

У четвртак 20. маја, у кабинету 718, са почетком у 9:30 одржаће се предавање

Stephen Taylor:

APLs - Parallel Programming Languages

Позивају се сви заинтересовани, а посебно студенти дипломских студија и завршних година основних студија рачунарских смерова и модула.

Lecturer:

Stephen Taylor is a programmer who specialises in array languages. He has lived and worked in Australia, Britain, Denmark, Korea, Switzerland and the United States; he is now based in London, where he serves as editor of Vector, the journal of the British APL Association.

Why should you be interested?

Interest in array languages has revived in recent years. Three factors are responsible. The use of multiple machine cores has focused attention on languages that might ease parallel processing. An in-memory column-store database array language has become the dominant technology in the financial sector for handling market datafeeds. And cloud computing has revived an informal style of software development associated with array languages long before Extreme Programming appeared. Taylor will show what array-language programs look like, what they are like to write, and how software gets developed rapidly by small teams working closely with users.

Abstract:

- What is an APL: Exotic programming languages derived from a mathematical notation. Like math, designed for thinking rather than for driving machines.
- Brief history. Early popularity as medium for 'personal computing' before PCs. Persistence in scientific, and mathematical applications in finance and insurance. Resurgence with vast data flows.
- Elements of the language: arrays as first-class objects, reduction of arrays, higher-order functions
- An alternative tradition in software development. APL teams have always been tiny, agile and exploratory. In the last half century they have been highly valued in the fast-changing world of financial trading rooms. Renewed interest as Moore's Law ends and we use parallel processing to chew swelling datastreams. I forecast further interest in improvised and hand-crafted IT solutions as economies wobble and corporate IT budgets shrink