

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 (3ed 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.