2017 RABIN LECTURE

Reactive Systems: A Powerful Paradigm for Modeling and Analysis from Engineering to Biology

MONDAY
18.12
2017
at 14:00

At the Brindell & Milton Gottlieb Auditorium
(School of Computer Science & Engineering)
Edmond J. Safra Campus, The Hebrew University
of Jerusalem, Givat Ram, Jerusalem

The first Michael O. Rabin Lecture is part of the Advanced
School in Computer Science & Engineering at the Israel Institute
for Advanced Studies

Thomas A. Henzinger
President of the Institute of
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A reactive system is a dynamic system that evolves in time by reacting to external events. Computer science has developed powerful models, theories, algorithms, and tools for analyzing and predicting the behavior of reactive systems. These techniques were originally developed to let us build a more dependable computer infrastructure, but their utility transcends computer science. For example, both an aircraft and a living organism are complex reactive systems. Our understanding and the design of such systems can benefit greatly from reactive modeling and analysis techniques such as execution, composition, abstraction, and state exploration.