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Selected Papers from MNC 2017

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Message from the Guest Editors

Microprocessing (microfabrication) and nanotechnologies are key technical platforms for the construction of an advanced information society in the 21st century. Apart from their continuous contributions to the high integration of semiconductor devices, which are the core drivers of the technologies, microprocessing and nanotechnologies are anticipated to improve a wide range of advanced convergence technologies in the fields of information-communication, and bio, medical, and environmental control technologies. In order to meet the social expectations through practical R&D of innovative next-generation devices, an all-around-view R&D is crucial in semiconductor processing/inspection technologies on the 14 nm-and-below scale, microscopic processing/assessment technologies in the several-nm/several-tens-nm range, atom technology, which controls atoms, and microscopic technologies, which are applied to advanced devices, such as new physics/chemistry, quantum devices, micromachines, and nanobiologies. Additionally, comprehensive R&D in fabrication, equipment, materials, sensing and device-integration technologies leads to further development of those technologies.





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