

Preface

Technology has a remarkable influence on the society in general and on human life in particular. Society has a cyclical and mutual dependence on technology. Technology has created many avenues and opportunities that were hitherto unimaginable. Since it has become a part of people's living rooms, the needs and demands for a safe technology has been on the rise. Improper use of technology has raised many flags of concern over the environment and overall well-being of the society. Technology is needed for activities such as communication, travel, trade and commerce, education, medicine, etc. Technology has begun to play a vital role in simplifying the way things are done. Thus, it is high time to create technologies that are safe and relevant to the societal needs. We have come of age and time to tackle some of society's most compelling issues pronto. It is no longer adequate to work in cells, taking on small sections of the problem at a time. Rather, it is imperative to pool knowledge and resources around the world to create opportunity, empowered by technology, for the society to improve life.

This book is a compendium of selected best papers presented at Techno-Societal: 2016 organized by SVERI's College of Engineering, Pandharpur, India on 20–21 December 2016.

Techno-Societal: 2016 is a first international conference aimed at creating a growing sense of responsibility to solve the challenges of society especially through technology. More than 400 authors submitted their work to the conference. The conference editorial committee decided the acceptance of the submitted papers, with contribution of experts from various fields through double peer review process. A total of 193 full papers of original work were selected. During the conference about 20 keynote speaker sessions were arranged in order to give direction and contribute to specific research areas.

The conference offered various sessions under its name. For the purpose of this book, 108 selected papers and 6 papers from keynote speakers are divided into seven topical areas, viz. 1. Deployable Societal Technologies 2. Sensor-, Image- and Data-driven Societal Technologies 3. Mechatronics, Micro–Nano Related for

Bio and Societal Applications 4. Lab-Level Advanced Societal Technologies 5. Manufacturing and Fabrication Processes for Societal Applications 6. Infrastructure Developments for Societal Applications 7. ICT-based Societal Technologies.

Pandharpur, India
Pandharpur, India
Mumbai, India
Pandharpur, India

Prashant M. Pawar
Babruvahan P. Ronge
R. Balasubramaniam
Sridevi Seshabhatar

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Pawar, P.M.; Ronge, B.P.; Balasubramaniam, R.;
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