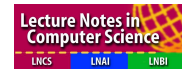# Workshop on the Arithmetic of Finite Fields
WAIFI 2007

www.waifi.org

Madrid, Spain
June 21-22, 2007

Call for Papers

The focus of this workshop is to have a forum bringing together mathematicians, engineers and physicists researching on finite field arithmetic, to communicate and advance in the theory, applications and implementations of such fields. The workshop will help to bridge the gap between the mathematical theory of finite fields and their hardware/software implementations and technical applications.

The topics of WAIFI 2007 include but are not limited to:

Theory of finite field arithmetic:	○ *Pseudorandom number generators*
○ *Optimal bases (canonical, normal, dual, etc.)*	○ *Hardware/Software Co-design*
○ *Optimal irreducible polynomials*	○ *IP (Intellectual Property) components*
○ *Primitive elements*	○ *Field programmable and reconfigurable systems*
○ *Prime fields, binary fields, extension fields, etc.*	**Applications of finite fields:**
○ *Elliptic and Hyperelliptic curves*	○ *Cryptography*
Hardware & Software implementations:	○ *Communication systems*
○ *Design & implementation of finite field processors*	○ *Error correcting codes*
○ *Design & implementation of arithmetic algorithms*	○ *Quantum computing*

Authors are invited to submit **original research** papers. Electronic submission will be strongly encouraged. A detailed description of the electronic submission procedure will apear on the WAIFI webpage. The submission should begin with a **title**, **author list**, a short **abstract**, and a list of **keywords**. The paper should be at most 12 pages (excluding the bibliography and clearly marked appendices), and at most 15 pages in total, using at least 11-point font and reasonable margins.

○ Submission deadline: **February 14th, 2007** ○ Acceptance notification: March 23th, 2007 ○ Final version due: April 4th, 2007	The proceedings will be published in the Springer **Lecture Notes in Computer Science (LNCS)** series in time for distribution at the workshop.

Notice that in order to be included in the proceedings, the authors of an accepted paper must guarantee to present their contribution at the workshop. More detailed information on instructions for authors, paper submission, technical program, accomodation, travel and registration will be posted on the Workshop web site: http://www.waifi.org

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