

## Evolvable Systems: From Biology to Hardware



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### ***Reviews***

*Thorough guide for ebook lovers. I am quite late in start reading this one, but better then never. Its been designed in an remarkably straightforward way which is simply soon after i finished reading this publication in which actually altered me, affect the way i think.*

***(Gunner Labadie)***

## EVOLVABLE SYSTEMS: FROM BIOLOGY TO HARDWARE



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Springer. Paperback. Book Condition: New. Paperback. 444 pages. Dimensions: 9.1in. x 6.1in. x 1.1in. In the mid 1990s, researchers began applying Evolutionary Algorithms (EAs) on a kind of computer chip that could dynamically alter the functionality and physical connections of its circuits. This combination of EAs with programmable electronics (e. g. , Field Programmable Gate Arrays (FPGAs) and Field Programmable Analogue Arrays (FPAAs)) spawned a new field of Evolutionary Computation (EC) called Evolvable Hardware (EH) with its first workshop, - wards Evolvable Hardware, held in Lausanne, Switzerland in October 1995. This workshop was followed by the First International Conference on Evolvable Systems: From Biology to Hardware (ICES 96), held in Tsukuba, Japan in October 1996. The second ICES was held in Lausanne, September 1998, the third was in Edinburgh, April 2000, the fourth was in Tokyo, October 2001, the fifth was in Trondheim, March 2003, the sixth was in Sitges, September 2005, and the seventh was in Wuhan, September 2007. Over the years the EH field has expanded beyond the use of EAs on simple electronic devices to encompass many different combinations of EAs and biologically inspired algorithms (BIAs) with various physical devices (or simulations of physical devices). Present research in the field of EH can be split into the two related areas of Evolvable Hardware Design (EHD) and Adaptive Hardware (AH). Evolvable Hardware Design (EHD) is the use of EAs and BIAs for creating physical devices and designs, examples of where EHD has had some success include analogue and digital electronics, antennas, MEMS chips, optical systems as well as quantum circuits. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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