Zpravodaj pro kybernetiku a informatiku

ČSKI Česká společnost pro kybernetiku a informatiku

Člen: CEPIS, ECCAI, ESSU, IAPR, IASS/AIS, IFAC, IFIP. Založena 1966.

červen 2012

Sekretariát: Pod vodárenskou věží 2, 182 07 Praha 8 – Libeň tel: 2 6605 3901 fax: 2 8658 5789 e-mail: cski@utia.cas.cz

http://www.cski.cz

Valná hromada ČSKI

Ještě jednou zveme všechny členy na valnou hromadu ČSKI, která se koná v pátek 22. června 2012 v 15 hodin ve vile Lanna (V sadech 1, 16000 Praha 6). Na programu valné hromady budou zprávy o činnosti a hospodaření ČSKI a diskuse o činnosti Společnosti. V průběhu valné hromady budou slavnostně předány ceny vítězům soutěže Antonína Svobody.

Těšíme se nashledanou s co největším počtem členů.

Červnové kalendárium

13. K. Chvalovský: Linearization of Proofs in Propositional Hilbert Systems

27. J. Glivická, M. Blicha: Forcing: Eastonova věta a bi-interpretace

Odborná skupina aplikované matematické logiky

Vás zve na semináře, které se konají vždy **ve středu v 9:00 hod.** v zasedacím sále Ústavu informatiky AV ČR (místnost č. 318), Pod vodárenskou věží 2, 182 07 Praha 8 – Libeň, stanice metra C Ládví.

Program:

13. června **Karel Chvalovský: Linearization of Proofs in Propositional Hilbert Systems**

Let us have a propositional Hilbert-style proof system containing axioms (strictly speaking schemata of axioms) B (prefixing) and B' (suffixing) with implicit substitution and modus ponens as the only rule. We prove that any proof in such a proof system can be transformed into a linear proof. A proof is linear if it uses only a modified version of modus ponens: from A and A->B derive B, where A can only be an instance of an axiom or assumption. As prefixing and suffixing are provable in many propositional logics we can obtain similar property for many sets of axioms by adding B and B'. However, a new linear proof can be significantly longer than the original proof. It means that this result is unlikely to be used for the actual proof search, but it can be used for some metamathematical considerations.

27. června **Jana Glivická, Martin Blicha: Forcing: Eastonova věta a bi-interpretace**

Ukážeme si nejdůležitější tvrzení o funkci kontinua v teorii množin. Zaměříme se především na Eastonovu větu, předvedeme její důsledky pro velké kardinály a důsledky existence velkých kardinálů na možné hodnoty funkce kontinua. Připomeneme pojem interpretace (a vztah forcingu a interpretace) a zavedeme pojem bi-interpretace. Ukážeme, že vzájemná interpretovatelnost dvou teorií neimplikuje jejich bi-interpretovatelnost. Hlavní metodou nám bude forcing.

Různé konference

CASoN 2012 – 4th International Conference on Computational Aspects of Social Networks, Sao Carlos, Brazil, Novemver 21-23, 2012. Paper submission deadline: August 15, 2012. http://www.mirlabs.org/cason12

IAS 2012 – 8th International Conference on Information Assurance and Security, Sao Carlos, Brazil, Novemver 21-23, 2012. Paper submission deadline: August 15, 2012. http://www.mirlabs.org/ias12

NWeSP 2012 – 8th International Conference on Next Generation Web Services Practices, Sao Carlos, Brazil, Novemver 21-23, 2012. Paper submission deadline: August 15, 2012. http://www.mirlabs.org/nwesp12

NaBIC 2012 – Fourth World Congress on Nature and Biologically Inspired Computing, Mexico City, Mexico, November 05-09, 2012. Paper submission deadline: August 15, 2012. http://www.mirlabs.org/nabic12

WICT 2012 – World Congress on Information and Communication Technologies, Trivandrum, India, October 30 - November 2, 2012. Paper submission deadline: August 15, 2012. http://www.mirlabs.org/wict12

ISDA 2012 – Twelfth International Conference on Intelligent Systems Design and Applications, Cochin (Kochi), India, Novemver 27-29, 2012. Paper submission deadline: August 31, 2012. http://www.mirlabs.org/isda12

Volná místa

Doctoral Fellowships in Control Systems and Power System Dynamics

A number of doctoral fellowships are available in the Control, Instrumentation and Electrical Systems Laboratory at the University of Western Ontario in Canada.

The lab houses a number of state-of-the-arts industrial grade and dedicated research facilities in distributed control systems, power plant simulators, as well as a small scale microgrid with diverse physical energy sources (PV, wind, fuel cell, and synchronous generators), and controllable loads and energy storage devices (batteries, super-caps, controllable electronic loads, and wireless-enabled smart meters).

The successful candidates will be working with a group of dynamic researchers on the design, analysis, and proof-of-concept implementation of control systems for power plants, power systems, and smart grids. The lab offers an inspiring and challenging environment for a self-motivated individual. An ideal candidate should have an advanced degree (MESc) in control system engineering or power system engineering. Previous experience on multivariable control systems, power electronic converters/inverter controls, and power dynamics and control will favourably be considered.

Interested applicants should send their curriculum vitae to:

Prof. Jin Jiang, Dept. of Electrical Computer Engineering, University of Western Ontario, London, Ont., N6A 5B9 CANADA
E-mail: jjiang@eng.uwo.ca

The selection process will commence as the applications arrive.

Embry-Riddle Aeronautical University

PhD positions are available in the area of DYNAMICS AND CONTROL OF AEROSPACE SYSTEMS under the supervision of Prof. Mahmut Reyhanoglu, Prof. Sergey Drakunov, and Prof. William MacKunis at the Department of Physical Sciences, Embry-Riddle Aeronautical University located in Daytona Beach. These positions cover full tuition and fees plus a $20,000 per year stipend. Requirements include a strong background in control theory, dynamic systems and mathematics; a Master's degree in engineering, physics, or applied mathematics; and excellent skills in using Matlab and Simulink. It is also desirable that the candidates have hands-on experience on feedback control. It is expected that the candidates have excellent GRE and TOEFL (if necessary) scores as well as strong communication and writing skills.

For details and application procedures, please visit
http://www.erau.edu/db/degrees/phd-engineeringphysics.html

Contact: Prof. Mahmut Reyhanoglu, Physical Sciences Department, Embry-Riddle Aeronautical University, Daytona Beach, Florida.

E-mail: reyhanom@erau.edu

Vydává Česká společnost pro kybernetiku a informatiku pro potřeby svých členů. Neprodejné. Neprošlo korekturami ani jazykovou úpravou. Informace o členství v ČSKI na jejím sekretariátě. Příspěvky posílejte na adresu sekretariátu (přednostně emailem a v elektronické formě LaTeX).
Uzávěrka příštího čísla: 25. září 2012.

Texty z tohoto zpravodaje smějí být uveřejněny jinde jako celek i po částech. Prosíme ovšem o uvedení odkazu na ČSKI jako zdroj.