ΔΙΑΛΕΞΗ

Adaptive Resource Location and Query Processing in Distributed Systems

Δημήτριος Τσουμάκος

Επισκέπτης Λέκτορας - Τμήμα Πληροφορικής
Παν/μιο Κύπρου

Περίληψη

In the first part of the talk, previous work in efficient content location and distribution for Unstructured Peer-to-Peer overlays is described. The Adaptive Probabilistic Search (APS) scheme utilizes directed walkers to forward queries on a hop-by-hop basis. Peers store success probabilities for each of their neighbors in order to efficiently route towards objectholders. In the GrouPeer project, we apply many of these techniques in order to identify and group peers with similar schemas in an interconnected network of autonomous databases.
In the second part of the talk, I will present some of my current work which focuses on presenting distributed systems that support on-line data analytics. HiPPIS and PASSION are systems that utilize adaptive algorithms that automatically adjust the level of indexing (for hierarchically organized data or ranges respectively) according to the granularity of the incoming queries, without assuming any prior knowledge of the workload. Brown Dwarf is a complete system for distributing and querying data-cubes w.r.t. load and network/node failures.

Σύντομο Βιογραφικό

Dimitrios Tsoumakos is a visiting lecturer at the Computer Science Department of UCY. He received his Diploma in Electrical and Computer Engineering from NTUA in 1999, joined the graduate program in Computer Sciences at the University of Maryland in 2000, where he received his M.Sc. (2002) and Ph.D. (2006). He has been collaborating as a senior researcher with the Computing Systems Laboratory in the Department of Electrical and Computer Engineering of the National Technical University of Athens (NTUA) since 2006.

Πληροφορίες: Ευαγγελία Πιτουρά.
Ο κ. Τσουμάκος είναι υποψήφιος σε θέση ΔΕΠ με αντικείμενο «Κατανεμημένα Συστήματα».

Τρίτη, 23 Φεβρουαρίου 2010 – ώρα 11:00
Αίθουσα Σεμιναρίων, Κτίριο Πληροφορικής
Πανεπιστήμιο Ιωαννίνων

Τμήμα Πληροφορικής - Σεμινάρια 2010