## Formal Verification - Deciding the Undecidable

## **Orna Kupferman, The Hebrew University**

## **Abstract**

The undecidabilty of the halting problem implies that formal reasoning about computerized systems is not a feasible task. Still, formal-verification algorithms and tools are successfully used in design and development of systems. The talk surveys the main ideas behind formal verification and in particular how it copes with huge, often infinite, state spaces.