Graph Minors and Structure Graph Theory

Organizer(s):
Ken-ichi Kawarabayashi (National Institute of Informatics, Japan)

Description:
In this session, we shall discuss recent progress on Graph Minors and Structure Graph Theory. Topics include graph minors and matroid minors, graph width, the disjoint paths problem and algorithmic applications.

Titles and Speakers:

- *Structure theorem for the minimal counterexample to Hadwiger's Conjecture.*
  Ken-ichi Kawarabayashi (National Institute of Informatics, Japan), Bruce Reed (McGill University)

- *Circle graph obstructions under pivoting*
  Sang-il Oum (University of Waterloo), Jim Geelen (University of Waterloo)

- *Linear time algorithm for recognizing K_5-minors*
  Zhentao Li (University of Waterloo), Bruce Reed (Canadian Research Chair in Graph Theory, McGill University)

- *Graph minors in (nearly) linear time*
  Bruce Reed (Canadian Research Chair in Graph Theory, McGill University), Ken-ichi Kawarabayashi (National Institute of Informatics, Japan), Zhentao Li (University of Waterloo)

- *TBA*
  Neil Robertson (Ohio State University)