



*Die Fakultät für Informatik der Universität Wien lädt Sie herzlich ein zum*

## **CS-Colloquium**

### **Designing Adaptive Software Systems.**

**Prof. John Mylopoulos**

University of Trento (Italy)

**Wann?** 12. Dezember 2012, 16:00 Uhr

**Wo?** Hörsaal 3  
Währinger Straße 29  
1090 Wien

#### **Abstract**

Adaptive systems of any sort (software, hardware, biological or social) consist of a base system that carries out activities to fulfill some requirements  $R$ , and a feedback loop that monitors the performance of the system relative to  $R$  and takes corrective action if necessary. We adopt this view of adaptivity for software-intensive systems and sketch a framework for designing adaptive systems which starts with requirements models, extends them to introduce control-theoretic concepts, and uses them at run-time to control the behaviour of the base system. The presentation is based on joint research with Vitor Souza and Kostas Angelopoulos (University of Trento, Italy), João Henrique Pimentel (Federal University of Pernambuco, Brazil) and Alexei Lapouchnian.

#### **Bio**

John Mylopoulos holds a distinguished professor position (chiara fama) at the University of Trento, and a professor emeritus position at the University of Toronto. His research interests include conceptual modelling, requirements engineering, data semantics and knowledge management.

#### **Contact**

Mag. Werner Schröttner, [werner.schroettner@univie.ac.at](mailto:werner.schroettner@univie.ac.at), Tel. +43 1 4277 780 03  
<http://informatik.univie.ac.at>