

# Ivan Markovsky's Curriculum Vitae



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## DEGREES

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- 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

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- 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

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- [structured low-rank approximation](#)
- system identification in the behavioral setting
- data-driven control

## TEACHING

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- 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

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- 03/2015, *34th Benelux Meeting on Systems and Control*, organizing committee member
- 01/2015–present, *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)
- 07/2013, *ROKS*, scientific committee member
- 01/2007–present, *International Journal of Control*, associate editor
- 08/2006, *Workshop on TLS and EIV Modeling*, organizer (together with S. Van Huffel)

## GRANTS

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- 10/2014 principal investigator, FWO (252 kEUR)
- 10/2010 principal investigator, ERC starting grant *Structured low-rank approximation* (783 kEUR)
- 10/2009 Co-investigator, *PINVIEW* (European collaborative project)

## DISTINCTIONS

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- 06/2008, Householder Prize honorable mention, *XVII Householder Symp.*, Zeuten, Germany
- 02/2005, summa cum laude with congratulations of the Board of Examiners
- 08/2004, Wolfram research award at the *COMPSTAT'04*, Prague, Czech Republic

## PHD STUDENT SUPERVISION

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- 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

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- I. Markovsky. "Structured low-rank approximation and its applications". In: *Automatica* 44.4 (2008), pp. 891–909. DOI: [10.1016/j.automatica.2007.09.011](https://doi.org/10.1016/j.automatica.2007.09.011). (Citations: 49 in WoS, 127 in GS)
- I. Markovsky. "Recent progress on variable projection methods for structured low-rank approximation". In: *Signal Processing* 96PB (2014), pp. 406–419. DOI: [10.1016/j.sigpro.2013.09.021](https://doi.org/10.1016/j.sigpro.2013.09.021). (Citations: 2 in WoS, 8 in GS)
- I. Markovsky and P. Rapisarda. "Data-driven simulation and control". In: *Int. J. Contr.* 81.12 (2008), pp. 1946–1959. DOI: [10.1080/00207170801942170](https://doi.org/10.1080/00207170801942170). (Citations: 19 in WoS, 48 in GS)
- I. Markovsky et al. *Exact and Approximate Modeling of Linear Systems: A Behavioral Approach*. SIAM, 2006. DOI: [10.1137/1.9780898718263](https://doi.org/10.1137/1.9780898718263). (Citations: 97 in GS)
- I. Markovsky. *Low Rank Approximation: Algorithms, Implementation, Applications*. Springer, 2012. DOI: [10.1007/978-1-4471-2227-2](https://doi.org/10.1007/978-1-4471-2227-2). (Citations: 126 in GS)