

MSC /BSC THESIS INSTRUCTION AND SUPERVISION (Timo O. Korhonen)

*Helsinki University of Technology TKK
/Aalto University (I: Instructor, S: Supervisor)*

1. Aari Aino: Improving a Traffic Generator and Analyzer Test Tool for Media Gateway (S), Themes = network technology
2. Aarnikoivu Samiseppo: Performance evaluation of DSP real-time operating systems in UMTS network (S), Themes = signal processing, network technology
3. Aaltonen Atte: Usability Development for Corporate Self-care System and Customer Relationship Management – Case study for a Teleoperator (S), Themes = Usability Design, Organizational Management
4. Abdel-rahman Muawieh: Network Management System Support for Traffic Balancing for WCDMA (S), Themes = network management
5. Ahopelto Jaakko: Web Bank's Usability (S), Themes = webbank, user-centered design, usability
6. Alho Ville-matti: IP-based video surveillance (S), Themes = network technology, video surveillance
7. Alonso Sergio Alvir: Performance of Decision Feedback Equalizer for Wideband TDMA (S), Themes = network technology
8. Bilal Osama: Interface and Modem Technology in PLC-networks, PhD study (S,I), Themes = network technology
9. Bourges Vincent: Using Bluetooth Technology for Crane Controls (S), Themes = network technology
10. Chomchuen Nitayaruk: 3G-GPRS GTP Protocol Robustness Testing (S), Themes = network technology
11. Efe Baris: DSP Echo Canceller for a Media Gateway (S), Themes = network technology
12. Ehoniemi Sami: Performance Of Multimedia Services In Mobile Networks (S), Themes = network service testing
13. Eisenmann Gerald: Simulation Model for an Optical, Exponentially Modulated Spread Spectrum System (I), Themes = signal processing, network technology

14. Elemo Henri: Defining Software Configuration Management for Product Development (S), Themes = Software Change and Configuration Management, Version Control System
15. Erke Tuomas: Failure Spread in Redundant UMTS Core Network (S), Themes = mobile network
16. Fernandez Anna: Meeting Users Requirements in Virtual Organizations (S,I), Themes = Virtual Organizations, Knowledge Management, Collaboration Tools, Metadata, Usability
17. Forsten Mikael: Optimizing Ethernet Access Network for Internet Protocol Multi-Service Architecture (I), Themes = network technology
18. Gao Peng: Rake Reception for WCDMA, Lich. Tech. study (S), Themes = mobile network
19. Gao Yangpo: Measuring and Characterizing properties of PLC-networks (S,I), Themes = power-line communications, network technology
20. Grüber Ralf: Planning and Programming Data Acquisition Equipment for a Wideband Mobile Channel Measurement System (I), Themes = signal processing, wideband channel modeling
21. Harju Marita: Benchmarking Process as a Part of Risk Identification (S), Themes = risk management, usability testing, mobile devices
22. Heino Aleksii: Battery Life Time Measurements Techniques and System for GPRS and WCDMA (S), Themes = mobile network
23. Helsten Tiina: Testing Audio-visual Quality of Smart phones (S), Themes = audio-visual quality, software testing, smart phones, subjective quality, objective quality, audio quality, image quality, video quality
24. Henttonen Teppo: Telecommunication Network Planning Guides for Paper and Pulp Industry Sites (S), Themes = industrial network planning
25. Horani Hafeth: Software Integration on Network Platform (S), Themes = software integration
26. Hyytiäinen Maria: User experience and development in network community (S,I), Themes = user experience in communities
27. Hätönen Jesse: A Case Study of Telecommunications in Supervisory Control and Data Acquisition (SCADA) Systems, (I), Themes = Control systems

28. Isotalo Niko: Proactive fault management in mobile core network (S), Themes = network fault management
29. Jauhiainen Juha-Pekka: Network service related studies (S), Themes = network services
30. Jokiniemi Joonas: Ontologies in Chinese Medicine (Ontologiat ja laskennalliset menetelmät perinteisessä kiinalaisessa lääketieteessä), (S,I), Themes = Health services
31. Jossas Juha: Managing organizational change in enterprise resource planning system implementation (S), Themes = organizational change management
32. Jääskeläinen Jukka: Performance Evaluation of Software ciphering in UMTS radio network controller (S), Themes = network security
33. Kariola Mikko: Defining the Horizontal Customer Interface of the DX 200 Platform (S), Themes = horizontal business models, production management, DX 200 development
34. Kiiskilä Mikko: Product Discovery Toolkit – Four Steps to Transform Business Ideas into Feasible Concepts, (S,I), Themes = Innovation management
35. Kiviniemi Kari: Quality, Usability and Agility in development of medical devices, (Lääkinnällisten laitteiden tuotekehityksen laatu, käytettävyyksivaatimukset ja ketteruus), (I), Themes = Usability and health technologies
36. Koivuniemi Kari: The Effect of Virtual Enterprises on Business-to-Business Integration (I,S), Themes = Virtual enterprise, business-to-business integration, intelligent routing solution
37. Kolm Tanja: Early Fault Finding in Mobile Media Gateway (S), Themes = fault management, telecommunication technology
38. Kuivalainen Mats: Interfacing product data management system (S), Themes = product data management, product data exchange
39. Kuusinen Anni: Human stereopsis, stereoacuity and web-based test for assessing stereo threshold (S), Themes = usability studies
40. Kuusinen Kati: Integrating Human-centered Design into Product Development Process (S), Themes = product development process, user centric design

