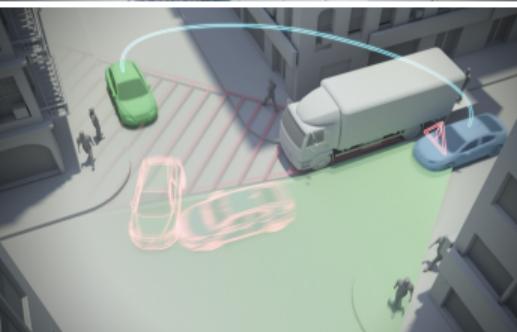


Master's Programme in Information and Communication Technology



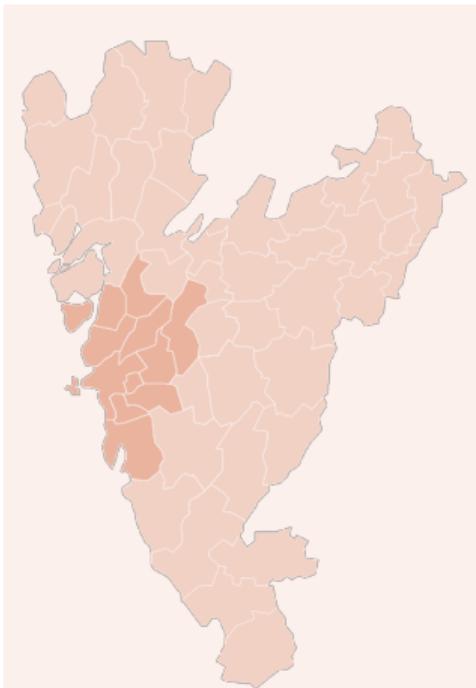
Enabling the interconnected world



Information at the heart of the modern society

- We prepare you for an advanced engineering career in the field of information science
- You will acquire both solid analytical skills and applied knowledge

The ICT sector in the Gothenburg region at a glance¹



- Dynamic and rapidly evolving
- Gothenburg's fastest growing sector
- Leading large companies and fast-growing startups
- World-class ecosystem
- Fierce competition for engineers, with demand vastly exceeding supply

