After the successful conferences—MAMM-2010 in Aachen, Germany; MAMM-2012 in Durgapur, India; and MAMM-2014 in Timisoara, Romania—the 4th conference on Microactuators and Micromechanisms was held 2016 in Ilmenau, Germany. This conference was organized by the Mechanism Technology Group, Department of Mechanical Engineering at Technische Universität Ilmenau and under the patronage of IFToMM (International Federation for the Promotion of Mechanism and Machine Science), in particular the Technical Committees of Micromachines and of Linkages and Mechanical Controls.

The aim of the conference is to bring together scientists, industry experts, and students and to provide a special opportunity for know-how exchange and collaboration in various disciplines referring to microsystems technology. This event has presented following topics: microactuators and microassembly, microsensors involving movable solids, micro-opto-mechanical devices, mechanical tools for cell and tissue studies, micromanipulation and microstages, microscale flight and swimming, microrobotics and surgical tools, micron-scale power generation, miniature manufacturing machines, micromechtronics and micromechanisms, biomechanics micro and nano scales, control issues in microsystems and compliant mechanisms, and actuators. In addition to focusing on general topics of interest, the last named topic was introduced new in this conference and found a great resonance. This book has 22 peer-reviewed papers. The conference has exhibited high international participation: the participants were from Germany, Hungary, India, Japan, The Netherlands, Romania, Russia, Serbia, Slovakia, and Spain.

We want to express our special thanks to all authors for the interesting contributions, which had covered the most of the given topics.

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