

Möjlig handledning inom Informationsteknologi våren 2019

Johan Lilius (<https://research.it.abo.fi/people/jolilius>)

- Autonoma system (fartyg, bilar, ...)
- Mjukvara för en maritim omgivning
- Sensorteknologi
- E-health
- Trådlösa kommunikationstekniker
- Operativsystem

Ivan Porres (<https://research.it.abo.fi/people/iporres>)

- Model Driven Software Development
- Software Process Improvement
- Test-Driven development
- A comparison of the ROSS and MOOS-IvP frameworks for autonomous systems

Jan Westerholm (<https://research.it.abo.fi/people/jawester>)

- Datorgrafik
- GPU-programmering
- Parallel programmering
- Kodoptimering

Mats Aspнас (<http://users.abo.fi/Mats.Aspnas/>)

- Parallell programmering
- Kodoptimering
- Tillämpningar av parallell programmering

Sepinoud Azimi (<https://research.it.abo.fi/people/sazimi>)

- Quantitative model refinement
- Computational processes in living cells
- Deep learning
- Data Science

Jerker Björkqvist (<http://users.abo.fi/jbjorkqv/>)

- Autonoma system (fartyg, bilar, ...)
- Mjukvara för en maritim omgivning
- Sensorteknologi
- Data-analys, big data
- Time series analysis
- Trådlösa kommunikationstekniker
- Operativsystem
- Signalprocessering
- Maskindiagnostik
- Software defined radio (applications in DVB-T/T2)

Eugen Ceizler (<https://research.it.abo.fi/people/eczeizle/>)
Mathematical modelling
Computational Systems Biology
DNA Algorithmic Self-Assembly
Computational Complexity
Quantitative model refinement
Controlling directed protein interaction networks in cancer

Sebastien Lafond (<http://users.abo.fi/Sebastien.Lafond/>)
Autonomous systems (ships, cars, ...)
Energy efficient many-core systems
Multi-media coding
Stream-based languages
Scheduling algorithms
Parallel video transcoding systems

Kristian Nybom (<https://research.it.abo.fi/people/knybom/>)
Trådlösa kommunikationstekniker
Agila mjukvaruutvecklingstekniker
Broadcasting-nätverk

Luigia Petre (<http://users.abo.fi/lpetre/>)
Formal methods
Refinement-based methods for software development
Time- and space-dependent computing
Integration of formal methods
Network modeling and analysis
Smart electrical grids
Network-on-chip architectures
Wireless sensor-actor networks
Multi-core systems
Non-functional properties
Energy-aware computation
Network availability

Petter Sandvik (<https://research.it.abo.fi/people/psandvik/>)
Distribuerade system
P2P-nätverk
Media streaming

Annamari Soini (<http://users.abo.fi/soini/>)
Programming
IoT
Autonomous vehicles
IT-undervisning
Könsroller inom IT
Sociala aspekter inom IT

Dragos Truscan (<https://research.it.abo.fi/people/dtruscan>)

Cloud computing and automatic resource scaling

Non-SQL Databases och Webbapplikationer

Automated White Box Testing

Parallel Testing with the Robot and TestNG frameworks

Overview of Test tools for Android applications

Security testing of web applications

Comparison of web / mobile automation frameworks.

Marina Waldén (<http://users.abo.fi/marina.walden/>)

Formella metoder

Integration med industritillämpningar

Den formella utvecklingsprocessen

Agila metoder

Grafiska gränssnitt till FM (UML, Simulink)

Distribuerade system

Systemspecifikationer

Autonomous vehicles