Möjlig handledning inom Informationsteknologi våren 2020

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 Aspnäs   (http://users.abo.fi/Mats.Aspnas/)
        Parallell programmering
        Kodoptimering
        Tillämpningar av parallell programmering

Sepinoud Azimi   (https://research.it.abo.fi/people/sazimi)
        Deep learning
        Data Science
        Computational modelling of biological and medical phenomena

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 (tillämpningar på dieselmotorer och hissar m.m.)
        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

Sebestien 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)
    Sensorteknologi
    Trådlösa kommunikationstekniker
    Agila mjukvaruutvecklingstekniker
    Broadcasting-nätverk

Luigia Petre   (http://users.abo.fi/lpetre/)
    Machine learning and data science
        Personalized medicine
        Gravitational waves
        Nuclear physics
    Formal methods
        Refinement-based methods for software development
        Integration of formal methods
    Network modeling and analysis
        Smart electrical grids
        Network-on-chip architectures
        Wireless sensor-actor networks
        Multi-core systems

Annamari Soini   (http://users.abo.fi/soini/)
    Programmering
    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)
        Autonomous vehicles
        Safe Reinforcement learnig