

## 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 (7nd 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 (7nd semester), Department of Electronic Systems / Automation and Control, 2019-present. • Advanced control (8nd semester), Department of Electronic Systems / Automation and Control, 2023-present. • Matrix Calculations: Theory and Numerical Methods (6nd semester), Department of Electronic Systems / Automation and Control, 2012-present. • Nonlinear Control Systems (9nd semester), Department of Electronic Systems / Automation and Control, 2008-2021. • Optimality and robustness (8nd semester), Department of Electronic Systems / Automation and Control, 2012-2022. • Systems of Systems/Complex Systems (9nd 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.**