

Preface

This book highlights the field of space science and communications. This field is one of the pillars of sustainable development from the study of Earth Sciences to the form of space science. Research and development (R & D) in this field plays a crucial role in sustainability development. The space issue is always relevant. Obtaining essential data from the physical world to interpret the universe and to predict what will happen in the future is very challenging. Valid information to understand trends, evaluate needs, and create sustainable development policies and programs in the best interest of all people is indispensable.

This book discusses in detail the latest application of space science and space technology as summarized in the working group of space science and communication. In this working group, some modern systems with high accuracy have been explored to enhance their capability to work in the vast atmosphere from the Earth's surface to the development of antennas for the study of space science.

This contributed volume presents 28 selected papers from the 2017 International Conference on Space Science and Communication (*IconSpace2017*). The book is divided into three scientific sections: (i) Atmospheric Physics, (ii) Environmental Sciences and Remote Sensing, and (iii) Communication Systems and Space Technology. It is addressed to professors, postgraduate students, scientists and engineers who are taking part in R & D in areas such as meteorological applications, environmental monitoring, space weather, and materials for antenna systems based on wide applications in various fields of science and technology.

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