¹Source: Gothenburg Business Region

ICT sector in Chalmers Master Programs

artificial intelligence



digitalization



augmented reality



cyber security



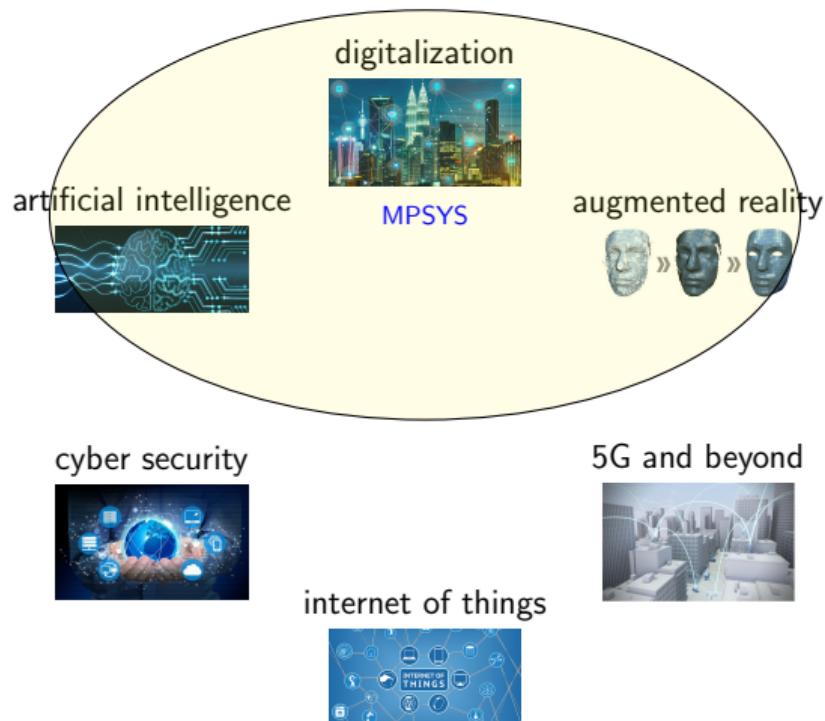
5G and beyond



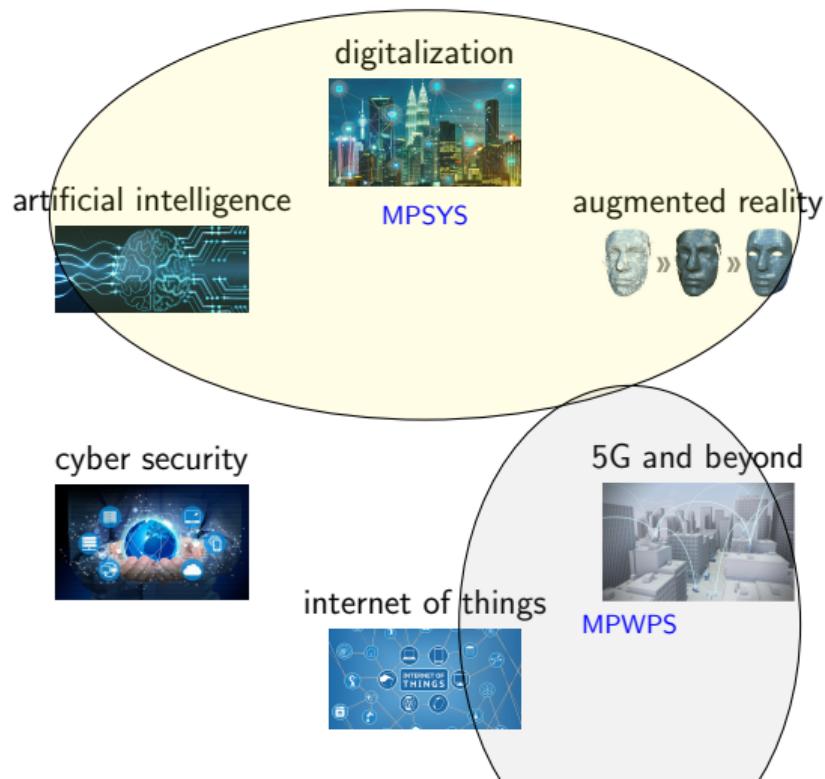
