CURRICULUM VITAE

Håkan Hjalmarsson

Born Nov 6, 1962. Division of Decision and Control Systems, KTH. **E-mail:** `hjalmars@kth.se`

SELECTED ACADEMIC DEGREES

- PhD in Engineering (Automatic Control) from Linköping University 1993
- Docent in Signal Processing, KTH, 1997

SELECTED ACADEMIC APPOINTMENTS

- 2018 – Director of Graduate Studies, EECS, KTH.
- February 2007 – 2017 Director of Graduate Studies, EES, KTH.
- March 2003 – Professor at the Division of Decision and Control Systems, KTH.
- 1999 – 2002 Head of the Automatic Control Group, Department of Signals, Sensors and Systems, KTH.
- March 1996 – March 1997 Acting Head of the Signal Processing Group, KTH.

AWARDS AND DISTINCTIONS

- **2013 IEEE Fellow for contributions to data-based controller design.**
- **2011 Co-recepient of the ERC-Advanced Grant LEARN.**
- **2017 Recepient of a Swedish Research Council Research Environment Grant.**
- 2001 The KTH Award for outstanding contribution to the undergraduate education program at the Royal Institute of Technology, Stockholm, Sweden.

PUBLICATION STATISTICS

- Google scholar page:

  `https://scholar.google.se/citations?hl=sv&user=BqaS_84AAAAJ`

- Data as of April 18, 2019: Total number of citations: 10.000. h-index: 38. Number of citations of five most cited papers: 2135, 770, 440, 433, 388.

KEY PUBLICATIONS 2005 –

[HH-1] H. Hjalmarsson. From experiment design to closed loop control. *Automatica*, 41(3):393–438, March 2005.

[HH-2] H. Hjalmarsson. System identification of complex and structured systems. *European Journal of Control*, 15(4):275–310, 2009. Plenary address. European Control Conference.

[HH-3] L. Gerencsér, H. Hjalmarsson, and J. Mårtensson. Identification of ARX systems with non-stationary inputs - asymptotic analysis with application to adaptive input design. *Automatica*, 45(3):623–633, March 2009.

[HH-4] C. Larsson, C.R. Rojas, X. Bombois, and H. Hjalmarsson. Experimental evaluation of model predictive control with excitation (MPC-X) on an industrial depropanizer. *Journal of Process Control*, 31:1–16, Jul 2015.

[HH-5] M. Abdalmoaty and H. Hjalmarsson. Linear prediction error methods for stochastic nonlinear models. *Automatica*, 105:49–63, July 2019. Preprint is available at http://www.diva-portal.org.

PLENARY TALKS

- 2018 IEEE 7th Data Driven Control and Learning Systems Conference (DDCLS'18)
- 2010 29th Benelux meeting on Systems and Control.
- 2009 European Control Conference.
- 2003 13th IFAC Symposium on System Identification.

SELECTED SOCIETY SERVICES

- *International Federation of Automatic Control (IFAC):* 2011-2018 Member of Technical Board, Coordinating Chair of Technical Area Signals and Systems, 2011-2008 Chair of Technical Committee MISP
- *Editorial work and International Program Committees:* 1996 – 2002 Associate Editor for Automatica, 2005 – 2007 Associate Editor for IEEE Transactions on Automatic Control, Guest editor for special issues in European Journal of Control and Control Engineering Practice, IPC committees: IFAC Symposium on System Identification (1999-), IEEE CDC, European Control Conference, and ALCOSP.
- *Conference organization:* 2018 General Chair, IFAC Symposium on System Identification, 2006 Program Chair, IFAC Symposium on System Identification
- *Awards committees:* 2016-2018 IEEE Control Systems Society Fellows Committee, 2017 IFAC World Congress Young Author Prize Committee, IEEE Signal Processing Society Fourier Award.
- *Grant proposal evaluations:* ERC, Swiss National Science Foundation, Flanders Research Foundation, norska vetenskapsrådet, svenska vetenskapsrådet.

CURRENT PROJECTS

- 2017-2022 NewLEADS - New Directions in Learning Dynamical Systems. PI. Research Environment with the Department of Information Technology, UU, as partner, Swedish Research Council, 24.000 KSEK (total).
- 2017-2022 AdBIOPRO - Centre for Advanced Bioproduction. CI. VINNOVA Competence Centre. Proj. 2016-05181. 4.500 KSEK (as CI).
- 2016-2019 System identification: Unleashing the algorithms. PI. Individual research grant. Swedish Research Council. Proj. 621-2015-05285. 4.492 KSEK.
- 2016-2019 SmartFD - Smart feed design for biopharmaceutical production. CI. VINNOVA. 3.000 KSEK (as CI).
- 2017-2019 OVAPPO - Online analys av variationer av hela produktionen av papper och kartong för processoptimering. CI. VINNOVA. Proj. 2017-02404. 100 KSEK.

SELECTED PAST PROJECTS

- 2011-2015 LEARN - Limitations, Estimation, Adaptivity, Reinforcement, Networks in System Identification. CI. ERC Advanced Grant, 15.000 KSEK (as CI).
- 2002-2019 Individual project grants + 1 framework grant. All as PI. Swedish Research Council, 26 MSEK.
- 2014-2018 HOPE - Hållbar optimieringsbaserad reglering. PI. Industrial partners: ABB and Billerud-Korsnäs. VINNOVA PIIA, 6MSEK.
- 2006-2019 ACCESS - Autonomic Complex Communication nEtworks, Signals and Systems. Swedish Research Council Linnaeus Grant. Co-founder.

CURRENT DEGREE and POSTDOC SUPERVISION

Mina Ferizbegovic (PhD student, WASP), Mohamed Abdalmoaty (PhD student), Dr Mingliang Wang (postdoc, PhD from City University of Hong Kong), Dr Diogo Rodrigues (postdoc, PhD from EPFL).

PAST DEGREE and POSTDOC SUPERVISION

- 12 PhDs (as PI or CI), 4 postdocs.