Teaching portfolio

1. Teaching CV

Students supervision: Supervised 60+ groups, from 1st to 10th semester Since 2016: F16: 1 x ROB1, 2 x ROB3, 1 x ROB5, 2 x CA1 S17: 1 x ROB6 F17: 2 x ROB3, 2 x ROB5 S18: 6 x ROB6 F18: 3 x ROB3, 2 x ROB5 S19: 1 x ROB8 F19: None (full time on projects) S20: None (full time on projects) F20: 1 x ROB1, 2 x EIT3 S21: 3 x ROB1, 1 x CA10, 1 x EMSD10, 1 x ROB10 F21: 2 x ROB1, 2 x ROB3 S22: 2 x ROB1, 1 x EIT3 F22: 3 x EIT S23: None (full time on projects) External censorship: F16: EIT1, TIOPTI Århus, M3NUM1 Århus, ROB1 F17: EIT1, TIOPTI Århus, M3NUM1 Århus S18: ROB6 F19: FKO6 Århus, M3NUM1 Århus Courses: F16: BIE I (EIT3/ITC3) S17: BIE II (EIT3/ITC3) F17: BIE I (EIT3/ITC3) S18: BIE II (EIT3/ITC3) F18: BIE I (EIT3/ITC3) S19: BIE II (EIT3/ITC3) F19: BIE I (EIT3/ITC3) S20: BIE II (EIT3/ITC3) F20: BIE I (EIT3/ITC3) S21: BIE II (EIT3/ITC3) F21: BIE I (EIT3/ITC3) S22: BIE II (EIT3/ITC3) F22: BIE I (EIT3/ITC3) S23: BIE II (EIT3/ITC3), Sensor and Systems (ES8) PhD supervision: Morten Bisgaard, 2005-2008 Line Endelt Ørsted, 2006-2008 Kumeresan A. Danapalasingam, 2007-2010 Mads Sølver Svendsen, 2010 Flemming Schøler, graduated 2009-2012 Karl Damkjær Hansen, graduated 2010-2014 Shibarchi Majumder, 2017-2019 Jacob Naundrup Pedersen, 2021-2024 Courses prior to 2016: Basic circuit theory, 1st - 4th semester, 16 times Complex functions, 3rd, 4th semester, 9 times Joint Time Frequency Analysis, 8th semester, 4 times PhD courses Wavelet analysis, 2 times Robotics, 2 times

2. Study administration

Head of Intelligent Autonomous Systems master program 2009-2011 Head of Control and Automation master program 2011-2015

3. University pedagogy qualifications

Completed assistant professor pedagogy course in 2004.

4. Other qualifications

Off-campus presentations of research topics: 30+ times Conference participation, including chairing sessions, panel debates etc: 40+ times Contributed to several reports in working groups related to public administration.

5. Teaching activity development and teaching materials

Drafting and revision of AAU study plans. Drafting and revision of study descriptions for web, brochures, etc

6. Teaching awards you may have received or been nominated for

Teacher of the Year 2006 under Health Technology. Teacher of the Year 2015 under Electronic and IT

7. Personal reflections and initiatives

I believe that standard university lecturing is not a very efficient form of teaching. I have still done this quite a bit because that is how the system is setup. But I have always tried to add a little variety to lecturing to make it more palatable for the students. For instance, I introduced early on a 2-minute break in the middle of a 45-minute lecture. This sounds almost dull, but the students love it (as is evident from the semester reviews). I also have in-class exercises to focus the attention on the topic. And I always make sure to have several jokes and laughs throughout a lecture to relieve the tension of continued concentration. Just recently, I introduced clicker-training (as used with dogs and other animals) into the exercises, to try something new. This is still ongoing as an experiment, but preliminary feedback seems to indicate that the students actually like to get a "click" when they do something right rather than my praise. My most rewarding contact with students has been in supervision, though. I have supervised student groups from 1st to 10th semester. I enjoy seeing the students dive into a subject and learn for themselves, with my only guiding them. Especially in the later semester, the students are adept learners and can often accomplish quite a bit in one semester. Since my skill set is primarily in robotics and unmanned aircraft, in particular, I often supervise the student groups interested in this topic. This allows me to provide research-based supervision to many student groups, which is especially enjoyable.

8. Any other information or comments

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