

Odborná skupina biomedicínské informatiky a statistiky

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Mgr. Martin Nečaský (KSI MFF UK): Konceptuální model pro XML data

ve čtvrtek 2. listopadu 2006 od 13:00 hod.

Přednáška se koná v počítačové učebně EuroMISE centra, Ústav informatiky AV ČR (1. patro místnost č. 222), Pod vodárenskou věží 2, 182 07 Praha 8 – Libeň, stanice metra C Ládví.

Souhrn:

In this paper we propose a conceptual model for XML data called XSEM. The main idea of our work is to divide the XML conceptual modeling process to two parts. The first part consists of designing an overall conceptual schema using an extension of the classical E-R model proposed by Chen called XSEM-ER. The second part consists of designing a hierarchical organization of the structures from the first part using a hierarchical model called XSEM-H. The hierarchical organization is derived from the XSEM-ER level by operators for the transformation of non-hierarchical XSEM-ER constructions to hierarchical XSEM-H constructions. It is possible to design more than one hierarchical organization of the same data modeled by an XSEM-ER schema. XML schemes are directly derived from XSEM-H hierarchical schemes.

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Alexander Fradkov

Introduction to Cybernetical Physics

Wednesday November 1, 2006, 14:00 auditorium 3, ground floor  
Institute of Information Theory and Automation (UTIA)

An introduction to Cybernetical Physics (an emerging area of research dealing with application of cybernetical methods to studying physical systems) is given. Speed-gradient based solutions for energy control problems in conservative and dissipative systems are presented. The general ideas are illustrated by examples:

- feedback resonance phenomenon in nonlinear oscillators,
- controlled Kapitsa pendulum,
- feedback escape from potential wells,
- adaptive synchronization of chaotic systems.

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