

JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for information and precision equipment, Kobe, Japan 2015

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It was our great honor and pleasure to host the 2015 JSME-IIP/ASME-ISPS Joint Conference on Micro-mechatronics for information and precision equipment (MIPE 2015) at Kobe International Conference Center, Kobe, Japan from June 14 to June 17, 2015.

MIPE 2015 continued to offer an outstanding platform for researchers from both academic and industry to present their latest research progresses, exchange ideas and explore collaborate opportunities. Relevant technologies include (1) storage devices and relating technologies such as head/disk interface and tribology, mechanism and control, (2) flexible media feeding and handling machines, (3) image processing and printing technologies, (4) intelligent machines, (5) bio-medical equipments, (6) precision equipments and (7) micro/nanosystem science and technology. Furthermore, a workshop “Frontier technologies leading advanced information society” is to be held during the conference. Papers presented at the conference highlighted scientific and technological advancements in:

- Head/media interface and tribology
- Drive mechanisms
- Servo control
- Micro/nanomechatronics
- Bio-medical equipment
- Micro/nanosystem science and technology
- Intelligent machines and brain science applications

- Flexible media handling machines and printed electronics
- Imaging and printing technologies
- Optical storage and optical devices
- Precision equipments
- Future technology
- Consumer electronics
- Simulation of nanoscale phenomena
- Sensor networks and wearable information devices
- Precise machining process technologies

MIPE 2015 had seen good attendance and a balanced geographic and academic/industry mix in the audience. We had about 189 presentations covering the abovementioned areas in our 3-day conference. We were very pleased and honored to have three guest speakers for our event. Professor Akihiro Matsumoto (Toyo University, Japan), Professor Scott Abrahamson (Santa Clara University, USA), and Professor Katsuaki Sukanuma (Osaka University) gave the Distinguished Talks in the workshop and covered frontier technologies leading advanced information society. Professor Matsumoto presented “the recent activities of JSME-IIP division toward advanced information society”. Mr. Professor Abrahamson talked “Towards a million TPI” about HDD future technologies. Professor Sukanuma introduced “Recent advances of nanomaterials for printed electronics”.

To facilitate easy reference in future, authors of presentations at the conference were invited to submit their full papers for consideration of publication in this special issue of Microsystem Technologies (MST). All papers submitted went through a rigorous peer review process; many reviewers are leading experts in their areas of research and many of the papers had gone through a number of revisions before they were accepted for publication in the journal to ensure the quality of the journal. We would like to

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take this opportunity to express our sincerest gratitude to all our reviewers, who, despite their tight work schedule, have helped us review the papers in a timely manner on a voluntary basis.

We would also reiterate our thanks to Prof. Bharat Bhushan at MST Journal for the long standing support for MIPE. Without his great efforts, this special issue of Microsystems Technologies would not be possible.

We would like to thank all authors, reviewers, organizers, MIPE 2015 executive committee members and JSME/ASME staff for supporting the MIPE 2015.

Last but not least, a final word of gratitude goes to all presenters and participants at the conference. The MIPE 2015 would not have been successful without your dedicated participation.

Prof. Norio Tagawa



Prof. Kyoung-Su Park

