Can Computers Compute?

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Professor Tucker has received numerous awards, including the European Mathematical Society prize for distinguished contributions in mathematics.

Why does your computer tell you that a sixth-degree polynomial has more than 20 real roots?
Why does your computer claim that 17! is a negative number?

Professor Tucker will present a set-valued approach to computing, aiming to produce enclosures rather than approximations to sought quantities. No previous knowledge of computer arithmetic required, nor any mathematics beyond basic calculus.

March 14, 2007
3:30-4:30pm
Minor Hall 130

Organizer: Irina Mitrea, Department of Mathematics