

Zpravodaj pro kybernetiku a informatiku

ČSKÍ Česká společnost pro kybernetiku a informatiku

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Prosincové kalendárium

- 5. J. Outrata: Variational tools in analysis of multifunctions
- 9. Prague Workshop on Nonclassical Logics
- 14. S. Lapenta: From logic to functional analysis via Riesz MV-algebras
- 21. Vánoční posezení

Odborná skupina pro logiku, pravděpodobnost a usuzování

Vás zve na přednášku v budově ÚTIA AV ČR, Pod Vodárenskou věží 4, 182 08 Praha 8 – Libeň.

Jiří Outrata ÚTIA AV ČR

Variational tools in analysis of multifunctions

Přednáška se koná 5. prosince od 14:00 hod. v místnosti č. 25.

Souhrn. Local analysis of various types of Lipschitzian stability of multifunctions is one of the central topics in modern variational analysis. The obtained results have numerous applications in post-optimal analysis of solutions to parameterized equilibrium problems, in the treatment of the so-called equilibrium constraints, and also in the generalized differential calculus.

Our main attention will be concentrated on the verification of two distinguished Lipschitzian stability properties, namely, the existence of a single-valued Lipschitzian localization and the Aubin (Lipschitz-like) property. To this aim, the basic generalized derivatives will be introduced and some first- and second-order rules of the generalized differential calculus will be presented. This background enables us to derive workable criteria for the mentioned stability properties which are applicable, e.g., in multifunctional extensions of the classical Implicit function theorem. In turn, these results create a theoretical basis for the so-called Implicit programming approach, which is an efficient technique for the treatment of a fairly broad class of optimization problems with parameterized equilibria among the constraints. The lecture will end up with a refinement of the derived condition, guaranteeing the Aubin property of implicit multifunctions. To this purpose, we employ the recently defined directional limiting coderivative which allows a fine analysis of the investigated multifunctions along specified directions.

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:

- 14. prosince Serafina Lapenta: From logic to functional analysis via Riesz MV-algebras

We will see how Riesz MV-algebras unit intervals of vector lattices provide a useful tool in the pursuit of a logical system that can have compact Hausdorff spaces as models. The starting point is the definition of a syntactical notion of limit which turns out to be equivalent to order convergence in the Lindenbaum-Tarski algebra of the logic considered.

- 21. prosince Vánoční posezení

Prague Workshop on Nonclassical Logics

<http://www.cs.cas.cz/horcik/pwnl2016/>

Seminář se koná 9. prosince 9:20 – 16:30 hod v Ústavu informatiky AV ČR, Pod Vodárenskou věží 2, Praha 8 – Libeň, stanice metra C Ládví.

Různé konference

CSCC 2017 – 21st International Conference on Circuits, Systems, Communications and Computers, Agia Pelagia Beach, Crete Island, Greece, July 14-17, 2017. Paper submission deadline: March 30, 2017
<http://www.cscs.co/index.html>

FUSION 2017 – 20th International Conference on Information Fusion, XiŠan, China, July 10-13, 2017. Paper submission deadline: March 1, 2017
<http://www.fusion2017.org>

MED'17 – 25th Mediterranean Conference on Control and Automation, Valletta, Malta, July 3-6, 2017. Paper submission deadline: February 6, 2017
<https://www.um.edu.mt/events/med2017/>

FUZZ-IEEE 2017 – IEEE International Conference on Fuzzy Systems, Naples, Italy, July 9-12, 2017. Paper submission deadline: January 25, 2017
<http://www.fuzzieee2017.org/index.html>

Volná místa

University of California at Berkeley, USA

Multiple postdoctoral positions are available in the Department of Industrial Engineering and Operations Research at University of California, Berkeley. The positions are on optimization theory, data science, energy systems, and distributed control. To apply, please email a CV along with sample research papers to Professor Javad Lavaei (lavaei@berkeley.edu).

Paderborn University, Germany

The Automatic Control Group (Prof. Daniel Quevedo) in the Department of Electrical Engineering at the Paderborn University is seeking a Lecturer (Akademische Rätin/ Akademischer Rat auf Zeit).

This is a full-time position, initially limited to three years, with the possibility of further extensions. The position is available immediately.

Your duties and responsibilities: The candidate will be actively involved in research projects of the Automatic Control Group and also support some of its teaching activities.

Our current research interests lie in networked estimation and control, including topics such as control with limited communication or computation resources, event-driven feedback, energy harvesting, distributed architectures, security, and privacy. For further information on our activities, see <http://control.upb.de>

Your profile: - Applicants must have received a doctoral degree in electrical engineering or a related field and have a proven capacity for high-quality research. - Fluency in English and German is required.

We offer a stimulating work environment in an international team and an attractive remuneration package according to pay scale A13 of the German public service (approx. ^4.000/ month).

Applications from women are particularly welcome and, in the case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply. The applicant may choose to have the staff council (WPR) involved in his/her appointment.

Please send your application (including a cover letter, your CV, list of publications, and contact details of three referees) to Ines Kaiser, ines.kaiser@upb.de by 15. January 2017. In your application, please mention the reference no. 2767.

Vydává Česká společnost pro kybernetiku a informatiku pro potřeby svých členů. Neprodejně. 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: 27. prosince 2016.

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