41. Laine Janne: Evaluating The Business Value of Information Technology (I), Themes = evaluation and management of the value in ICT investments, business analysis
42. Lappalainen Markus: Touchscreen in a Safety-Critical Medical Device, (S), Themes = Usability design, health technologies
43. Liu Er: Capacity and MAC-layer Realizations for PLC-networking, PhD study (S,I), Themes = network technology
44. Makipezele Gibson, Simulation of Optical Networks, Lich Tech study (I,S), Themes = network technology
45. Mattila Henri: Increasing Web Site's Conversion Rate By Fixing Usability Problems (I,S), Themes = usability, e-business, e-commerce, user experience, Internet marketing, web analytics, web site optimization
46. Mikola Jyrki: New Business Models in Web 2.0 Environment (S,I), Themes = network technology
47. Nevalainen Jouni: Design of User Interface for Net Supported Educational Environment of Statistics (S), Themes = usability
48. Niklas Jonatan Wallenius: State-of-the-art and User Requirements of Blood Glucose Measurement: Devices, Software and Services (I), Themes = e-Health
49. Nordström Kari: Security in Application Integration (S), Themes = business-to-business integration, enterprise application Integration
50. Nykänen Mikko: Innovative Design of General Lighting LED Luminaries (I,S), Themes = product concept creation and verification, business value, ideation techniques, LED, PLC
51. Ore Ivan: Investigations on Indoor WLAN Handover Algorithms (S), Themes = signal processing, network technology
52. Orrainen Antti: Communications Design for Relay Elevators and Escalators in a Distributed Monitoring and Control System (S), Themes = network technology
53. Pahkala Severi: Media Galleries in Mobile Devices – Guidelines for Aiding Future Products Decisions (S), Themes = user centric design
54. Paichard Yoann: Modeling WCDMA Radio Resource Management using Measured Topology Maps (S), Themes = radio resource management

55. Pesonen Mikko: Efficiency of Regression Testing (S), Themes = software testing, network technology, media gateway
56. Pietarinen Lauri: Wireless LANs in Broadband Access (S), Themes = network technology
57. Pohja Leena: Distributed Licensing Framework For 3G Core Networks (S), Themes = network security
58. Punkari Paavo: Developing offshored incident management process (S), Themes = outsourcing, offshored incidence management
59. Qi Yulin: Indoor Network Planning for IEEE 802.11 Based WLANs (S), Themes = network technology
60. Rahikka Olli: Usability Evaluation in Mobile Operating Systems for Touchscreen Smartphones, (S), Themes = network technology
61. Rahman M. Abdel: Network Management System Support for Traffic balancing in WCDMA (S), Themes = network management
62. Raitakari Ilona: Unified Communications (UC); Converging ICT Infrastructures for Enterprise e-collaboration (S), Themes = unified communications, session initiation protocol, user centric design
63. Ran He: E-leadership Strategy in Virtual Organizations and Virtual Teams (I,S), Themes = virtual organization, leardership
64. Relas Asko: Developing Intranet Portals: A Usability Perspective (I), Themes = usability, user interfaces
65. Rong Guo: OFDM Techniques in MIMO Systems (I,S), Themes = signal processing, network technology
66. Saarenpää Jouni: E-learning course production process analysis (S), Themes = e-learning, user centric design
67. Sainio Jaska: Impact of Evolving 3GPP Specifications on WCDMA base transceiver station protocol testing (S), Themes = network technology
68. Salminen Juha: Feasibility of Quality of Service in GPRS Network (S), Themes = network technology
69. Salonen Antti: Video Broadcasting Using Digital Subscriber Line Technology (S), Themes = video transmission, network technology
70. Samdani Golam: Power-line Communications in Home Networking (S,I), Themes = power-line communications, network technology

