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Title: Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM 2009)
Event Type: Conference-Workshop

Location:
Centre de Recherches Mathematiques, Montreal

Dates:
May 25-28, 2009

Topic:
The general topic of the conference was the theory and application of discrete structures and its goal was to highlight the most salient trends in the field, which has close links to such diverse areas as cryptography, computer science, large scale networks and biology. The conference brought together researchers from the various disciplines with which discrete and algorithmic mathematics interact.

Methodology:
The chair of the Program Committee was Carla Savage from North Carolina State University. The program consisted of 8 plenary lectures, 47 talks in invited mini-symposia, 75 talks in contributed mini-symposia, and about 94 contributed talks.

Objectives Achieved:
One of the primary goals of the conference was to encourage the participation of Canadian graduate students and PDFs. The three Canadian Mathematical Institutes (CRM, Fields and PIMS) as well as MITACS provided funds to support the attendance of graduate students and PDFs.   --In order to receive financial support graduate students were encouraged to contribute talks; furthermore, there was a problem session (followed by a reception) devoted to the presentation of research problems appropriate for graduate students. These problems will appear on the web page of the conference.

Scientific Highlights:
There was a special talk by Jason Brown (Dalhousie) on the connections between math and music.

Organizers:
The local arrangements committee was led by Gena Hahn (chair) from the University of Montreal and Odile Marcotte from the CRM.

Speakers:
- Valerie Berthe (Montpellier II, France): "Discrete Geometry and Word Combinatorics" - Sylvie Corteel (LRI, Orsay): "Enumeration of Fillings of Young Diagrams" - Jesus De Loera (UC Davis): "Two Geometric Algorithms and Their Many Applications in Discrete Optimization" - Dannie Durand (Carnegie Mellon): "Genes as LEGO: What Trees and Graphs Can Tell Us About the Evolution of Modular Proteins" - Shafi Goldwasser (MIT, Weizmann): "Program Obfuscation and One-Time Programs"   - Joel Spencer (NYU): "78 Years of Ramsey R(3,k) (and Counting!)" - Carsten Thomassen (Technical University, Denmark): "Graph Decomposition" - Qing Xiang (Delaware): "Modular Ranks and Smith Normal Forms of some Incidence Matrices"

Links:
http://www.crm.umontreal.ca/CanaDAM2009/index_e.shtml

Comments / Miscellaneous:
This was the second conference in the new series on discrete mathematics that is held every two years (in the odd years) in Canada. The conference has a similar format to the SIAM conference on Discrete Mathematics (held every two years, in the even years). The first CanaDAM conference was held in Banff in May 2007.

File Uploads:
Additional Upload 1: http://www.pims.math.ca/files/final_report/CanaDAM_2009_Participants.pdf

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