

Preface

Back in 2008, Prof. Jari Nurmi hosted the International System-on-Chip Symposium in Tampere, Finland, with a key focus on software-defined radio (SDR) technology. The symposium was attended by a large audience traveling from different parts of the world and in particular by Dr. Joseph Mitola who coined the term “the SDR.” At the end of the conference, the editors felt the absolute need to compile a comprehensive book that particularly addresses the baseband processing engines for SDR—a book still largely required by many in academia and industry.

SDR has revolutionized how we deal with radio electronics today. SDR has impacted almost every field of life and spawned newer ideas like cognitive and intelligent radios. It is evident from the many chapters submitted to this book that software support for signal processing is equally important than the efforts put in place to increase the transistor density on the chip. The editors gratefully acknowledge the contributions from all the authors and their patience during the stringent review process. The editors are thankful for their cooperation and timely responses.

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