Ivan Markovsky's Curriculum Vitae

Department ELEC, Vrije Universiteit Brussel
Pleinlaan 2, Building K, B-1050 Brussels, Belgium

http://homepages.vub.ac.be/~imarkovs
ivan.markovsky@vub.ac.be

DEGREES

- 2/2005, PhD in electrical engineering, Katholieke Universiteit Leuven
- 6/1998, MS in control engineering, Technical University of Sofia
- 6/1997, BS in control engineering, Technical University of Sofia
- 6/1992, National mathematics high school degree, specialization physics, Sofia

CURRENT AND PAST POSITIONS

- 10/12–current, hoofddocent, Vrije Universiteit Brussel
- 03/12–09/12, senior lecturer, University of Southampton
- 01/07–03/12, lecturer, University of Southampton
- 03/05–12/06, postdoctoral researcher, Katholieke Universiteit Leuven
- 02/05–03/05, visiting researcher, CNR, Bari and CINECA, Bologna, Italy
- 11/00–02/05, research assistant, Katholieke Universiteit Leuven

RESEARCH INTEREST

- structured low-rank approximation
- system identification in the behavioral setting
- data-driven control

TEACHING

- 07/2014, MTNS mini-course (together with M. Ishteva and K. Usevich)
- 03/2014, SOCN doctoral school course (18 hours of lectures and exercises)
- 05/2013, ELEC/VUB doctoral school invited lectures (8 hours of lectures and exercises)
- 2009–2012, Lego mindstorms laboratory
- 2007–2011, ELEC 3035: Control System Design

PROFESSIONAL ACTIVITIES

- 03/2015, *34th Benelux Meeting on Systems and Control*, organizing committee member
- 01/2015–12/2017, *SIAM Journal of Matrix Analysis and Applications*, associate editor
- 07/2014, MTNS, special sessions organizer (together with K. Usevich and M. Ishteva)
- 09/2013, DRWA, working group organizer (together with K. Usevich and M. Ishteva)
- 01/2007–present, *International Journal of Control*, associate editor
- 08/2006, *Workshop on TLS and EIV Modeling*, organizer (together with S. Van Huffel)

GRANTS

- 2018–2021 principal investigator, EOS project Structured low-rank matrix/tensor approximation (540 kEUR)
- 2017–2020 principal investigator, FWO project Volterra system identification (192 kEUR)
- 2015–2018 principal investigator, FWO project Decoupling multivariate polynomials (252 kEUR)
- 2011–2015 principal investigator, ERC starting grant Structured low-rank approximation (783 kEUR)

DISTINCTIONS

- 03/2012, 10-year research mandate by the VUB research council
- 08/2010, ERC starting grant
- 06/2008, Householder Prize honorable mention, *XVII Householder Symp.*, Zeuten, Germany
- 02/2005, summa cum laude with congratulations of the Board of Examiners

PHD STUDENT SUPERVISION

- 2015, S. Rhode, "Robust and regularized algorithms for vehicle tractive force prediction", KIT, Germany
- 2012, M. Przedwojski, "Synchronisation errors in large distributed systems", University of Southampton
- 2011, F. Le, "Modelling the response of a human arm to electrical simulation", University of Southampton

MOST IMPORTANT PUBLICATIONS

- I. Markovsky. “Structured low-rank approximation and its applications”. In: *Automatica* 44.4 (2008), pp. 891–909. (Citations: 71 in WoS, 167 in GS)
- I. Markovsky. “Recent progress on variable projection methods for structured low-rank approximation”. In: *Signal Processing* 96PB (2014), pp. 406–419. (Citations: 4 in WoS, 11 in GS)
- I. Markovsky and P. Rapisarda. “Data-driven simulation and control”. In: *Int. J. Contr.* 81.12 (2008), pp. 1946–1959. (Citations: 26 in WoS, 54 in GS)
- I. Markovsky et al. *Exact and Approximate Modeling of Linear Systems: A Behavioral Approach*. SIAM, 2006. (Citations: 106 in GS)
- I. Markovsky. *Low-Rank Approximation: Algorithms, Implementation, Applications*. Springer, 2018. (Citations: 189 in GS)