

# IEEE EMBEDDED SYSTEMS LETTERS

A PUBLICATION OF THE IEEE COUNCIL ON ELECTRONIC DESIGN AUTOMATION

Inaugural Issue Deadlines:

Manuscript Due: June 6, 2009

Notification to Authors: June 27, 2009

Final Draft Due for Publication: July 3, 2009

IEEE Embedded Systems Letters seeks to provide a forum for quick dissemination of research results in the domain of embedded systems with a target turn-around time of three months. Submissions are welcome on any topic in the broad area of embedded systems and embedded software, especially but not limited to:

- Architectural and micro-architectural design of embedded systems: micro-architectures, customizable processors, signal processing, multi-processor SOC and NOC architectures;
- Design automation algorithms, methods, and tools for VLSI implementations: specification languages, models and synthesis methods;
- Component modeling and component-based development methodologies; hardware-software co-design, co-design methodologies, design exploration tools;
- Compilation and managed runtime environments for embedded systems; Profiling, measurement, analysis techniques for embedded applications; OS, middleware and support systems for embedded-system design;
- Programming languages and software engineering for embedded or real-time applications;
- Non-functional aspects of embedded systems including low power, reliability, dependability and availability. Low power design and power management;
- Testing, validation, and verification of embedded software;
- Embedded sensor networks and embedded control systems: design, analysis and application to cyber-physical systems;
- Embedded systems security;
- Applications of embedded systems and software: military, avionics, and automotive: case studies, applications of new methodologies and tools to applications with increased system heterogeneity and scale.

Submitted letters must be four pages or fewer, including all figures, tables, and references. Submissions exceeding this length will be returned without review. Papers should use 7.875in x 10.75in (20cm x 27.30cm) trim size and the IEEE transactions two-column format in 9-pt. font. In word counts, this corresponds to roughly 2200 words.

Submissions to IEEE ESL must consist of original work that has not been previously published nor is currently under review elsewhere.

**Please submit at <http://mc.manuscriptcentral.com/les-ieee>.**

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## **IEEE ESL: Publication Style and Types**

To guarantee a fast review and publication; we require a strict page limit for all papers in this journal, without any exception. This strict limit is 4 pages, and the format is required to be exactly as stated in this guideline. Research findings and results whose fast dissemination will spark interest in the academic and industrial communities, and whose main points can be captured within this page limit are best targeted for this journal. Research papers that require elaborate context, elaborate formalization, and large amount of data or formal proofs to convince the readers will be better targeted for other archival journals in the field. If you are writing for IEEE ESL, a general guideline is to minimize the motivational text and point to directly relevant background work without, of course, any omissions. In some cases, directly stating the problem that you are attempting to address may be an appropriate starting point.

Manuscript can be one of three types: regular manuscripts, letters to the editor and a Response Manuscript. Per IEEE policy, all published manuscripts should be peer reviewed for originality and technical soundness. If you are writing a “Response Manuscript” that is a follow up of an earlier published work, use the introductory text to capture the main points of the manuscript for the reader who may not have the benefit of having read the prior work.

## **Concurrent or Overlapping Submission & Originality of Work**

Submissions to IEEE ESL must consist of original work that has not been previously published nor is currently under review elsewhere. Concurrent or overlapping submission to ESL and other publications is viewed as a serious breach of ethics and, if detected, will result in immediate rejection of the submission. Contributions beyond prior work must be clearly articulated. Letters submissions that extend or are otherwise closely related to prior publications must also include copies of those prior papers for the reviewers' and editors' reference.

However, due to the short format, we expect that publication in IEEE ESL should not preclude later publication in top-quality conferences or full-length journals. However, we expect that the later publication is substantially extended as per IEEE guidelines, and follows guidelines as specified by the conference organizers.

## **Review Process**

Submissions are accepted on a continuing basis. Each submission will be assigned to an appropriate member of the Editorial Board to manage the review process. Upon acceptance, authors will have one week to make revisions. The first two issues of the IEEE ESL will be assembled by vote from the entire editorial board after conclusion of the review process.

## **Call for Participation**

**We are looking for authors, reviewers and guest editors for the new journal. Start by registering at <http://mc.manuscriptcentral.com/les-ieee>!**

## **Instructions for the Reviewers**

As a reviewer, you play a critical role in the peer review process. The guiding principles for our peer review process are to conduct a thorough, fair and timely evaluation of the submitted manuscripts. Only those manuscripts that meet the criteria for highest quality should be recommended for publication. In plain English, we are looking to publish articles that are technically sound, present a new idea, new method or new insight to the reader and are understandable to researchers or practitioners in the specific topic area. This can be hard especially in case of submission to IEEE ESL due to the space constraints. Clearly, a manuscript needs to be direct about the problem being addressed, method taken, results obtained and conclusions reached. In your review, even on manuscripts that you are recommending a clear reject recommendation, provide sound and constructive reviews that the authors can use to improve their research endeavor.

**Please email [esl-info@cs.ucsd.edu](mailto:esl-info@cs.ucsd.edu) or any member of the editorial board for more information.**