

# **Smart Adaptive Systems on Silicon**

Maurizio Valle (Ed.)



Springer Science+Business Media, LLC

# Smart Adaptive Systems On Silicon

**Ying-Ying Zheng**



## **Smart Adaptive Systems On Silicon:**

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recent research results but as a practical guide for experts from other areas and industrial users interested in building solutions to their problems using intelligent techniques One of the main issues covered is an attempt to answer the question of how to select and or combine suitable intelligent techniques from a large pool of potential solutions Another attractive feature of the book is that it brings together experts from neural network fuzzy machine learning evolutionary and hybrid systems communities who will provide their views on how these different intelligent technologies have contributed and will contribute to creation of smart adaptive systems of the future

*Smart CMOS Image Sensors and Applications* Jun Ohta, 2020-05-12 Revised and expanded for this new edition Smart CMOS Image Sensors and Applications Second Edition is the only book available devoted to smart CMOS image sensors and applications The book describes the fundamentals of CMOS image sensors and optoelectronic device physics and introduces typical CMOS image sensor structures such as the active pixel sensor APS Also included are the functions and materials of smart CMOS image sensors and present examples of smart imaging Various applications of smart CMOS image sensors are also discussed Several appendices supply a range of information on constants illuminance MOSFET characteristics and optical resolution Expansion of smart materials smart imaging and applications including biotechnology and optical wireless communication are included Features Covers the fundamentals and applications including smart materials smart imaging and various applications Includes comprehensive references Discusses a wide variety of applications of smart CMOS image sensors including biotechnology and optical wireless communication Revised and expanded to include the state of the art of smart image sensors

**Smart Structures** Vinod K. Wadhawan, 2007-10-18 A structure is an assembly that serves an engineering function A smart structure is one that serves this function smartly i e by responding adaptively in a pre designed useful and efficient manner to changing environmental conditions Adaptive behaviour of one or more materials constituting a smart structure requires nonlinear response This book describes the three main types of nonlinear response materials ferroic materials soft materials and nanostructured materials Information processing by biological and artificial smart structures is also discussed A smart structure typically has sensors actuators and a control system Progress in all these aspects of smart structures has leant heavily on mimicking Nature and the all important notion in this context has been that of evolution Artificial Darwinian and Lamarckian evolution holds the key to the development of truly smart structures Modestly intelligent robots are already on the horizon Projections about the low cost availability of adequate computing power and memory size indicate that the future really belongs to smart structures This book covers in a compact format the entire gamut of concepts relevant to smart structures It should be of interest to a wide range of students and professionals in science and engineering

*Smart Electronic Systems* Li-Rong Zheng, Hannu Tenhunen, Zhuo Zou, 2018-09-06 Unique in focusing on both organic and inorganic materials from a system point of view this text offers a complete overview of printed electronics integrated with classical silicon electronics Following an introduction to the topic the book discusses the materials and processes required for printed

electronics covering conducting semiconducting and insulating materials as well as various substrates such as paper and plastics Subsequent chapters describe the various building blocks for printed electronics while the final part describes the resulting novel applications and technologies including wearable electronics RFID tags and flexible circuit boards Suitable for a broad target group both industrial and academic ranging from mechanical engineers to ink developers and from chemists to engineers

*Smart MemS and Sensor Systems* Elena Gaura, Robert M. Newman, 2006 In recent years MEMS have revolutionized the semiconductor industry with sensors being a particularly buoyant sector Smart MEMS and Sensor Systems presents readers with the means to understand evaluate appreciate and participate in the development of the field from a unique systems perspective The combination of MEMS and integrated intelligence has been put forward as a disruptive technology The full potential of this technology is only evident when it is used to construct very large pervasive sensing systems The book explores the many different technologies needed to build such systems and integrates knowledge from three different domains MEMS technology sensor system electronics and pervasive computing science Throughout the book a top down design perspective is taken be it for the development of a single smart sensor or that of adaptive ad hoc networks of millions of sensors For experts in any of the domains named above the book provides the context for their MEMS based design work and an understanding of the role the other domains play For the generalist either in engineering or computing or the technology manager the underpinning knowledge is provided which can inform specialist decision making

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**Bioengineered and Bioinspired Systems** , 2005

Granular Computing and Decision-Making Witold Pedrycz, Shyi-Ming Chen, 2015-04-21 This volume is devoted to interactive and iterative processes of decision making I2 Fuzzy Decision Making in brief Decision making is inherently interactive Fuzzy sets help realize human machine communication in an efficient way by facilitating a two way interaction in a friendly and transparent manner Human centric interaction is of paramount relevance as a leading guiding design principle of decision support systems The volume provides the reader with an updated and in depth material on the conceptually appealing and practically sound methodology and practice of I2 Fuzzy Decision Making The book engages a wealth of methods of fuzzy sets and Granular Computing brings new concepts architectures and practice of fuzzy decision making providing the reader with various application studies The book is aimed at a broad audience of researchers and practitioners

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