Avtar Singh   S. Srinivasan

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Implementations

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Digital Signal Processing Implementations Avtar Singh,Srini Srinivasan,2004 Whether you are an engineering student or an engineer already engaged in system design this current book will become your essential companion guiding you in using both hardware and software as you design systems with programmable DSP devices Jacket **Digital Signal Processing Implementation** Avtar Singh,S. Srinivasan, **Sustainable Materials and Technologies in VLSI and Information Processing** Shashi Kant Dargar,Shilpi Birla,Abha Dargar,Avtar Singh,D. Ganeshaperumal,2025-05-23 The International Conference on Sustainable Materials and Technologies in VLSI and Information Processing aimed to converge advancements in semiconductor technology with sustainable practices addressing the critical need for eco consciousness in the field of Very Large Scale Integration VLSI and Information Processing The primary purpose of the conference was to explore innovative materials manufacturing processes and design methodologies that minimize environmental impact while optimizing performance and functionality in electronic devices Key features of the conference included interdisciplinary discussions on sustainable materials such as biodegradable polymers low power semiconductor materials and recyclable electronic components Additionally it focused on emerging technologies like quantum computing neuromorphic computing and photonic integrated circuits exploring their potential contributions to sustainability in VLSI and information processing The intended audience comprised of researchers scientists engineers and industry professionals from academia government and private sectors involved in semiconductor technology materials science environmental sustainability and information processing What set this conference apart was its unique emphasis on sustainability within the realm of VLSI and information processing While there are conferences focusing on either semiconductor technology or sustainability separately this conference bridged the gap between the two fostering discussions and collaborations that pave the way for greener and more efficient electronic devices and systems *Conference Record of the Twenty-eighth Asilomar Conference on Signals, Systems & Computers* Avtar Singh,1994 *Conference Record of the Twenty-sixth Asilomar Conference on Signals, Systems & Computers* Avtar Singh,1992 *Forthcoming Books* Rose Arny,2003 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 American Book Publishing Record ,1988 **Digital Twin** Soheil Sabri,Kostas Alexandridis,Newton Lee,2024-12-14 Digital twin technologies currently at the forefront of development play a crucial role in integrated systems industrial design manufacturing data analytics and decision making processes As we move forward digital twin technologies along with their enabling technologies such as Artificial Intelligence Machine Learning Internet of Things IoT metaverse and advanced visualization features will continue to drive digital transformation and innovation across various societal contexts This book presents a conceptual framework that examines critical perspectives on digital twins across diverse disciplines It evaluates the contributions of leading thinkers to the broader discourse about digital twins The introductory chapter provides an overview of the entire book summarizing all subsequent chapters Chapter 2 delves into the fundamentals of digital twins

covering theories definitions and enabling technologies Chapters 3 to 10 explore various application areas including smart cities manufacturing healthcare infrastructure and supply chain Chapter 10 specifically focuses on socio technical aspects related to the design development and implementation of digital twins It emphasizes the significance of digital twins as a public good and identifies opportunities gaps and challenges The final chapter addresses the current and future need for skills in training education and awareness proposing collaborative approaches for industry and academia **Smart Buildings and Technologies for Sustainable Cities in China** Tongyu Zhou,Yi Chen,Wu Deng,Ali Cheshmehzangi,2023-10-03 This book brings together the insights from professional associations who involved in developing relevant national standards in China domestic and international scholars who are dedicated to research in related fields and industry practitioners who have the most hands on experience Synthesizing their perspectives this book discusses the advanced technologies that can meet the requirements for energy efficiency building performance monitoring and management and user centric building services which are considered the essential components for achieving sustainable and smart cities Moreover it provides reflections on the implementation of smart technologies and strategies in practice

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