internet of things



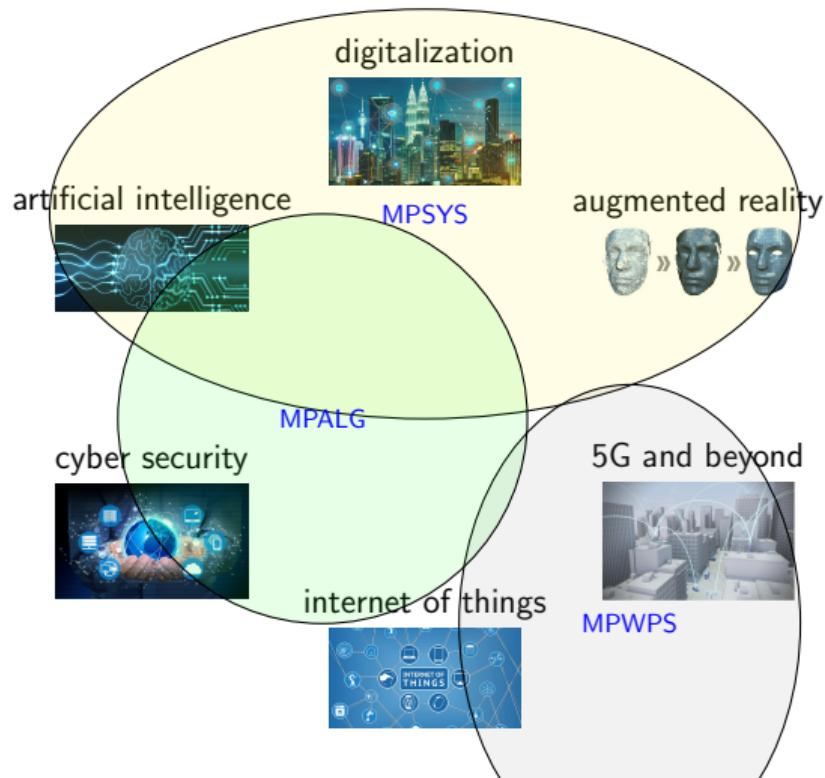
ICT sector in Chalmers Master Programs



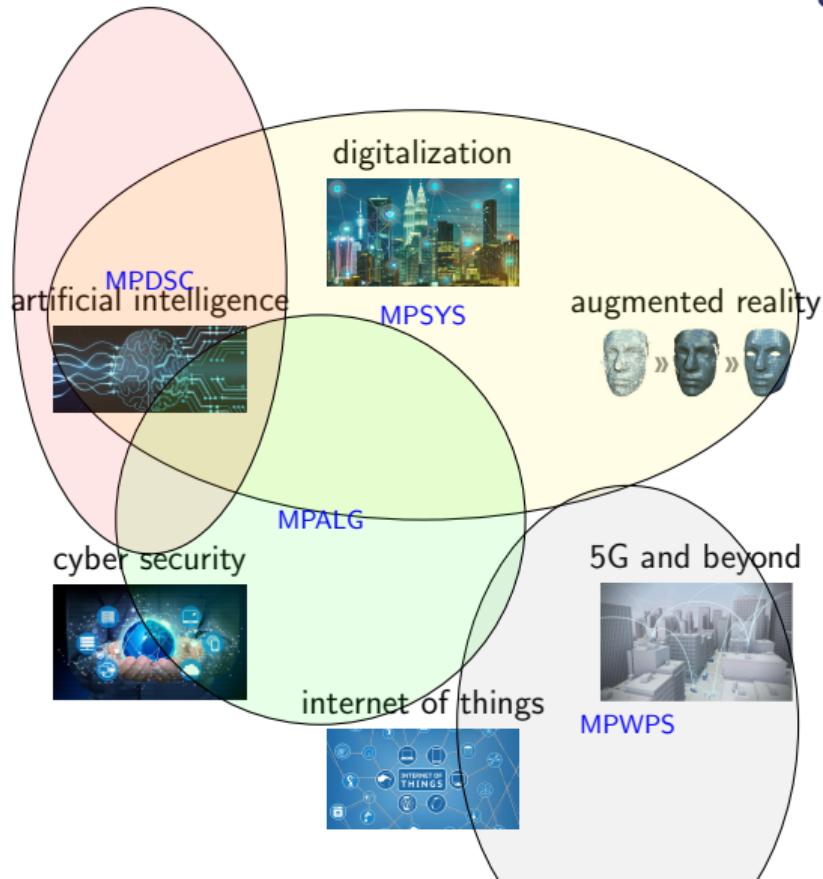
ICT sector in Chalmers Master Programs



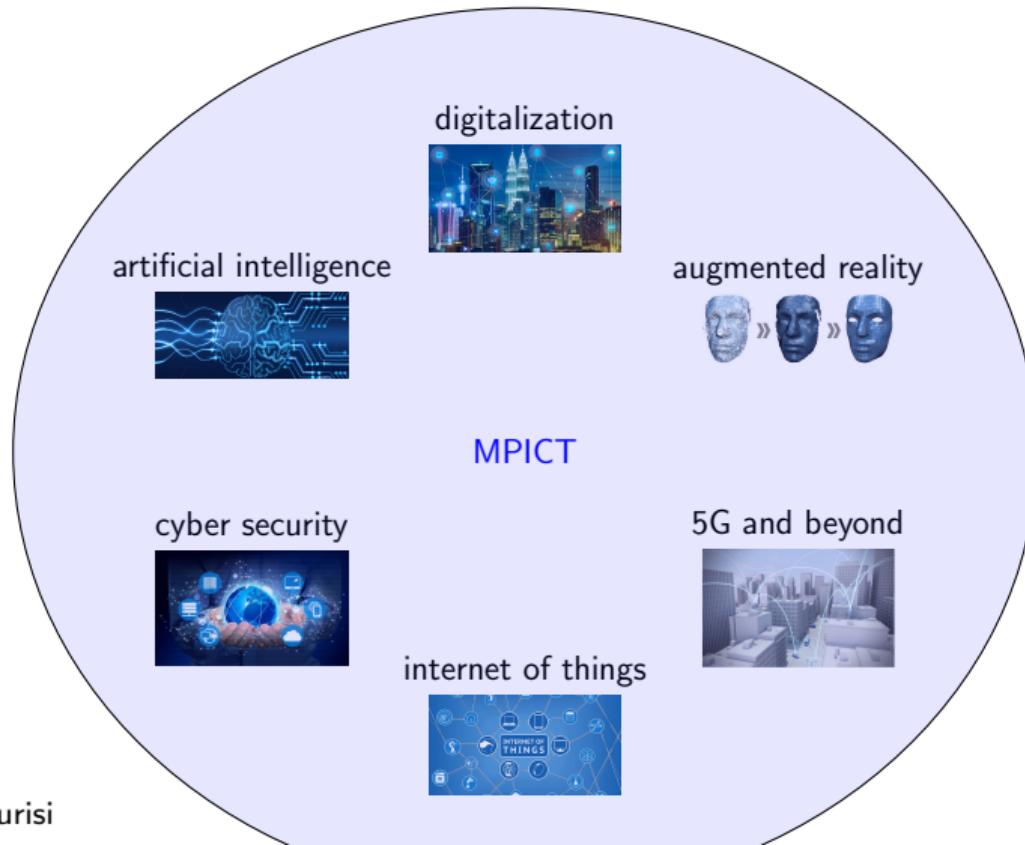
