

SPECIAL ISSUE ON ICASI 2017 (2)

PREFACE



The IEEE 2017 International Conference on Applied System Innovation (IEEE ICASI 2017) was held in Sapporo, Japan on May 13–17, 2017 and provided a unified communication platform for researchers in a wide range of topics. In recent years, applications of advanced materials for electronic devices and optical sensors have become rapidly developing fields. Owing to their flexibility and lightness, advanced materials have the potential to be deployable in the near future. The scope of this special issue covers fundamental materials of electrical, mechanical, and optical engineering, including synthesis engineering, integration with many elements, designs of electrical or optical devices, performance evaluations, and the exploration of the broad applications of advanced materials in industry, environmental control, materials analyses, etc. This special issue contains 35 excellent papers from the fields of sensors and materials from among 714 papers presented at IEEE ICASI 2017 and consists of two parts. Twenty papers were included in Part 1 [Vol. 30, No. 3(1)], and 15 papers are included in Part 2 [Vol. 30, No. 3(2)]. The subjects of the 35 papers include: (1) advanced materials with new electronic and optical properties; (2) advanced materials for preparation and applications; (3) subjects related to electronic thin films and coating technology; (4) synthesis engineering of advanced materials; and (5) advanced materials in mechatronics applications. The topics of some papers in this issue may not be directly related to sensors themselves but are related to the materials or technologies that can be used in sensors or sensing applications in the future. The guest editors would like to thank the authors for their contributions to this special issue and all the reviewers for their constructive feedback. We hope that the research studies presented in this issue will contribute to the future sensor-related fields in the world.

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