

ELECTRONIC SYSTEMS

KNOWLEDGE FOR THE WORLD



INTERNATIONAL TOP UNIVERSITY IN ENGINEERING¹

2nd highest ranked European University in the subject area Electrical & Electronics Engineering².



PAPERS IN THE BEST JOURNALS³

In 2018, 57% of our publications were in top 10% journals.

57%

IEEE FELLOW AND BELL LABS FELLOW

Prof. Popovski is an IEEE fellow, and Prof. Mogensen a Bell Labs fellow.

INVENTIONS AND IPR

54% of all inventions and 73% of all sold IPR at AAU stems from the Department⁴.

HOST AND ORGANISER OF HIGH VISIBILITY INTERNATIONAL CONFERENCES

- IEEE CTW 2019
- IEEE CCTA 2018
- IEEE MLSP 2018
- IEEE SmartGridComm 2018
- ECC 2016
- AES International Conference on Headphone Technology 2016

TOP 1% HIGHLY CITED RESEARCHERS⁵

MORE THAN 100 PHD GRADUATES SINCE 2014⁶

WORLD CLASS LABORATORIES

- Flexible antenna measurement facility
- Acoustic laboratories
- First modular laboratory for water infrastructure
- Drone research laboratory
- IoT laboratories



Secure Estimation and Control Using Recursion and Encryption (SECURE)

By combining cryptography and optimization, we develop IT-security and privacy-preserving solutions for critical infrastructures⁷.



100% student-built satellite on first ever cubesat launch in 2003

5 satellites launched. AAUSAT-6 under development⁸.



Transdisciplinary Research

that combines engineering and neuroscience to develop new hearing aids that minimize the user's listening effort based on instantaneous brain feedback⁹.

STRONG TIES TO INDUSTRY

Five industrial professors with 20% university employment boost our links to Bang & Olufsen, Oticon, Grundfos, GridData and Nokia Bell Labs.

COMPANY SPIN-OFFS FROM DEPARTMENT RESEARCH ACTIVITIES

- Steinwurf¹⁰
- Chocolate Cloud¹¹
- ENCIDA¹²
- Shape Acoustic¹³
- RESEIWE¹⁴
- GOMspace¹⁵
- SkyWatch¹⁶
- Space Inventor¹⁷
- Satlab Aps¹⁸
- Sensade¹⁹
- Media@hand²⁰
- Nordsens²¹

COLLABORATION²²

51 % of all publications are with international collaboration.
21 % of all publications are with academic-corporate collaboration.
51 new collaborative projects every year.
A total project revenue during the past five years of EUR 42 mio.



SOURCES

¹ US News, Best Global Universities 2018

² Shanghai Ranking, subject area Electrical & Electronics Engineering 2019

³ Publication set 2018. According to SNIP = source normalized impact per paper. Scival, date August 8 2019

⁴ Shanghai Ranking, subject area Electrical & Electronics Engineering 2019

⁵ 2014-2018: 215 inventions reported, and 182 IPR sold.

⁶ Web of Science, hcr.clarivate.com

⁷ vbn.aau.dk, August 12 2019. 114 dissertations 2014-2018.

⁸ strategi.aau.dk/Forskning/TV%3A6%rvidenskabelige+forskningsprojekter/SECURE/

⁹ space.aau.dk

¹⁰ es.aau.dk/news/show-news/dff-bevilling-til-projektet--effortless-hearing-in-noise-by-brain-feedback--cid407109

¹¹ steinwurf.com

¹² chocolate-cloud.cc

¹³ encida.dk

¹⁴ shapeacoustic.dk

¹⁵ reseiwe.com

¹⁶ gomspace.com

¹⁷ skywatch.com

¹⁸ space-inventor.com

¹⁹ satlab.com

²⁰ sensade.com

²¹ mediathand.com

²² nordsense.com

²² Publications set 2018. Scival, date August 8 2019.