

EDITORIAL

Prof. Mario Enea

Dipartimento dell' Innovazione Industriale e Digitale (DIID) - Ingegneria Chimica, Gestionale, Informatica, Meccanica, University of Palermo, Viale delle Scienze, bld.8 90128 - Palermo – Italy (mario.enea@unipa.it)

Leaders in key decision-making positions around the world are paying increased attention to the role of technological innovation and development in engineering applications. To support these efforts, this book explores innovative ideas that enhance economic growth, global competitiveness, and environmental sustainability. The 2017 program focuses on the prospects of technological leapfrogging using the mean tools and techniques of the industrial system engineering. By discussing issues ranging from research practices, techniques, and methodologies, it offers an opportunity for industrial organizations to think about where we are nowadays and where we are going.

The book contains reviewed papers presented at the XXII Summer School “Francesco Turco” held in Palermo, Italy, organized by the SSD ING_IND/17 (Industrial Systems Engineering) of the Department of Industrial and Digital Innovation, University of Palermo. This Conference promotes interaction and cooperation among researchers coming from different universities. Furthermore this conference has long since become a traditional, well established meeting that gathers together renowned scientists and researchers from all over the continent. The 2017 Edition of the Summer School “Francesco Turco”, organized with European Academy on Industrial Management (AIM), continues the fruitful collaboration with our association AIDI, being a forum for the exchange of innovative scientific research tools and topics. AIM promotes networking both in scientific research and educational activities involving main IE&M schools in EHEA.

The specific topic of this edition is “Innovation and development in engineering applications”.

All papers selected and organized in this book have been carefully reviewed, on the basis of technical soundness, relevance, originality, and clarity, by up to three reviewers. These papers are categorized into XX sessions and classified according to the paper’s topic and its relevance to each session theme:

Session 1: Logistic & supply chain management

Session 2 : Operation, project and energy management

Session 3 : Sustainability, Industrial Safety, Risk and Maintenance Engineering

Session 4 : Industrial service, ergonomics and healthcare engineering

Session 5 : Industrial plant design and analysis

Session 6 : Decision support systems and performance measures in industrial system engineering

This book is the result of the collective effort of my colleagues at University of Palermo. In particular, I would like to acknowledge our gratitude to all authors who contributed their invaluable time to this work. I would especially like to thank the reviewing committee and all those who participated in the rigorous reviewing process that led to the selected papers in this book.

October 2017

General chair

Prof. Mario Enea