ICT sector in Chalmers Master Programs



ICT sector in Chalmers Master Programs

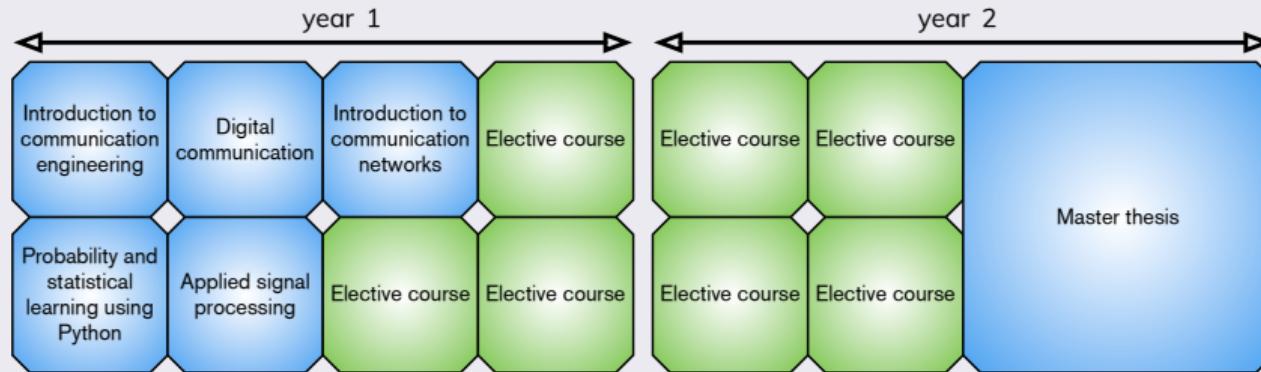


ICT sector in Chalmers Master Programs



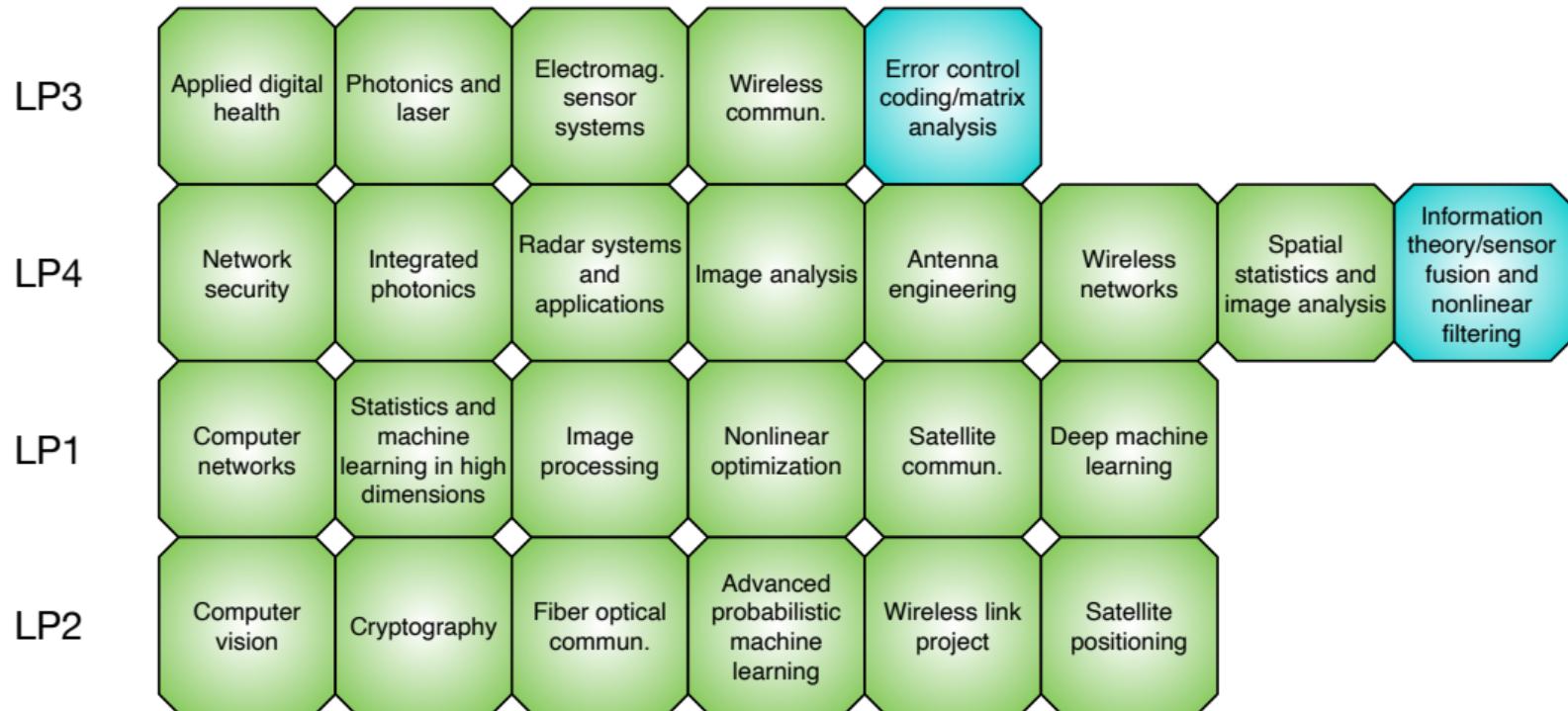
Master Program in Information and Communication Technology

