

Preface

This book is an outcome of a day-long seminar on *wireless and human bond communications beyond the year 2050* held on June 22, 2015 at the Center for Teleinfrastruktur, Department of Electronic Systems, Aalborg University, Denmark, to commemorate the supervision of 100 Ph.D. students by Ramjee Prasad. During the event, 18 presentations were made by the former Ph.D. students and the invited speakers who have attained prominence in their respective fields of endeavors around the world. The talks covered a broad range of topics related to wireless communications. The core theme of the seminar was to fast-forward the future to 2050 and speculate the innovations yet to come, how society would adopt to changes, and what types of strategies and business models would likely be in play in about 35 years' time from now. In short, the seminar was an exercise to create a time capsule for the future generations to look back and determine how correct or wrong the predictions were. The event was such a success that it was decided that the speakers write up position papers on the ideas that they presented. These were then adapted into book chapters to be published collectively in a book.

In addition to discussing overall transformation of the wireless systems of the future from a historical perspective, some authors go into details of likely technological innovations to come and how they would impact certain industries, such as healthcare, automobile, IoT/M2M, entertainment, and the society overall. The past decade has seen many changes in the business models for revenue generation. This trend is going to pick up even more momentum in the future. Therefore, we have chapters included on multi-business models and business strategies to meet the challenges for the 2050 time-frame.

The book is intended for casual readers not necessarily familiar with wireless technologies. Therefore, the content is more descriptive and qualitative than theoretical in style of writing.

We (including the chapter authors) have made every effort to be as accurate as possible, but some errors are inevitable. We encourage the readers to let us know of any errors, which we will correct in future editions of the book.

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Ramjee Prasad
Sudhir Dixit

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Prasad, R.; Dixit, S. (Eds.)

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