

## Undervisningsportfolio

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

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Emneområder: Internet technologies and design principles, content networking, service architectures, personalization; user profiles, digital identities, self-sovereign identities, digital identity wallets, identity management, privacy, trust, policies, access to protected resources (technologies and principles); IoT and cloud architectures, containers and orchestration, cloud native, microservices, design principles, IoT reference frameworks, IoT and cloud security

Kurser på kandidatniveau:

- Internet technologies and service architectures (5 ECTS)

oOffered on ICTE1 (mandatory), taught in English

oClasses of 5-35 students

oCourse responsible 2009 – now

oCourse development and planning, lectures, exercises and group work, assignments, examination

- Identity and access management (5 ECTS)

oOffered on ICTE2 (mandatory) and CYBER2 (currently elective, mandatory from 2024), taught in English

oFormerly called Application Security and Identity Management

oClasses of 5-45 students

oCourse responsible 2010 – now, co-taught with different colleagues, taught 50-60 % of the lectures

oCourse development and planning, lectures, exercises and group work, assignments, examination

- Security in IoT and cloud architectures (5 ECTS)

oOffered on CYBER1 (mandatory), taught in English

oClasses of 30-40 students

oCourse responsible 2022 – now, co-taught with a teaching assistant

oCourse development and planning, lectures, exercises and group work, assignments, examination

- Enterprise security and compliance (5 ECTS)

oOffered on ICTE3 (elective) and CYBER3 (elective), taught in English

oFormerly called Cyber security and trust

oClasses of 8-20 students

oTaught by an external lecturer, I act as the main contact person at CMI

oCourse development and planning, co-examination

Tidligere aktiviteter:

- 2008-2015: Underviste kurser på efteruddannelsen "Master in ICT".

Projektvejledning:

• MSc ICTE (2009 - now): A large number of semester and thesis projects, several academic internship projects

• MSc CYBER (2021 – now): A smaller, but growing number of semester and thesis projects

• BSc ITCOM (2018 – 2022): A few semester and thesis projects

• BSc SOFTWARE (2021-2022): 2 semester projects on SW1, 1 semester project on SW2

Censur (intern):

ITCOM, BSc: Network and application security, Communication and media technologies, Next generation networks, ~6-8 semester projects

ICTE, MSc: Enterprise security and compliance (Cyber security and trust), Content and media management, semester and internship projects

PhD vejledning:

Joseph Kwame Adjei, "A Case for Citizen Centric National Identity Management Systems: Crafting a Trusted National Identity Management Policy" (2010-2013)

Eric Kuada, "Social Network Approach to Provisioning and Management of Cloud Computing Services for Enterprises" (2011-2014)

Per Lynggaard, "Artificial intelligence and Internet of Things in a "smart home" context:

A Distributed System Architecture" (2011-2013)

Prashant Dhotre, "Managing and Visualising Personal Information Privacy using a Life Management Platform" (2014-2017).

Gitanjali Shinde, "Cluster framework for Internet of People, Things and Services (IoPTS)" (2014-2018).

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

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

- Extensive experience in planning of teaching activities (see Item 1) and programme development (ICTE, CYBER)

• Programme coordinator for the MSc programme on "Innovative Communication technologies and entrepreneurship" (ICTE).

- Semester coordinator for semesters ICTE1, ICTE2 and ICTE4.
- Accreditation 2014-2015: Significant workload on re-accreditation of the ICTE MSc programme (~150 hours)
- Editor of the ICTE curriculum
- Evaluation of applicants for the ICTE programme
- Member of the study board for Electronics and IT
- PR activities for CMI's teaching programmes, in particular ICTE (Open House, websites, presentations, webinars, printed material, posters, ...)
- 2018-2019: Major contributor to the pre-qualification application for the MSc programme in cyber security
- Former member of the department teaching committee and chairman of CMI's teaching committee
- 2021: Chairman of ES working group on revision of ICTE
- 2018 – now: Chairman of the education planning group for ICTE.

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

Oversigt over gennemførte universitetspædagogiske kursusforløb, PBL-kurser, workshops, udviklingsprojekter, kollegial supervision o.l.

Omfattende pædagogisk erfaring fra tidligere ansættelse som lektor på DTU 1999-2008, har deltaget i mange workshops på DTU Learning Lab.

Ansat direkte som lektor på AAU på grundlag af tidligere kvalifikationer.

Har gennemført og deltaget i AAU-kurser om Introduction to PBL, seminarer og workshops om PBL.

Løbende udvikling af undervisningsmetoder og arbejde med kvalitetssikring gennem studienævnet for "Elektronik og IT".

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

Konferencedeltagelse, debatindlæg, oplæg m.v. i relation til uddannelse, "Undervisningens dag", o.l.

Vejleder for "Adjunktpædagogikum" for 2 kollegaer (Emmanouil Vasilomanolakis, Cedomir Stefanovic).

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

Oversigt over medvirken til udvikling af nye moduler, undervisningsmateriale, uddannelser, e-learning, samarbejde med eksterne samarbejdspartnere o.l.

Developed new courses and course material as part of CMI's MSc and master programmes:

- Internet technologies and service architectures
- Application security and identity management
- Identity and access management

Developed and tested a special peer-reviewing format and procedure for semester project meetings held twice every semester.

Formulated guidelines for semester projects and academic internships.

Collaboration with several companies on student projects.

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

Skriv dit svar her...

### **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.**

Personlige overvejelser knyttet til undervisning og vejledning, ønsker til og planer for pædagogisk videreudvikling, planer for opfølgning på undervisningsevalueringer m.v.

Skriv dit svar her...

### **8. Andet.**

Skriv dit svar her...

Lang erfaring med undervisning fra DTU:

1980-1984, DTU, Electromagnetics Institute, PhD student and postdoc:

Developed teaching material and gave lectures in "Optical communication systems" and supervised a large number of MSc projects. As a postdoc I co-supervised a number of PhD projects.

1984-1995, TFL / Tele Danmark Research:

Employed at TFL Telecommunications Research Laboratory, continued the above-mentioned lecturing and supervision activities at DTU.

1999-2008, DTU, CTI/CICT, Associate professor:

Course responsible for MSc courses on "Future mobile communication systems and services" and "Multimedia and communication services".

Gave lectures in other courses at COM/DTU Photonics.

Supervised a large number of MSc projects and other student projects.

Supervisor for 5 PhD projects.

Member of department study boards at COM/DTU Photonics and IMM.

Chairman of the teaching committee at CTI/CICT.

Programme coordinator for MSc specialization in ICT