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C. Berger, L. Imbert and A. Tisserand  
LIRMM, CNRS-UM2, Montpellier 2

**ARITH18 — Call for Papers**

Authors are invited to submit papers describing recent advances on all aspects of computer arithmetic, including, but not restricted to the following topics:

- Foundations of number systems and arithmetic;
- Arithmetic processor design and implementation;
- Arithmetic algorithms and their analysis;
- Highly parallel arithmetic units and systems;
- New floating-point units and systems;
- Standards for number representation and arithmetic;
- Impact of high level languages on arithmetic systems;
- Special function implementation;
- Low power arithmetic; and
- Applications of Computer Arithmetic for cryptography, DSP, data compression, computer graphics, etc.

**Submission**

PDF version of the complete paper should be submitted in electronic form, following the instructions posted at the conference web site: <http://www.lirmm.fr/arith18/> no later than Oct. 15, 2006 at midnight, CET (extended deadline).

The paper must be anonymous, with no author names, affiliations, acknowledgments, or obvious references. It should begin with a title, a short abstract, and a list of keywords, and its introduction should summarize the contributions of the paper at a level appropriate for a non-specialist reader.

Finally, a statement confirming that the paper has not been submitted elsewhere must be sent by email to Peter Kornerup ([kornerup@imada.sdu.dk](mailto:kornerup@imada.sdu.dk)).

Acceptance will be notified in February 2007, and final camera-ready papers will be due in March 2007. Conference proceedings will be available at the Symposium.

**A Note On Paper Formatting**

The indication above of "eight pages, two columns" is just for a rough estimation of length. Authors of papers exceeding 20 pages, 12 pt, single column, double spacing, who think that their submission will fit the final conference page limit, are kindly requested to check their manuscript size using the formatting style found at <http://computer.org/author/transguide/transstylefiles.htm>

The final submissions cannot exceed 10 pages (corresponding to 8+2 extra charged pages). For Authors' convenience, and by courtesy of the IEEE Computer Society, the formatting styles can also be found at the web site.

**Sponsors**

IEEE and IEEE Computer Society in cooperation with LIRMM, CNRS, Université Montpellier 2, and industrial partners.

**Location**

Montpellier is in the south of France, close to the sea...The conference will be held in the conference center *Le Corum*.

**Important Dates**

Submission deadline (extended)	October 15th, 2006
Acceptance notification	February, 2007
Final version deadline	March, 2007