Teaching portfolio

1. Teaching CV

A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.

Subject areas: 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

Master level courses:
•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

Previous activities:
•2008-2015: Taught courses on the continuing education "Master in ICT".

Project supervision:
•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

Censorship (internal):
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 supervision:
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. Study administration

A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.

•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.
•2020 – now: Member of the education planning group for CYBER.

3. University pedagogy qualifications

A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.

Extensive pedagogical experience from previous employment as associate professor at DTU 1999-2008, attended many workshops at DTU Learning Lab.
Employed directly as Associate professor at AAU on the basis of past qualifications.
Attended AAU courses on Introduction to PBL, seminars and workshops on PBL.
Ongoing development of teaching methods and quality assurance within the study board of "Electronics and IT".

4. Other qualifications

Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.

Supervisor for "Adjunktpædagogikum" for 2 colleagues (Emmanouil Vasilomanolakis, Cedomir Stefanovic).

5. Teaching activity development and teaching materials

A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning, collaboration with external business partners, etc.

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. Teaching awards you may have received or been nominated for

Type your answer here...

7. Personal reflections and initiatives

Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.

Type your answer here...

8. Any other information or comments

Type your answer here...

Long experience in teaching from the Technical University of Denmark (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.