



Search:

Go

Advanced Search

[Home](#)   [Digital Library](#)   [Site Map](#)   [Store](#)   [Help](#)   [Contact Us](#)   [Press Room](#)   [Shopping Cart](#)[Login](#)

# digital library

**DIGITAL LIBRARY HOME****BROWSE BY TITLE**[Archive Page >>](#) [Table of Contents >>](#) [Abstract](#)**BROWSE BY SUBJECT****SEARCH**

2005 NASA/DoD Conference on Evolvable Hardware (EH'05) pp. 294-297

**LIBRARY/INSTITUTION  
RESOURCES****Cellular Learning Automata based Evolutionary Computing  
(CLA-EC) for Intrinsic Hardware Evolution****RESOURCES**

A. Hariri, Shahid Beheshti University, Iran  
R. Rastegar, Amirkabir University of Technology, Iran  
K. Navi, Shahid Beheshti University, Iran  
M. S. Zamani, Amirkabir University of Technology, Iran  
M. R. Meybodi, Amirkabir University of Technology, Iran

**SUBSCRIPTION****ABOUT THE DIGITAL LIBRARY**

Full Article Text: PDF BUY ARTICLE

**DOI Bookmark:** <http://doi.ieeecomputersociety.org/10.1109/EH.2005.12>**Abstract**

Evolvable Hardware (EHW) deals with the application of evolutionary algorithms in hardware design. In intrinsic EHW, the evolutionary algorithm or the fitness evaluation is implemented in hardware. In this case, there is a need for hardware-friendly algorithms. In this work, we introduce Cellular Learning Automata based Evolutionary Computing (CLA-EC) as a new

**Abstract Contents:**  
[Abstract](#)  
[Citation](#)**Free access to**

- Abstracts
- Selected PDFs

**Electronic subscribers log  
in to**

- Access HTML/PDFs of full text articles
- Download full issue (ZIP of PDFs)

[Subscription information](#)[Get a Web account](#)

algorithm for intrinsic hardware evolution. The parallel structure of CLA-EC makes it suitable for EHW. Therefore, in this work we consider the application of this algorithm to EHW.

---

**Additional Information**[Back to Top](#)

**Citation:** A. Hariri, R. Rastegar, K. Navi, M. S. Zamani, M. R. Meybodi.

"Cellular Learning Automata based Evolutionary Computing (CLA-EC) for Intrinsic Hardware Evolution," *eh*, vol. 00, no., pp. 294-297, 2005 2005.

---

Usage of this product signifies your acceptance of the Terms of Use.

This site and all contents (unless otherwise noted) are Copyright © 2005, IEEE, Inc. All rights reserved.