
Electronic Design Automation Synthesis Verification And Test Systems On Silicon

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Electronic design automation, also referred to as electronic computer-aided design, is a category of software tools for designing electronic systems such as integrated circuits and printed circuit boards. The tools work together in a design flow that chip designers use to design and analyze entire semiconductor chips. Since a modern semiconductor chip can have billions of components, EDA tools are essential for their design; this article in particular describes EDA specifically with respect to

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Given an electronic system modeled at the electronic system level (ESL), EDA automates the design and test processes of verifying the correctness of the ESL design against the specifications of the electronic system, taking the ESL design through various synthesis and verification steps, and finally testing the manufactured electronic system to ensure that it meets the specifications and quality requirements of the electronic system.

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