

Call for Papers

Special Section on Analog Circuits and Their Application Technologies

The IEICE Transactions on Electronics announces a forthcoming Special Section on Analog Circuits and Their Application Technologies to be published in **July 2019**.

The rapid progress of IoT(Internet of Things) demands the evolution of integrated circuits in many fields such as information system, health / biomedicine, and energy management. Recent analog circuits and its integration technologies have made a great contribution in these fields. Challenges toward enhanced functionality as well as excellent performance of analog circuits, while keeping low power and low cost, are strongly demanded for the next-generation applications. In addition to pure analog circuit techniques, the scope of this special section includes fundamental issues such as co-design of analog and digital circuits, analog circuits in SoC environments, analog circuit design for manufacturability (DFM) and testability (DFT), as well as device modeling technologies. The papers without either chip implementation or measurement results are also welcome.

Authors working in this area are invited to submit original research papers on topics, which include, but are not limited to:

- Circuit techniques for wireless/wired/optical communication systems
- RF circuits and broadband circuits
- Low-power/low-voltage circuits
- High-speed/high-precision ADCs and DACs
- Amplifiers, oscillators, PLLs, voltage references, and power management circuits
- Analog/RF integration techniques for SoCs
- Assembly related topics (electronic packaging, SiP, module, EMC, supply noise, ground noise, digital noise, etc.)
- Mixed-signal integration applications (RFID, storage devices, tuners, automotive, sensor and MEMS interfaces, biomedicine and healthcare, etc.)
- Analog techniques for high performance (high frequency ESD structures, power supply circuits, etc.)
- Device modeling techniques
- Device technologies for analog circuits (CMOS, BiCMOS, compound semiconductor, MEMS, etc.)
- Design for manufacturability (DFM) and/or testability (DFT) of analog circuits

Theoretical papers which do not include chip implementation and its measurement results are also welcome.

Submission due date is November 9, 2018. This special section will accept only PAPERs and BRIEF PAPERs by electronic submission. Prospective authors are requested to follow carefully the submission process described below. Submit a paper using the IEICE Web site https://review.ieice.org/regist/regist_baseinfo_e.aspx. Authors should choose the [Special-CT] Analog Circuits and Related Technologies as the "Journal/ Section" on the online screen. Do not choose [Regular-EC].

Inquiries: Prof. Noriyuki Miura

Graduate School of System Informatics, Kobe University

Tel : +81-78-803-6010, Email : miura@cs.kobe-u.ac.jp

It is recommended that PAPER be within eight pages in length. The maximum number of pages for the initial submission of a BRIEF PAPER must be 4. Manuscripts should be prepared according to the "Information for Authors," the latest version of which is available at: http://www.ieice.org/eng/shiori/mokuji_es.html.

Special Section Editorial Committee

Guest Editor-in-Chief: Masao Ito (Renesas Electronics)

Guest Editors: Noriyuki Miura (Kobe University), Yasumoto Tomita (Fujitsu Laboratories)

Guest Associate Editors: Ippei Akita (AIST), Tetsuya Iizuka (Univ. of Tokyo), Hiroyuki Ito (Tokyo Inst. of Technology), Takeshi Ueno (Toshiba), Kenichi Okada (Tokyo Inst. of Technology), Masaki Sakakibara (Sony Semiconductor Solutions), Takahide Sato (Univ. of Yamanashi), Hao San (Tokyo City Univ.), Zule Xu (Univ. of Tokyo), Koji Takinami (Panasonic), Takahiro Nakamura (Hitachi), Kiichi Niitsu (Nagoya Univ.), Ryuichi Fujimoto (Toshiba Memory), Tatsuji Matsuura (Tokyo Univ. of Science), Tadashi Minotani (NTT Telecon), Masaya Miyahara (KEK), Cosy Muto (Nagasaki Univ.), Keita Yasutomi (Shizuoka Univ.), Takafumi Yamaji (Sojo Univ.), Ryuji Yoshimura (Rohm), Ning Li (Chuo Univ.)

[IMPORTANT NOTICE]

*Authors must agree to the "Copyright Transfer and Page Charge Agreement" via electronic submission.

*Please note that if accepted, all authors, including those of invited papers, will be required to pay the page charges covering partial cost of publication.

*At least one of the authors must be an IEICE member when the manuscript is submitted for review. Invited papers are an exception. We recommend that authors unaffiliated with IEICE apply for membership. For details, please visit the web-page, https://www.ieice.org/eng/join_ieice/index.html.