1. Record Nr. UNINA9910299722803321

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Titolo	Automated Design of Analog and High-frequency Circuits : A Computational Intelligence Approach / / by Bo Liu, Georges Gielen, Francisco V. Fernández
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
ISBN	9783642391620 3642391621
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XIII, 235 p. 99 illus.)
Collana	Studies in Computational Intelligence, , 1860-949X ; ; 501
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Basic Concepts and Background -- Fundamentals of Optimization Techniques in Analog IC Sizing -- High-Performance Analog IC Sizing: Advanced Constraint Handling and Search Methods -- Analog Circuit Sizing with Fuzzy Specifications: Addressing Soft Constraints -- Process Variation-aware Analog Circuit Sizing: Uncertain Optimization -- Ordinal Optimization-based Methods for Efficient Variation-aware Analog IC Sizing -- Electromagnetic Design Automation: Surrogate Model Assisted Evolutionary Algorithm -- Passive Components Synthesis at High Frequencies: Handling Prediction Uncertainty -- mm-Wave Linear Amplifier Design Automation: A First Step to Complex Problems -- mm-Wave Nonlinear IC and Complex Antenna Synthesis: Handling High Dimensionality.
Sommario/riassunto	Computational intelligence techniques are becoming more and more important for automated problem solving nowadays. Due to the growing complexity of industrial applications and the increasingly tight time-to-market requirements, the time available for thorough problem analysis and development of tailored solution methods is decreasing.

There is no doubt that this trend will continue in the foreseeable future. Hence, it is not surprising that robust and general automated problem solving methods with satisfactory performance are needed.