



## Thematic Session

**Session title:** Computational Logic

**Organizers:**

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**Description of the topic:**

Traditionally, logic was a subject of philosophy and later a tool for mathematics. In the last fifty years, however, logic has become an integral part of theoretical computer science and several important subjects in logic are being developed in close interaction with computer science. Examples include finite and computational model theory, automata theory, computer-aided verification, database theory and many other fields.

In many of these fields, there is a strong computational aspect in the logical tools facilitated. German and Polish researchers have taken an important role in this development and work actively on applications of logic in computer science.

The aim of this session is to bring together logicians, mathematicians and computer scientists who use logic as a fundamental tool in their research, especially with a computational component.

**2011 Mathematic Subject Classification:**

03B70 'Logic in computer science'