******** CALL FOR PAPERS : CREST BOOK ********

Mathematical Modelling for Next-Generation Cryptography

The aim of the book is to present mathematical background underlying a security modelling of the next-generation cryptography. The book will introduce new mathematical results in order to strengthen information security, simultaneously making fresh insights and developing the respective areas of mathematics. This project is supported by CREST - a funding program, which is run by the Japan Science and Technology Agency (JST) (https://cryptomath-crest.jp/english).

The book is planning to be published on July 2017.

Original research papers/surveys on all technical aspects of mathematical cryptography related to the next-generation cryptography are solicited. The topics include (but are not restricted to): (1)Mathematical background for the next-generation cryptography such as: number theory, algebraic geometry, lattice theory, representation theory, multivariate polynomial theory, quantum computation and mathematical physics; (2)Cryptosystems that have the potential to be safe against quantum computers such as: hash-based signature schemes, lattice-based cryptosystems, code-based cryptosystems, multivariate cryptosystems and quantum cryptographic schemes.

Instructions to authors:
Accepted papers will be published in Springer's "Mathematics for Industry" series available from the website (http://link.springer.com/bookseries/13254). The length of the submission must be at most 15 pages, excluding references and appendices, in a single column format, in 11pt fonts and with reasonable margins. If the submission is accepted, the length of the final version will be at most 20 pages including references and appendices, in the Springer's format, as in here
https://www.springer.com/gp/authors-editors/book-authors-editors/manuscript-preparation/5636

Submissions must not substantially duplicate work that any of the authors has published in a journal or a conference/workshop with proceedings, or has submitted/is planning to submit before the author notification deadline to a journal or other conferences/workshops that have proceedings. The submission should begin with a title, the authors' names and affiliations, a short abstract, and a list of key words, and its introduction should summarize the contributions of the paper at a level appropriate for a non-specialist reader.

Authors should submit a paper via email to Duong Hoang Dung <duong@imi.kyushu-u.ac.jp>.

Important dates:
Submission Deadline: December 02, 2016
Review Notification: January 13, 2017
Revision Deadline: January 31, 2017
Final Notification: February 15, 2017
Camera-ready version: February 28, 2017

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