Five core courses to learn about ICT current challenges



A broad selection of **elective courses** to learn more about your favorite area

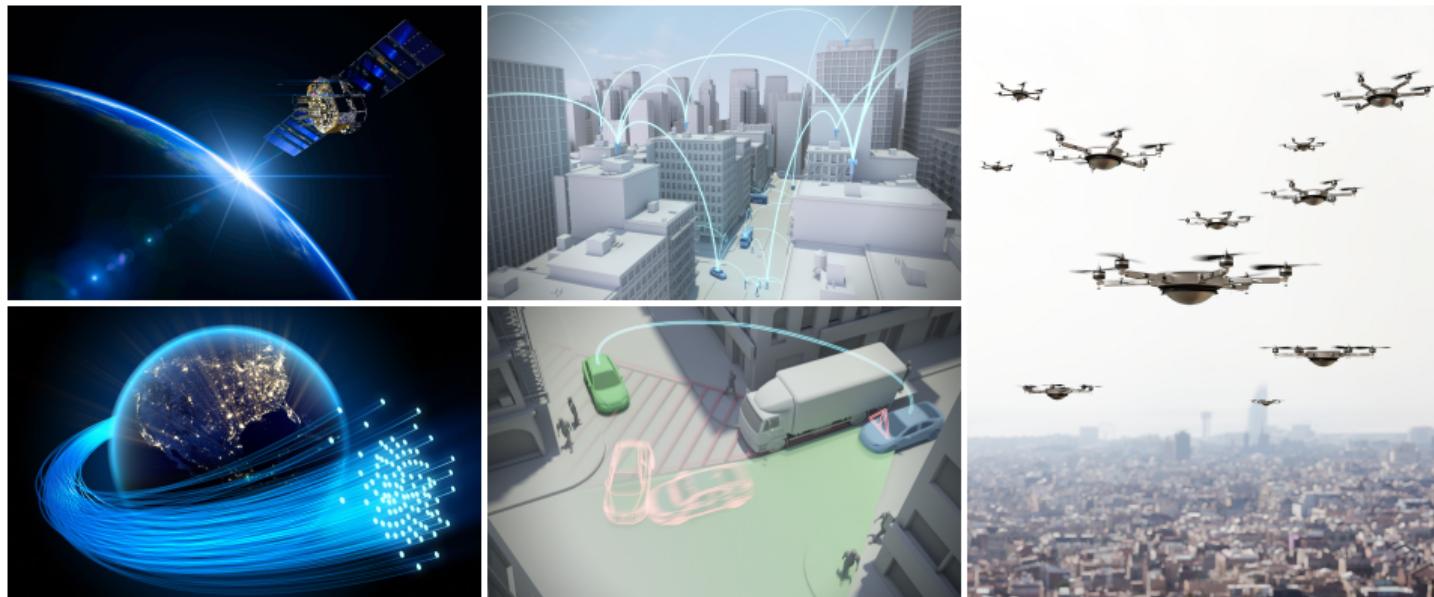
27 compulsory elective courses (and many more elective courses)



