

ANNOUNCEMENT AND CALL FOR PAPERS  
**WORKSHOP ON TYPICAL CASE COMPLEXITY  
AND PHASE TRANSITIONS**

Affiliated with the IEEE Symposium on Logic in Computer Science, LICS 2003

June 21, 2003, Ottawa, Canada

**WEB ADDRESS**

[www.scs.carleton.ca/~kranakis/LICS-03.html](http://www.scs.carleton.ca/~kranakis/LICS-03.html)

**INVITED SPEAKERS**  
(confirmed)

Jennifer Chayes (Seattle)  
Nadia Creignou (Marseille)  
Paul Beame (Seattle)  
John Franco (Cincinnati)

**ADDRESS FOR SUBMISSION**

**Short abstracts of at most five pages  
in postscript or pdf to:**

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[kranakis@scs.carleton.ca](mailto:kranakis@scs.carleton.ca)

**IMPORTANT DATES**

Submission: April 28, 2003  
Notification: May 12, 2003  
Camera-ready abstracts: May 26, 2003

Typical-case complexity refers to algorithmic complexity that holds with high probability for a class of random instances of a problem. Usually, the class of instances considered is parameterized by a “control parameter.” It has been observed that for many computationally interesting problems, their typical-case complexity undergoes an abrupt change (phase transition) about a critical value of the control parameter. At the same critical region, other phenomena of combinatorial interest are often observed. Papers reporting on experimental and theoretical research in this area are solicited, especially if they are the outcome of cross-fertilization between computer simulation results and mathematical advances in discrete mathematics, probability theory or theoretical computer science. Of particular interest are threshold phenomena in which logic comes into play and connections to Proof Complexity, Satisfiability, and Statistical Physics.

**Program Committee:**

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