Guest Editorial: Special Section on the IEEE TNANO International Nanoelectronics Conference (INEC)

The IEEE TNANO International Nanoelectronics Conference (INEC) Special Section Guest Editorial Board is glad to present the current issue of IEEE TNANO, which contains selected paper from the 7th IEEE INEC 2016 conference. The INEC is a series of very successful conference, and INEC 2016 held in Chengdu, China, on May 7-9, 2016 has more than 300 submissions. We are very fortunate to select a few very best papers from the conference to be presented in this TNANO Special Section. Besides, this Special Section has included numbers of outstanding invited research works in this field. Particularly, this Special Section presents two distinguished review articles contributed by the research groups from the United States and Taiwan.

Dr. A. A Vyas and the research team of Prof. C. Y. Yang in the Santa Clara University has presented a review article, titled “On-chip interconnect conductor materials for end-of-roadmap technology nodes,” which reviewed the latest development and novel insight of nanowire. It is a remarkable work for current and future research of nanowire interconnecting technology. The other invited paper, “Planarization fabrication and characterization of three-dimensional magnetic field sensors,” by Prof. V. S. Luong of the National Taipei University of Science and Technology and Prof. C.-R. Chang’s research group in the National Taiwan University has reviewed both academic and industrial research works on the construction of three-dimensional (3-D) magnetic sensors. The physics presented in the paper is accompanied with real-world implementation that are commercially available. The treatment of the 3-D magnetic sensor presented in this paper has taken us to a new level of academic technology transfer to industrial product. The readers will benefit from the technology presented in the paper and at the same time be able to get out of the ivory tower.

The Guest Editorial Board is glad to be able to collaborate with the Conference Editorial Board. It is our sincere wish that readers will find the research work presented in this Special Section both interesting and useful.

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Digital Object Identifier 10.1109/TNANO.2017.2789064