

Paper Submission

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.

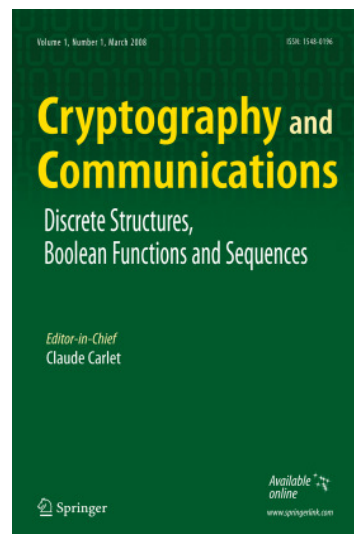
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Important Dates

- Paper submission deadline: September 1, 2009
- Notification to authors: December 1, 2009
- Camera ready papers: March 1, 2010

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Call for Papers

Special Issue on Design Theory

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Combinatorial designs and the matrices, difference sets and sequences derived from them, are one of the fundamental discrete structures used in information security and digital communications applications. Particular applications include error-correcting codes, digital filters and transforms, mobile and wireless spreading sequences, and vectorial Boolean and finite field functions for cryptographic primitives. This is a very active research area, drawing from mathematics (combinatorics, algebra, statistics, numerical methods), computer science and algorithmics, theoretical physics, and communications engineering.

This Special Issue is intended to serve two functions: as the post-conference proceedings of an International Conference on Design Theory and Applications, and to honour Dr. Warwick de Launey. Suitable articles will be solicited from registrants and other researchers with expertise in design theory and/or connections with Dr. de Launey.

- **International Conference on Design Theory and Applications** (incorporating the 2nd International Workshop on Hadamard and Cocyclic Matrices and Applications), National University of Ireland, Galway July 1-3, 2009. Invited speakers to date are Prof. KT Arasu (Wright State U, USA), Prof. Peter Cameron (Queen Mary, University of London, UK), Prof. Rob Craigen (U Manitoba, Canada), Dr. John Dillon (National Security Agency, USA), Dr. Dane Flannery (NUI Galway, Ireland), Prof. Kathy Horadam (RMIT, Australia), Dr. Mate Matolcsi (Alfred Renyi Institute, Hungary), Prof. Jennie Seberry (U. Wollongong, Australia) and Dr. Richard Stafford (National Security Agency, USA). The conference is being run under the auspices of the de Brún Centre for Computational Algebra at NUI, Galway; see <http://hamilton.nuigalway.ie/DeBrunCentre/> and <http://larmor.nuigalway.ie/~detinko/DeSign.htm>.
- **Dr. Warwick de Launey** has made substantial contributions to combinatorial design theory, particularly in orthogonal designs and their generalizations and in understanding the construction and asymptotic behaviour of Hadamard matrices. He is the discoverer, with KJ Horadam, of cocyclic Hadamard matrices and is the author of many articles as well as chapters in the Handbook of Combinatorial Designs. His research monograph on cocyclic designs, with DL Flannery, is near completion with the American Mathematical Society. Most of his working life has been spent within Defence establishments in Australia (Cryptomathematics Research Group, DSTO) and USA (Centre for Communications Research) and the majority of his work is classified. Dr. de Launey has recently turned 50, and his many collaborators wish to honour his remarkable contributions.