

## Undervisningsportfolio

### 1. Undervisnings-CV: Oversigt over undervisnings- og vejledningsopgaver med angivelse af fagområder, omfang, niveau (BA, kandidat, EVU, Ph.d) samt evt. censoropgaver.

Supervisor at Aalborg University:

- 5th to 10th semester, Department of Electronic Systems / Automation and Control, 2011-present.
- 1st to 3rd semester, Department of Electronic Systems and Department of Mathematical Sciences, 2014-present.
- PhD (6 students), Department of Electronic Systems / Automation and Control, 2009-present.
- Erasmus (European Region Action Scheme for the Mobility of University Students), Department of Electronic Systems / Automation and Control, 2015-present.
- 3rd semester, Department of Mathematical Sciences, 2004 and 2006.

Teaching at Aalborg University:

- Modelling of mechanical systems (7th semester), Department of Electronic Systems / Automation and Control, 2023-present.
- Matematisk modellering og simulering af teknologiske systemer II (3rd semester), Department of Electronic Systems / Automation and Control and Department of Mathematical Sciences, 2015-present.
- Robot Motion (7th semester), Department of Electronic Systems / Automation and Control, 2019-present.
- Advanced control (8th semester), Department of Electronic Systems / Automation and Control, 2023-present.
- Matrix Calculations: Theory and Numerical Methods (6th semester), Department of Electronic Systems / Automation and Control, 2012-present.
- Nonlinear Control Systems (9th semester), Department of Electronic Systems / Automation and Control, 2008-2021.
- Optimality and robustness (8th semester), Department of Electronic Systems / Automation and Control, 2012-2022.
- Systems of Systems/Complex Systems (9th semester), Department of Electronic Systems / Automation and Control, 2012-2015.
- Control and Optimization (PhD course), Department of Electronic Systems / Automation and Control, 2009, 2010, 2013, 2015, 2017.
- Distributed Optimization (PhD course), Department of Electronic Systems / Automation and Control, 2018.
- Linear Matrix Inequalities (PhD course), Department of Electronic Systems / Automation and Control, 2016, 2020.
- Optimal Control (PhD course), Department of Electronic Systems / Automation and Control, 2019, 2020, 2023.
- Advanced Nonlinear Control (PhD course), Department of Electronic Systems / Automation and Control, 2010, 2012, 2015, 2022.
- Geometric Linear Control Theory (PhD course), Department of Electronic Systems / Automation and Control, 2014, 2017, 2020, 2022.
- Short Course on Hybrid Systems (PhD course), Department of Electronic Systems / Automation and Control, 2013.
- Mathematical Control Theory (PhD course), Department of Electronic Systems / Automation and Control, 2011.
- Complex Systems (PhD course), Department of Electronic Systems / Automation and Control, 2009.
- Discrete Mathematics (2nd semester), Faculty of Technology and Science, 2007.
- Linear Algebra (5th semester), Department of Development and Planning, 2006.
- Calculus (1st semester), Faculty of Technology and Science, 2006.
- Mathematics, Brush-up course, Faculty of Technology and Science, 2005.
- Mathematics, Admission Course, Faculty of Technology and Science, 2003 and 2004.

Ass. Teaching at Aalborg University:

- Linear algebra (2nd semester), Faculty of Technology and Science, 2007.
- Elementary Partial Differential Equations (6th semester), Department of Mechanical Engineering, 2004.
- Elementary Differential Geometry (4th semester), Department of Mechanical Engineering, 2004.
- Mathematics, Admission Course, Faculty of Technology and Science, 1998, 1999, 2000, 2001 and 2002.

### 2. Studieadministration: Oversigt over studieadministrative opgaver, eksempelvis medlem af studienævn, studieleder, semesterkoordinator, fagkoordinator, akkreditering m.v.

2016-2021

Study coordinator (Fagkoordinator) for the master education at Department of Electronic Systems / Automation and Control

2020-present

PhD Board member, The Technical Doctoral School of IT and Design, AAU

### 3. Universitetspædagogiske kvalifikationsforløb: Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l.

2021

Research Management Course, Aalborg University.

1/2017

Campus-to-campus video conference course modules.

Workshop on how to use video conference systems in teaching.

11/2008-02/2010

University Pedagogy for Assistant Professors, Centre for University Teaching and Learning, Aalborg University.

04/2009 Communication in teaching.

A one day workshop at Aalborg University.

05/2009

ICT in teaching, supervision and learning.

A one day workshop at Aalborg University.

10/2009

Evaluation of teaching and assessment of learning.

A one day workshop at Aalborg University.

#### **4. Anden form for kvalificering: Konferencedeltagelse, debatindlæg, oplæg m.v. i relation til uddannelse, "Undervisningens dag", o.l.**

Teaching material:

- En kort introduktion til sandsynlighedregning. A lecture note on probability theory for use at admission Course.
- Projektforslag til SRP. A catalogue with project proposals for high school final study project (studieretningsprojekt).

#### **5. Undervisningsudviklingsforløb og undervisningsmateriale: Oversigt over medvirken til udvikling af nye moduler, undervisningsmateriale, uddannelser, e-learning, samarbejde med eksterne samarbejdspartnere o.l.**

2012

Completely revised the Study Curricula for Electronics and IT (at Aalborg University) to align math courses with the rest of the curriculum.

#### **6. Nominering til og/eller modtagelse af undervisningspriser.**

2013

"Teacher of the year 2013" at the Department of Electronic Systems.

#### **7. Evt. personlige refleksioner og initiativer: Personlige overvejelser knyttet til undervisning og vejledning, ønsker til og planer for pædagogisk videreudvikling, planer for opfølgning på undervisningsevalueringer m.v.**

#### **8. Andet.**