Call for Papers

― Special Section on Multiple-Valued Logic and VLSI Computing ―

The IEICE Transactions on Information and Systems announces that it will publish a special section entitled “Special Section on Multiple-Valued Logic and VLSI Computing” in August 2017.

Recent development of System-on-Chip (SoC) technology has been accelerated by device scaling which drives improved performance and power, high functionality and cost reduction. However, there occur unprecedented serious problems today at very small device feature sizes. To solve the problems, innovative new-concept VLSI computing technology such as multiple-valued VLSI computing is strongly expected to be developed. Also, logic design based on a multiple-valued concept, multiple-valued algebra and soft computing are expected to be effectively employed for the next-generation digital computing and artificial intelligent applications. From this point of view, we have planned Special Section on Multiple-Valued Logic and VLSI Computing to be published in August 2017. To discuss the same frontier area, the 46th IEEE International Symposium on Multiple-Valued Logic (ISMVL2016) was held in May 2016 in Sapporo, Japan. We solicit for submission of the papers on multiple-valued logic and VLSI computing, not limited to the presented papers in the ISMVL2016. We welcome demonstration of the recent development of novel and new-concept computing technology.

1. Scope
This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- Multiple-Valued Algebra and Logic
- Fuzzy Logic
- Soft Computing
- Quantum Computing
- Multiple-Valued Logic Design and Switching Theory
- Test and Verification
- Spectrum Technique
- Multiple-Valued logic applications to Big data/Data mining
- New-Concept VLSI Architecture
- Multiple-Valued VLSI Computing
- Nanodevice/Novel Memory-Based Architecture
- Soft computing applications to Intelligent Medical and Welfare Engineering/Security

2. Submission Instructions
The standard number of pages is 8 for a PAPER and 2 for a LETTER. The maximum number of pages for the initial submission of a LETTER is 4. The page charges are considerably higher for extra pages. Manuscripts should be prepared according to the guideline in the "Information for Authors". The latest version is available at the web site, http://www.ieice.org/eng/shiori/mokuji_iss.html. The term for revising the manuscript after acknowledgement of conditional acceptance for this special section could be shorter than that for regular issues (60 days) because of the tight review schedule.

This special section will accept only papers by electronic submission. Prospective authors are requested to follow carefully the submission process described below.

1. Submit a manuscript and electronic source files (TeX/Word files, figures, authors’ photos and biography) via the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx by September 30, 2016. Authors should choose the [Special-LO] Multiple-Valued Logic and VLSI Computing as a “Journal/Section” on the online screen. Do not choose [Regular-ED].
2. At electronic submission via the IEICE Web site, authors should agree “Copyright Transfer and Page Charge Agreement”.

For additional guidelines on manuscript preparation, please visit: http://www.ieice.org/eng/shiori/mokuji_iss.html

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* Please note that if the submitted paper is accepted, all authors, including authors of invited papers, are requested to pay for the page charges covering partial cost of publications.
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