Three main tracks to simplify your selection

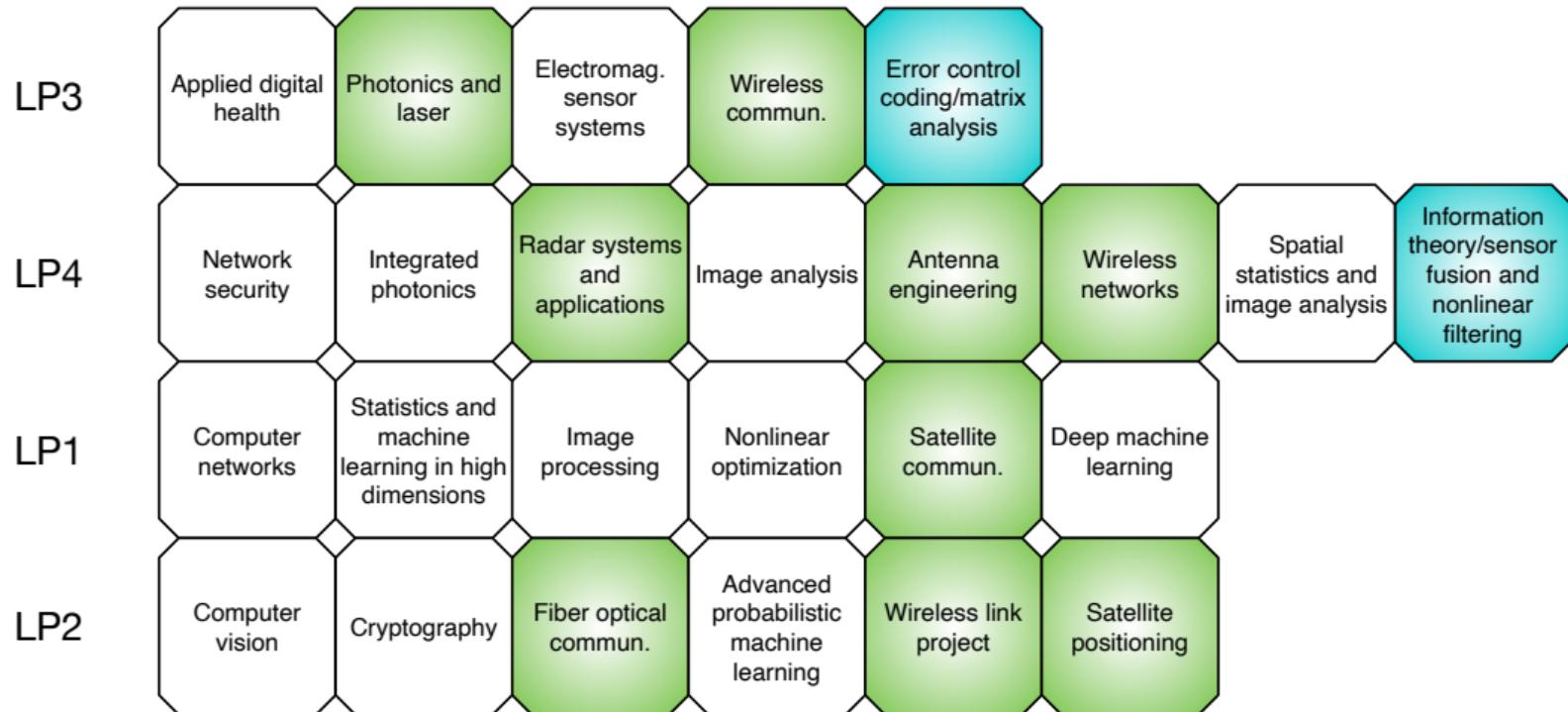
- Digital communication systems
- Intelligent information processing
- Cognitive and autonomous networks

