2003). Evolvable building blocks for analog fuzzy logic controllers. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [A.Stoica et al.(2003)A.Stoica, R.Zebulum, X.Guo, D.Keymeulen, Duong & M.I.Ferguson]
  A.STOICA, R.ZEBULUM, X.GUO, D.KEYMEULEN, DUONG, V. & M.I.FERGUSON (2003).
  Silicon validation of evolution-designed circuits. In: 2003 NASA/DoD Conference on Evolvable
  Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. &
  FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer
  Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Botelho et al.(2003)Botelho, Leonardo, Vieira & Mesquita] BOTELHO, J., LEONARDO, B., VIEIRA, P. & MESQUITA, A. (2003). An experiment on nonlinear synthesis using evolutionary techniques based only on cmos transistors. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Coello et al. (2003) Coello, Alba, Luque & Aguirre] Coello, C., Alba, E., Luque, G. & Aguirre, A. (2003). Comparing different serial and parallel heuristics to design combinatorial logic circuits. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Dinerstein et al.(2003)Dinerstein, Dinerstein & de Garis] Dinerstein, J., Dinerstein, N. & DE Garis, H. (2003). Automatic multi-module neural network evolution in an artificial brain. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Gallagher (2003)] Gallagher, J. (2003). The once and future analog alternative: Evolvable hardware and analog computation. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Garvie & Thompson(2003)] Garvie, M. & Thompson, A. (2003). Evolution of combinationial and sequential on-line self-diagnosing hardware. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Greenwood et al. (2003) Greenwood, Ramsden & Ahmed] Greenwood, G., Ramsden, E. & Ahmed, S. (2003). An empirical comparison of evolutionary algorithms for evolvable hardware

- with minimum time-to-reconfigure requirements. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Gwaltney & Ferguson(2003)] GWALTNEY, D. & FERGUSON, M. I. (2003). Intrinsic hardware evolution for the design and reconfiguration of analog speed controllers for a dc motor. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Harding & Miller(2003)] HARDING, S. & MILLER, J. F. (2003). A scalable platform for intrinsic hardware and in materio evolution. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Jackson et al.(2003)Jackson, Canham & Tyrrell] Jackson, A. H., Canham, R. & Tyrrell, A. M. (2003). Robot fault-tolerance using and embryonic array. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Kamio et al.(2003)Kamio, Liu, Mitsuhasi & Iba] KAMIO, S., LIU, H., MITSUHASI, H. & IBA, H. (2003). Researches on ingeniously behaving agents. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL http://ieeexplore.ieee.org/iel5/8637/27376/01217668.pdf?tp=&arnumber=1217668&isnumber=27376.
- [Koza et al.(2003)Koza, Keane & Streeter] Koza, J., Keane, M. & Streeter, M. (2003). the importance of reuse and development in evolvable hardware. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Kramer & Gallagher (2003)] Kramer, G. R. & Gallagher, J. (2003). Improvements to the \*cga enabling online intrinsic evolution in compact eh devices. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Louis(2003)] LOUIS, S. J. (2003). Learning for evolutionary design. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Plante et al.(2003)Plante, Shaw, Mickens & Johnson-Be] Plante, J., Shaw, H., Mickens, L. & Johnson-Be, C. (2003). Overview of field programmable analog arrays as enabling technology for evolvable hardware for high reliability systems. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [R. Canham & Tyrrell(2003)] R. CANHAM, A. H. J. & TYRRELL, A. (2003). Robot error detection using an artificial immune system. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.

- [Roggen et al.(2003)Roggen, Hofmann, Thoma & Floreano] ROGGEN, D., HOFMANN, S., THOMA, Y. & FLOREANO, D. (2003). Hardware spiking neural network with run-time reconfigurable connectivity in and autonomous robot. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [R.Zebulum et al.(2003) R.Zebulum, A.Stoica, X.Guo, D.Keymeulen, Duong & M.I.Ferguson]
  R.Zebulum, A.Stoica, X.Guo, D.Keymeulen, Duong, V. & M.I.Ferguson (2003).
  Experimental results in evolutionary fault-recovery for field programmble. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Sayama(2003)] SAYAMA, H. (2003). Self-protection maintains diversity of artificial self-replicators evolving in cellular automata. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw. jpl.nasa.gov.
- [Sekanina & Ruzicka(2003)] SEKANINA, L. & RUZICKA, R. (2003). Easily testable image operators: The class of circuits where evolution beats engineers. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Shanthi & R.Parthasarathi(2003)] Shanthi, A. P. & R.Parthasarathi (2003). Exploring fpga structures for evolving fault tolerant hardware. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Stauffer & Sipper(2003)] STAUFFER, A. & SIPPER, M. (2003). Data and signals: A new kind of cellular automation for growing systems. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Takahashi et al.(2003)Takahashi, Murakawa, Kasai & Higuchi] Takahashi, E., Murakawa, M., Kasai, Y. & Higuchi, T. (2003). Power dissipation reductions with genetic algorithms. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Tempesti et al.(2003)Tempesti, Mange, Petraglio, Stauffer & Thoma] TEMPESTI, G., MANGE, D., PETRAGLIO, E., STAUFFER, A. & THOMA, Y. (2003). Developmental processes in silicon: An engineering perspective. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Thomson & Arslan(2003)] Thomson, R. & Arslan, T. (2003). The evolutionary design and synthesis of non-linear digital vlsi systems. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Tian & Arslan(2003)] Tian, L. & Arslan, T. (2003). An evolutionary power management algorithm for soc based ehw ststems. In: 2003 NASA/DoD Conference on Evolvable Hardware (Lohn, J., Zebulum, R., Steincamp, J., Keymeulen, D., Stoica, A. & Ferguson, M. I., eds.). NASA

- Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Vinger & Torresen(2003)] VINGER, K. & TORRESEN, J. (2003). Implementing evolution of fir-filters efficiently in an fpga. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.
- [Zinchenko & Sorokin(2003)] ZINCHENKO, L. & SOROKIN, S. (2003). Fitness estimations for evolutionary antenna design. In: 2003 NASA/DoD Conference on Evolvable Hardware (LOHN, J., ZEBULUM, R., STEINCAMP, J., KEYMEULEN, D., STOICA, A. & FERGUSON, M. I., eds.). NASA Ames Research Center, Chicago, Illinois: IEEE Computer Society. URL EHWhttp://ehw.jpl.nasa.gov.