

Zpravodaj pro kybernetiku a informatiku

ČSKÍ Česká společnost pro kybernetiku a informatiku

listopad
2015

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

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Listopadové kalendárium

11. **Diana Piguet: An approximate solution of the Tree Packing Conjecture for trees of bounded maximum degree**
12. **The 37th Pattern Recognition and Computer Vision Colloquium, Autumn 2015**
18. **Rostislav Horčík: Constraint Satisfaction Problems - a brief introduction**
25. **Stanislav Žák: Branching programs - inherent logic vs. complexity**

Odborná skupina pro rozpoznávání – CPRS

pořádá spolu s Centrem strojového vnímání (CMP) katedry kybernetiky ČVUT FEL dne 12. listopadu od 10:50 hodin

The 37th Pattern Recognition and Computer Vision Colloquium, Autumn 2015

Kolokvium se koná v místnosti č. 205, FEL ČVUT, Karlovo nám. 13, Praha 2, budova G.

Program:

- 10:50-11:00 **Welcome and speaker introduction**
11:00-11:45 Michael Bronstein (Universita della Svizzera Italiana, Lugano, Switzerland)
Deep learning on geometric data
11:45-12:30 Shai Avidan (Tel Aviv U., Isreal)
Enumerate! Don't Estimate.
12:30-13:30 *Lunch break*
13:30-14:15 Jan Peters (TU Darmstadt, Germany)
Motor Skill Learning: From Simple Skills to Table Tennis and Manipulation
14:15-15:00 Joao Henriques (U. of Coimbra, Portugal)
The Fastest Learning in the West: Practical Tracking with Correlation Filters
Coffee break
15:30-16:15 Filip Radenovic (Center for Machine Perception, CTU Prague, Czech Republic)
Image Retrieval 2.0
16:15-17:00 Roman Juranek (Brno University of Technology, Czech Republic)
Real-time pose estimation piggybacked on object detection
17:00 - CMP visit (laboratory, demos, posters), informal discussion

Další informace viz

<http://cmp.felk.cvut.cz/cmp/events/colloquium-2015.11.12/>

Odborná skupina aplikované matematické logiky

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

Pozor! Začátek seminářů je posunut na 10 hodin!

Program:

11. listopadu **Diana Piguet: An approximate solution of the Tree Packing Conjecture for trees of bounded maximum degree**
A family of graphs (H_1, \dots, H_k) packs into a graph G if there exist pairwise edge-disjoint copies of H_1, \dots, H_k in G . The Tree Packing Conjecture states that any family (T_1, \dots, T_n) of trees with $|V(T_i)| = j$ packs in the complete graph of order n . We prove a theorem that implies an asymptotic version of the Tree Packing Conjecture for the class of trees with bounded maximum degree. A randomized embedding strategy controlled by the nibbling method is the core of the proof. This is a joint work with J. Böttcher, J. Hladký and A. Taraz.

18. listopadu **Rostislav Horčík: Constraint Satisfaction Problems - a brief introduction**

The purpose of this talk is to define constraint satisfaction problems (CSP) and to give a brief summary of existing results focusing mainly on algebraic techniques which turned out to be very powerful.

25. listopadu **Stanislav Žák: Branching programs - inherent logic vs. complexity**

Pracovní rozhovor nad textem [1] mající za úkol ověřit, zda myšlenky zde naznačené je možno nějak rozvíjet, a především, zda z logických charakteristik programu je možno vytěžit složitostní konsekvence.

[1] S. Žák - Inherent Logic and Complexity, ECCC TR15-029.

Volná místa

Postdoctoral Position in System Dynamics Modeling of Spinal Cord Regeneration

A Postdoctoral Research Associate position is available for joining an interdisciplinary research team established by the Laboratory of Neurobiology (PI: Professor Günther K.H. Zupanc; Department of Biology) and the Complex Dynamical Systems & Control Laboratory (PI: Professor Rifat Sipahi; Department of Mechanical and Industrial Engineering) at Northeastern University, Boston, Massachusetts, USA.

Funded by the National Science Foundation, the postdoctoral researcher will work on a project at the intersection of neuroscience, regenerative biology, applied mathematics, and system dynamics, involving computational and mathematical modeling of regeneration after spinal cord injury in regeneration-competent organisms. The successful candidate will have genuine interest in biological systems, and will hold a Ph.D. in a relevant discipline with strong background in modeling of dynamical systems, e.g., using agent-based modeling, partial differential equations, and/or a mix of similar techniques.

The appointed candidate will also have the opportunity to become involved in the writing of manuscripts, preparing grant proposals, supervising graduate and undergraduate students, and participating in outreach activities.

This position is available immediately for one year, with the possibility of extension for two more years. A competitive salary and fringe-benefits package will be offered. Please combine the following documents into a single PDF and send the PDF by e-mail to both principal investigators, Professor Günther K.H. Zupanc (email: g.zupanc@neu.edu) and Professor Rifat Sipahi (email: rifat@coe.neu.edu): Motivation letter (no more than 2 pages); Curriculum vitae (as detailed as possible; please present your journal publications separately from conference publications); Names of at least three references, including contact details (one of which must be the PhD advisor of the candidate); pdfs of possible publications.

Různé konference

ACS'16 – 16th International Conference on Applied Computer Science, Istanbul, Turkey, April 15-17, 2016. Paper submission deadline: February 15, 2016
<http://www.wseas.org/cms.action?id=11327>

EBCCSP 2016 – 2nd International Conference on Event-based Control, Communication, and Signal Processing, Krakow, Poland, June 13-15, 2016. Paper submission deadline: February 14, 2016
<http://www.ebccsp2016.org>

Vydává Česká společnost pro kybernetiku a informatiku pro potřeby svých členů. Neprodejné. Neprošlo korekturami ani jazykovou úpravou. Informace o členství v ČSKÍ na jejím sekretariátě. Příspěvky posílejte na adresu sekretariátu (přednostně emailem a v elektronické formě LaTeX).

Uzávěrka příštího čísla: 25. listopadu 2015.

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