Digital communication systems

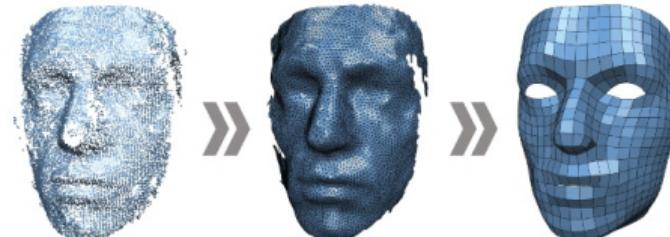


Theoretic, algorithmic, and practical aspects of digital communication systems

Track: digital communication systems

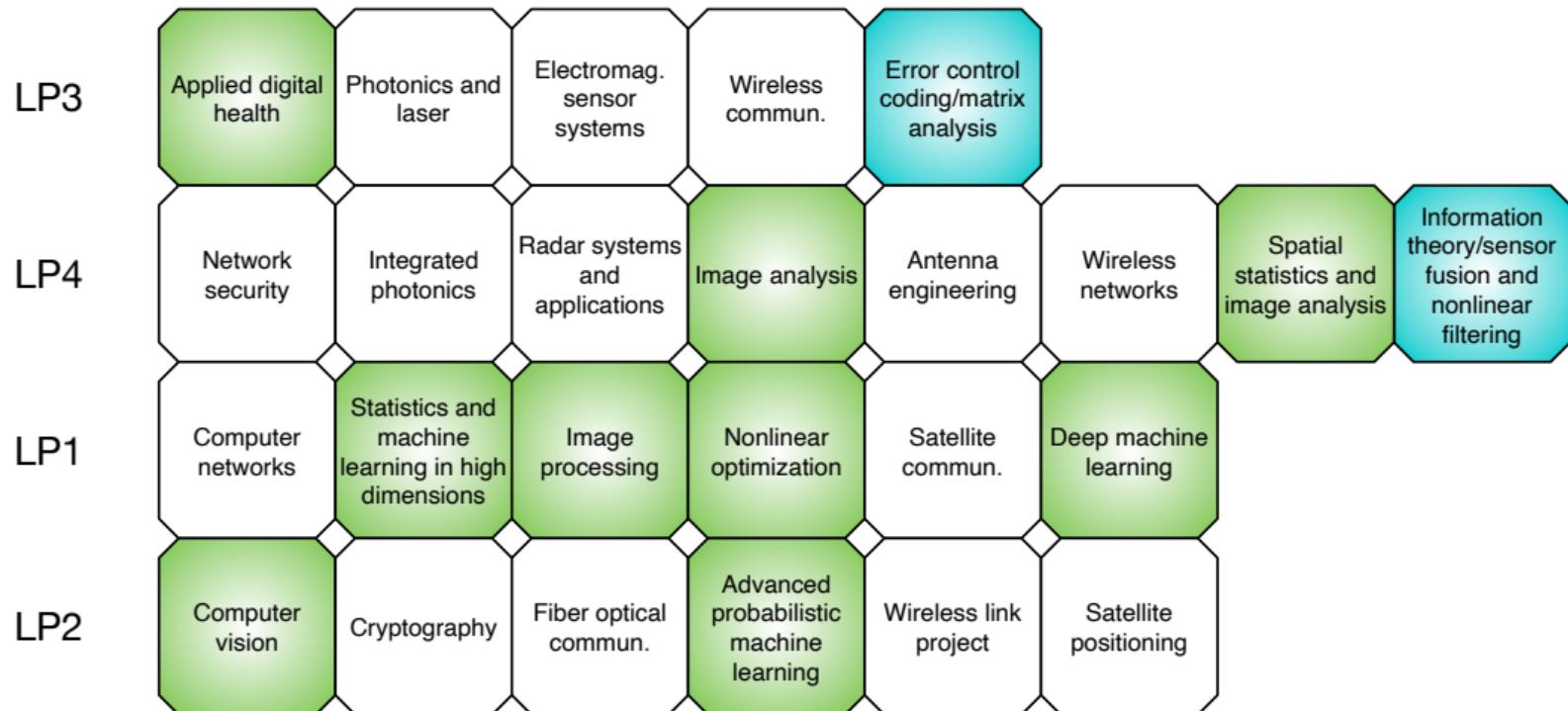


Intelligent information processing



At the intersection of signal processing, sensing, image processing, machine intelligence, and computer vision

