

The 12th International Workshop

# Descriptive Complexity of Formal Systems

August 8 - 10, 2010, Saskatoon, Canada

## Invited Speakers:

Stavros Konstantinidis (Halifax, Canada)  
Ming Li (Waterloo, Canada)  
Przemyslaw Prusinkiewicz (Calgary, Canada)  
Detlef Wotschke (Frankfurt, Germany)

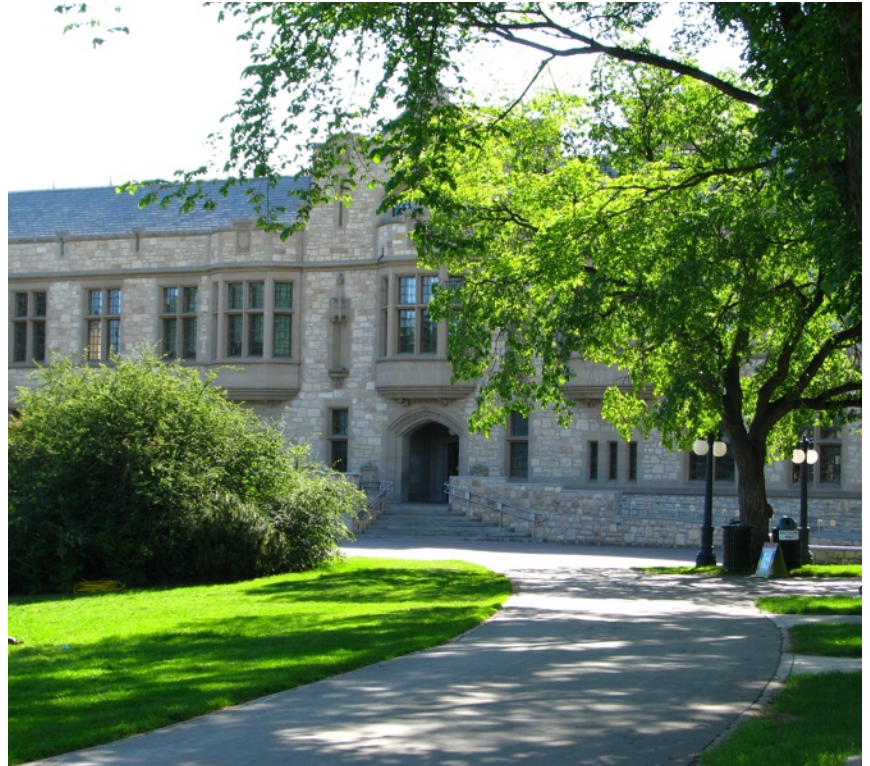
## Important Dates:

Submission: May 9, 2010 (**extended deadline**)  
Notification: June 15, 2010  
Final Papers: July 8, 2010

## Program Committee:

J. Brzozowski (Waterloo, Canada)  
J. Dassow (Magdeburg, Germany)  
M. Domaratzki (Winnipeg, Canada)  
M. Holzer (Giessen, Germany)  
O. Ibarra (Santa Barbara, USA)  
G. Jirásková (Kosice, Slovakia)  
C. Kintala (Newark, USA)  
I. McQuillan (Saskatoon, Canada, co-chair)  
A. Paun (Madrid, Spain; Bucharest, Romania)  
G. Pighizzini (Milano, Italy, co-chair)  
J. Sakarovitch (Paris, France)  
K. Salomaa (Kingston, Canada)  
G. Vaszil (Budapest, Hungary)  
S. Yu (London, Canada)

The 12th International Workshop DCFS 2010 will take place in Saskatoon, Canada. The workshop will be jointly organized by the IFIP Working Group 1.2 on Descriptive Complexity and by the Department of Computer Science at the University of Saskatchewan.



## Topics of Interest:

Researchers are invited to submit papers concerning the descriptive complexity of formal systems and structures (and its applications) for DCFS 2010. Topics include, but are not limited to:

- various measures of descriptive complexity of automata, grammars, languages, and related systems
- trade-offs between different formal systems and/or different modes of operation (e.g., determinism and nondeterminism) with respect to descriptive complexity
- circuit complexity of Boolean functions and related measures
- succinctness of description of (finite) objects
- descriptive complexity in resource-bounded or structure-bounded environments
- descriptive complexity of formal systems for applications (e.g. software reliability, software and hardware testing, modelling of natural languages)
- descriptive complexity aspects of nature-motivated (bio-inspired) architectures and unconventional models of computing
- Kolmogorov complexity and its relation to descriptive complexity



## Organizing Committee:

Ian McQuillan (Chair)  
Wayne Clarke  
Andrew Couperthwaite  
Shakiba Jalal  
Jillian Slind  
Brett Trost

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