

Preface

This volume is based on the keynote and invited lectures presented at International Conference on NextGen Electronic Technologies—Silicon to Software—ICNETS². It is explicit that the electronic evolution is centred on hardware and software co-design perspectives at present and beyond. The conference theme “SILICON TO SOFTWARE” relates the links between hardware (silicon and beyond) and software driven systems. ICNETS² is envisaged as a forum for engineers, scientists, industry personnel, postdocs and budding researchers to present their research findings and share their knowledge/experience relating to the recent advancements and current opinions in the field of Electronics and Communication Engineering. Given its importance in the arena of Electronics and Communication Engineering and Technologies, ICNETS² facilitates to the needs of specific topics covered in all niche aspects of relevant current scientific interests as well as offering a great leap towards futuristic goals of next generation technologies. The conference is comprised of the following six symposia covering the major aspects of Electronics and Communication Engineering domains:

Symposium A—Computational Signal Processing and Analysis

Symposium B—Intelligent Embedded Systems

Symposium C—Nanoelectronic Materials and Devices

Symposium D—Optical and Microwave Technologies

Symposium E—VLSI Design: Circuits, Systems & Applications

Symposium F—Wireless Communication Networks & Internet of Things

Considering the international standings, the organizing committee of ICNETS² has invited over 20 international speakers who are renowned in their relevant subject areas. Hence, their testimony has been collated in the form of their scientific findings as chapters in this book. As editors of this special volume, we are pleased to introduce the proceedings comprised of a collection of chapters contributed by invited and keynote speakers of ICNETS². The goal of this book is to render an up-to-date understanding on the above topics by the renowned subject experts who are invited to share their current scientific opinions and achievements in these exhilarating fields in which this international conference has been embarked on.

Thus, the book volume makes possible for budding and non-experts in these topics to gain insight into the discussed topics such as signal processing, smart robot, big data analytics, nanoelectronics, solar cell efficiency, optical wireless communication, sensors and actuators, wireless sensor networks, cognitive radio networks, microwave antennas, RF IC design, nanomaterials, information and network security and it is hoped it will possibly yield new perspectives and propensity for the better understanding in their field of studies.

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Frontiers in Electronic Technologies

Trends and Challenges

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