



Πανεπιστήμιο Κύπρου  
Σχολή Θετικών και  
Εφαρμοσμένων Επιστημών



ΠΡΟΣΚΛΗΣΗ

Η Σχολή Θετικών και Εφαρμοσμένων Επιστημών  
σας προσκαλεί σε διάλεξη με θέμα:

«*Data Systems Reimagined:  
Real-Time Intelligence for a Heterogeneous Future*»

**Δευτέρα, 30 Ιουνίου 2025, στις 18:00**

Αμφιθέατρο Β108, Κτήριο Συμβουλίου-Συγκλήτου «Αναστάσιος Γ. Λεβέντης»,  
Πανεπιστημιούπολη

Ομιλήτρια: **Professor Anastasia Ailamaki,**  
École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

### Σύνοψη

Data management systems need to be redesigned due to: (a) the increased compute and memory needs of AI applications; and (b) increasingly heterogeneous hardware platforms. The decades-old assumptions upon which traditional data management systems are designed are obsolete because of increased runtime requirements. This talk explores the fundamental challenges and opportunities from the synergy of database and AI technologies, which enables systems that learn from their workload and environment to make intelligent, real-time decisions. Furthermore, we'll examine how the growing variety in computer hardware, from specialized processors to complex memory hierarchies, necessitates this shift towards adaptive systems. Finally, this talk will argue that runtime intelligence is a critical design principle for the future of data-intensive research and applications across all scientific disciplines.

### Professor Anastasia Ailamaki

Anastasia Ailamaki is a Professor of Computer and Communication Sciences at the École Polytechnique Fédérale de Lausanne (EPFL), a visiting researcher at Google, and the co-founder and Chair of the Board of Directors of RAW Labs SA, a Swiss company developing systems to analyze heterogeneous big data from multiple sources efficiently. She earned a Ph.D. in Computer Science from the University of Wisconsin-Madison in 2000. She has received the 2019 ACM SIGMOD Edgar F. Codd Innovations Award and the 2020 VLDB Women in Database Research Award. She is also the recipient of an ERC Consolidator Award (2013), the Finmeccanica endowed chair from the Computer Science Department at Carnegie Mellon (2007), a European Young Investigator Award from the European Science Foundation (2007), an Alfred P. Sloan Research Fellowship (2005), an NSF CAREER award (2002), twelve best-paper awards and three Test-of-Time prizes at international scientific conferences. She has received the 2018 Nemitsas Prize in Computer Science by the President of Cyprus and the 2021 ARGO Innovation Award by the President of the Hellenic Republic. She is an ACM fellow, an IEEE fellow, a member of the Academia Europaea, and an elected member of the Swiss, the Belgian, the Greek, and the Cypriot National Research Councils.

Η διάλεξη θα δοθεί στα αγγλικά και είναι ανοιχτή για το κοινό με κράτηση θέσεων.  
Θα ακολουθήσει δεξίωση.