

## Special Issue on Selected Papers from ICASI 2016

### Preface



The IEEE 2016 International Conference on Applied System Innovation (IEEE ICASI 2016) was held in Okinawa, Japan, from May 28–June 1, 2016, and provided a unified communication platform for researchers in a wide range of topics. Scientists all over the world actively want to discover new advanced materials in electrical and mechanical engineering. In recent years, the application of advanced materials has been a highly developing field, in the areas of semiconductor and electronic device technology, design, manufacturing, physics, and modeling. Therefore, the field of electrical and mechanical materials has been an important subject of review. The scope of this special issue entitled “Selected Papers from ICASI 2016” not only encompasses material sizes at the nanoscale, but also in various dimensions where the onset of size dependent phenomena usually enables novel applications.

This special issue contains 22 excellent papers from the fields of sensors and materials from among 524 papers presented in ICASI 2016. The subjects of the 22 papers include: (1) The synthesis of fundamental and advanced materials; (2) The properties of advanced materials and their application; (3) The applications of advanced materials in electrical and mechanical sensors; (4) The application of fundamental and advanced materials in environmental protection; and (5) The properties of microelectronic and optical sensors.

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