Track: intelligent information processing

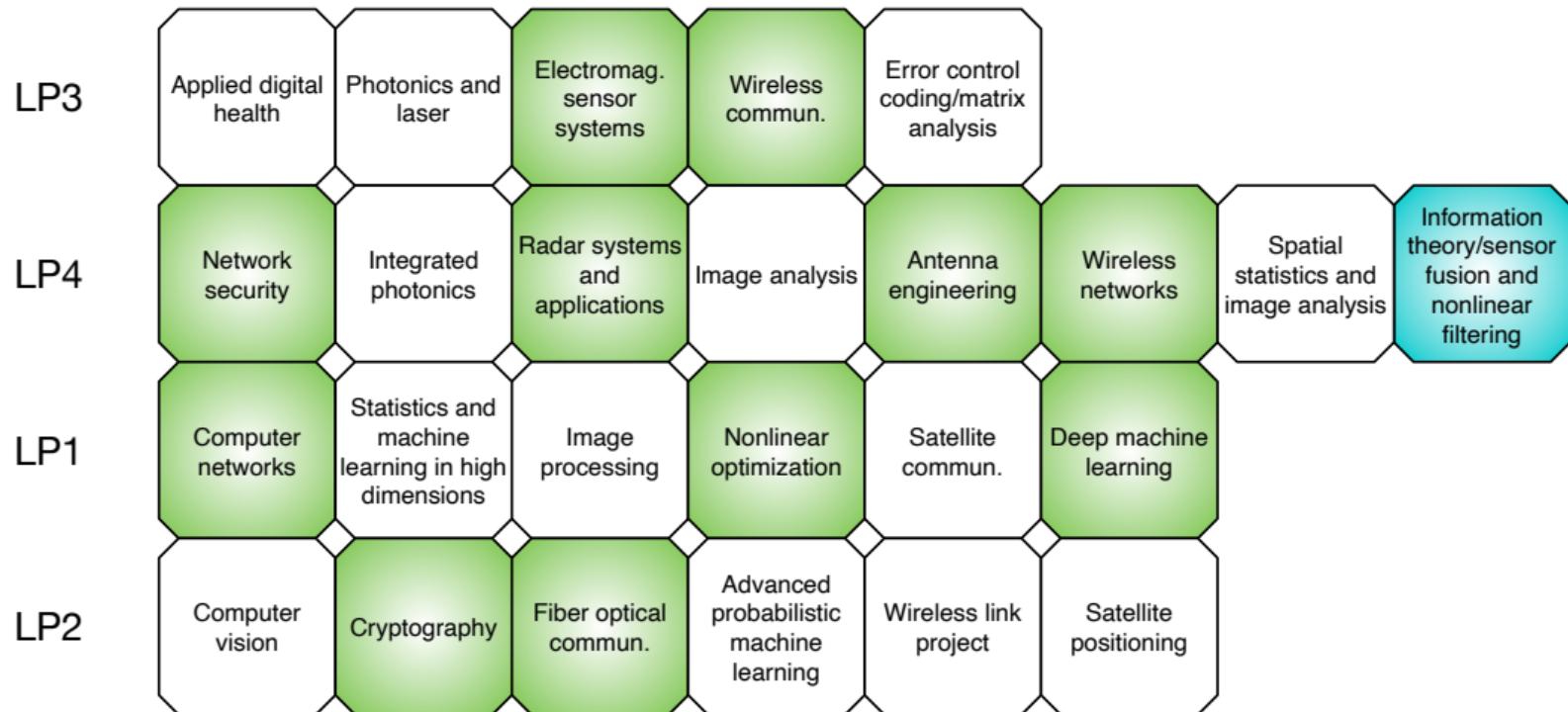


Cognitive autonomous networks



Network design and automation, security aspects

Track: cognitive autonomous networks



Studying MPICT

Methods

-  Building and refining problem-solving skills, critical thinking
-  Team work, presentation skills
-  Interaction with industry (guest lectures, visits, exciting master theses)
-  Different examination formats (homework assignments, projects, quizzes, written exams, oral exams)
-  Close contact with **world-class** academic and industrial research environments
-  One of the **largest research group** in Europe in the field of information and communication theory (many **PhD student positions** available every year!)

New initiatives within the MPICT program

Master thesis scholars at Ericsson

- Few top-performing MPICT students selected over the spring (first year), to conduct an exciting 30 credit master thesis at Ericsson Research in Gothenburg
- Topic of the theses defined on the basis of both Ericsson researchers' and the students' interest

The Startech Challenge (SAP, Eurecom, EDHEC business school)

- European-wide ICT startup launcher simulator
- Learn fundamental of entrepreneurship and management

Career opportunities

We prepare you to work at the frontier of technology in the ICT area

Distributed data processing, machine intelligence, intelligent transportation, positioning sensing, and navigation, wireless and optical networks, internet of things, digital health, ...

Our former students in the Gothenburg area work at

Volvo, Zenseact, Ericsson, Saab group, Beyond Gravity, ABB, Magna, AstraZeneca, Södra, AI Sweden, Qualcomm, Nordic Semiconductor, ...

Prospective jobs

Research & development, management, consultancy, entrepreneurship, ...

A look into your future . . .

As a graduate of the MPICT program, you will . . .

. . . imagine, design, and build **exciting** and **disruptive digital technologies** that will
shape the future of our society



Chalmers is a world-leading university in the ICT area