

CURRICULUM VITAE – KAMIL DEDECIUS

CONTACT INFORMATION

Kamil Dedecius (*1981)

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EDUCATION

2010 PhD (Engineering Informatics) – Czech Technical University in Prague. Thesis: Partial Forgetting in Bayesian Estimation. Advisor: Ivan Nagy.

2005 Masters degree (Ing.) – Czech Technical University in Prague. Thesis: Technical Specification for GNSS-Based System for Monitoring and Control of Mobile Objects in Airport Area. (in Czech). Advisor: Miroslav Svitek.

WORK EXPERIENCE

Since 2008 Research Associate, Institute of Information Theory and Automation, Academy of Sciences of the Czech Republic.

Since 2018 Lecturer, Faculty of Information Technology, Czech Technical University in Prague.

2007 – 2010: Teaching Assistant (Statistics), Institute of Technology and Business, Department of Applied Sciences.

RESEARCH PROJECTS

2017 – 2018 – Rationality and Deliberation, project GA ČR 16-09848S. Member of research team. Focused on collaborative Bayesian inference.

2014 – 2016 – Distributed Dynamic Estimation in Diffusion Networks. Postdoc research project GA ČR 14-06678P. Principal investigator. Focused on development of the basic Bayesian diffusion estimation theory.

2013 – 2016 – Probabilistic Distributed Industrial System Monitor. Project MŠMT 7D12004. Member of research team. Focused on hierarchical fault detection.

5 SELECTED PUBLICATIONS

- (1) K. Dedecius and P.M. Djurić, *Sequential estimation and diffusion of information over networks: A Bayesian approach with exponential family of distributions*. IEEE Trans. Signal Process., vol. 65, no. 7, pp. 1795–1809, 2017.
- (2) K. Dedecius and V. Sečkárová, *Factorized estimation of partially shared parameters in diffusion networks*. IEEE Trans. Signal Process., vol. 65, no. 19, pp. 5153–5163, 2017.

- (3) K. Dedecius, J. Reichl and P.M. Djurić, *Sequential estimation of mixtures in diffusion networks*, IEEE Signal Processing Letters, vol. 22, no. 2, pp. 197–201, 2015.
- (4) K. Dedecius, *Marginalized approximate filtering of state-space models*, Int. J. Adapt. Control Signal Process., vol. 32, no. 1, pp. 1–12, 2018.
- (5) K. Dedecius, *Adaptive kernels in approximate filtering of state-space models*, Int. J. Adapt. Control Signal Process., vol. 31, no. 6, pp. 938–952, 2017.
- (6) K. Dedecius, I. Nagy, and M. Kárný, *Parameter tracking with partial forgetting method*, Int. J. Adapt. Control Signal Process., vol. 26, no. 1, pp. 1–12, 2012.

Complete list of publications can be found on <http://www.utia.cas.cz/node/467/Dedecius/Kamil>.

TEACHING

Bayesian methods in machine learning Faculty of Information Technology, Czech Technical University in Prague. Since 2018.

Statistical analysis of time series Faculty of Information Technology, Czech Technical University in Prague. Since 2018.

Statistics Institute of Business and Technology in České Budějovice. 2008 – 2010.