

Zpravodaj pro kybernetiku a informatiku

ČSKI Česká společnost pro kybernetiku a informatiku

březen
2018

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Březnové kalendárium

7. **P. Cintula: Abstract consequence relations I: from multiset consequence to a general picture**
14. **T. Moraschini: Abstract consequence relations II: the categorial perspective**

Odborná skupina pro logiku, pravděpodobnost a usuzování

Vás zve na semináře, které se konají vždy **ve středu** v 10 hodin v zasedacím sále Ústavu informatiky AV ČR (místnost č. 318), Pod Vodárenskou věží 2, 182 07 Praha 8 – Libeň, stanice metra C Ládví.

Program:

7. března **Petr Cintula: Abstract consequence relations I: from multiset consequence to a general picture**
14. března **Tommaso Moraschini: Abstract consequence relations II: the categorial perspective**

Volná místa

National Institute of Informatics, Japan

For our 5-year research project (ERATO MMSD, Metamathematics for Systems Design) we are looking for - senior researchers and - postdocs (10+ positions in total and a few are still open), together with research assistants (PhD students) and internship students.

This broad project aims to extend the realm of formal methods from software to cyber-physical systems (CPS), with particular emphases both on logical/categorical metatheories and industrial application esp. in automotive industry. The project covers diverse areas that include: control theory, control engineering, formal methods, programming languages, software science, software engineering, machine learning, numerical optimization, user interface, mathematical logic and category theory.

For more about the project please visit <http://group-mmm.org/eratommmsd>

About the open positions <http://group-mmm.org/eratommmsd/openpositions.html> has more information (including how to apply/inquire).

Post-doctoral position at INRIA Grenoble, France

This post-doc position subject is about Linear Complementarity Systems (LCS) analysis, which make an important class of hybrid dynamical systems with applications in circuits with piece-wise linear components, optimal control with state inequality constraints, genetic networks, etc. In particular the design of time-varying stabilizing controllers, both by state and output feedback (keeping in mind that LCS are strongly nonlinear and nonsmooth dynamical systems, for which the separation principle does not automatically apply), will be tackled. Theoretical results will be supported by numerical simulations obtained with the INRIA software package SICONOS (<http://siconos.gforge.inria.fr/4.1.0/html/index.html>).

Location: INRIA Grenoble, France. Applicants should hold a PhD (defended between 1st September 2016 and 31st July 2018) in Systems and Control or Applied Mathematics. Starting date: 1st November 2018, duration: 16 months. Gross salary: 2650 Euros per month. Applications have to be made on-line on the INRIA web site before end of March. For more details please contact Dr Bernard Brogliato (bernard.brogliato@inria.fr) or Dr Christophe Prieur (christophe.prieur@gipsa-lab.fr).

University of Utah, USA

A Postdoctoral Scholar position is available for joining the Utah Smart Energy Lab at the Department of Electrical and Computer Engineering at the University of Utah, Salt Lake City, Utah, USA. The postdoctoral researcher will work on a project funded by the U.S. Department of Energy on developing novel stochastic optimal control models for power systems operation with renewable

energy resources, energy storage devices and controllable loads. The successful candidate should hold a Ph.D. in a relevant discipline with strong background in control systems design, stochastic optimization, and power systems operation.

Candidates should send an email to Dr. Masood Parvania, at masood.parvania@utah.edu, along with the following documents: Motivation letter (no more than 1 page; Curriculum vitae; Names and contact information of at least two references; PDFs of at least two relevant publications.

Postdoc Position at U.S. Army Research Laboratory (ARL)

Position Description - Postdoctoral Fellow: The U.S. Army Research Laboratory is seeking distinguished postdoctoral associates to conduct basic/applied research in the areas of i) distributed (nonconvex) optimization in contested/adversarial environment; ii) big-data analytics over resource constraint networks; and iii) distributed, resource-aware learning. The postdoctoral associates are expected to conduct fundamental research in collaboration with ARL scientists and engineers to build a foundation for distributed data science. Successful candidates will have the opportunity to collaborate with researchers from top academic institutions through several partnerships between Army laboratories, private industry and academia.

Position Qualifications: We are looking for candidates with strong background in distributed optimization, analysis of large datasets, machine learning, multi-agent optimization, and network analysis. Candidates should have the potential to publish in premier journals. All applicants must have strong mathematical and computing skills. Applicants should possess a Ph.D. in Mathematics, Statistics, Engineering, or other relevant fields. Applicants are expected to be highly motivated and intellectually curious researchers at an early stage of their scholarly career. Applicants are NOT required to be US citizens or permanent residents.

Application Process: The positions are available immediately and offered for one-year term, subject to renewal (up to three more years) based on performance. Salary is highly competitive and commensurate with rank and qualifications. Review of applications will begin immediately and continue until the positions are filled. Applicants must provide

- (1) one page cover letter,
- (2) curriculum vita including a list of publications,
- (3) research statement (no more than 3 pages); and
- (4) names and contact information for three references.

Please send all materials to: Jemin George (jemin.george.civ@mail.mil)

Různé konference

CSCC 2018 – 22nd International Conference on Circuits, Systems, Communications and Computers, July 14-17, 2018, Majorca, Spain. Paper submissions deadline: March 15, 2018. www.cscconline.org

HCist 2018 – International Conference on Health and Social Care Information Systems and Technologies, November 21-23, 2018, Lisbon, Portugal. Paper submissions deadline: April 30, 2018. <http://hcist.scika.org/>

IARMM 2017 – 7th World Congress of Clinical Safety, September 7-8, 2018, Best Western Hotel Bern, Switzerland. Abstracts submissions deadline: April 30, 2018. <http://www.iarmm.org/7WCCS/>

ICCAS 2018 – The 18th International Conference on Control, Automation and Systems, October 17-20, 2018, YongPyong Resort, PyeongChang, Gangwon Province, Korea. Paper submissions deadline: May 31, 2018. <http://2018.iccas.org/>

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: 27. března 2018.

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