71. Savolainen Ilmo: Benchmark-Testing of Network Management System (S), Themes = network management
72. Seikola Marko: The Scrum Product Backlog as a Tool for Steering the Product Development in a Large-Scale Organization, (S), Themes = Organizational/Project management
73. Sen Nie: Performance Tests for SCTP Stream Control Transmission (S), Themes = network technology, protocol study
74. Shuo Liu: Evaluation of Chinese Health Care System (S,I), Themes = Health care services
75. Shuang Gu: Page Load Performance Evaluation for Mobile Browser on a Cloud, (I,S), Themes = Usability design, cloud services
76. Siiki Sami: Studies in GPRS EMC Problems (S), Themes = network security, network technology
77. Smura Timo: Economic Feasibility Of Point-To-Multipoint Fixed Wireless Access Networks (S), Themes = economic modeling
78. Stjerna Jori: The Destination Control System in Japan And China (S), Themes = system economics, service feasibility, cultural service adaptation
79. Sällström Jan: Redundant corporate intranet realization (S), Themes = network technology
80. Sääntti:Petra: Developing Corporate Knowledge Management Through Social Media (S), Themes = organizational development, social media
81. Tarhuni Naser: Fiber-optical Code Division Multiple Access, Lich Tech study (I,S), Themes = network technology
82. Tarhuni Naser: Optical Networking by CDMA, PhD study (I,S), Themes = network technology
83. Timonen Jussi; Applying Security To User Plane Traffic In Mobile Communications Networks (S), Themes = network security
84. Triebel Guido: Data Processing and Analysis Software of a Wideband Mobile Channel Sounder (I), Themes = signal processing, wideband channel modeling
85. Törrönen Heikki: Investigations on Fiber Optic Cable cut-off Wavelength Measurements (S), Themes = signal processing, network technology

86. Utriainen Juha: Universal Terrestrial Radio Access Network Operation, (S,I) System Security (S), Themes = mobile network
87. Ursin Leo: Evaluating Middleware Options Supporting Distributed Systems, (S,I), Themes = Middleware development
88. Uusitalo Tuomas, Improving Portfolio Management with Agile Practices, (I,S), Themes = project management
89. Wallström Magnus: Automation of Mobile Radio Network Performance and Fault Management (S), Themes = mobile network
90. Valtanen Jukka: Transport Formats in UMTS Radio Network Controller's Software Implementation (S), Themes = mobile network
91. Vanipenta Sarala: Application of Self Organizing Map in Understanding Cultural Factors and Change, (I), Themes = cultural service adaptation
92. Valtonen Miia: Designing a self care application for subscriber services on converging networks (S), Themes = network service design, usability
93. Vartiainen Juha: Progressive ICT-Services on Trains (S,I), Themes = telecommunication service development, intelligent transport systems
94. Välimäki Emmi: Cultural Adaption of Social Media (Sosiaalisen median palveluadaptaatio – suunnittelu kulttuurien välillä), (S,I), Themes = cultural service adaptation
95. Winter Juha: Integrating Echo Cancellation Software with DSP Hardware for Mobile Switching Center (S), Themes = network technology
96. Väkiparta Iikka: Design of easy to use and safe multi-user web application (Helppokäyttöinen, tietoturvallinen monikäyttäjäjärjestelmä), CASE: Veturin Cup Finland Intranet (S), Themes = user centric design, network security
97. Xiao Li: Multi-Channel MAC for Power Line Communication Ad Hoc Networks (S), Themes = power-line communications, network technology
98. Xirui Wang: Service Localization of Ubiquitous Health Care in China (I), Themes = Cultural service adaptation
99. Xu Jing: Comparing GSM, UWB and DMT Techniques for RF-LANs and Next Generation Networks (S), Themes = network technology

100. Xueli Jin: Mobile emulator technology: S60 Platform Software Development Kit for Symbian OS (S), Themes = signal processing, network technology
101. Zhou Hui: Discrete Multitone Link Adaptation, Lich. Tech. study (S,I), Themes = signal processing, network technology
102. Öörni Risto: Economic feasibility of road and public transport ITS applications in Finnish conditions (S), Themes = economic feasibility, intelligent transport systems

8 BSC THESIS INSTRUCTION

1. Aaltonen Atte: Käyttäjäkeskeisten etäterveydenhuoltopalvelujen suunnittelu ikäihmisille (Design of Remote Health-care Services for Elderly)
2. Apajalahti Lauri: Käyttäjäkeskeisen metodiikan valinta eri sovellutuksille (Application Specific Selection of User Centric Design Methodology)
3. Arminen Lauri: Femto-cell tekniikka (Overview to Femtocell Techniques)
4. Kiiskilä Mikko: Yrityksen intranet työkalun käyttäjäkeskeinen tuotekehitys (User-centric Design for an Intranet-tool)
5. Kuikka Sanna: Virtuaaliorganisaation strategian käyttäjäkeskeinen suunnittelu (Design of Strategy for Virtual Organization using User-centric Approach)
6. Laaksonen Paavo: Design for all - konseptisuunnittelu (Applying User Centric Design Approach for Design for All)
7. Lappalainen Markus: Skenaario ja vuorovaikutuksen kuvaukset lääketieteellisten laitteiden kehityksessä (Usage of Scenarios and Interactions in Development of Medical Equipment)
8. Pulkkinen Ilari: Käytettävyydestutkimuksen yksiselitteisyys (Uniqueness of User Centric Design)
9. Rinne Henri: Sovellutuksen käytettävyyden arviointi ja parantaminen (Usability Evaluation)
10. Rinne Pauli: Verkkopalvelujen käyttöliittymien etusivut esteettömän suunnittelun näkökulmasta (Accessibility Design of First Page)
11. Rämänen Jussi: Anestesia-laitteen vaatimusten käsittely ja käytettävyydestutkimuksen tulosten siirtäminen tuotteeseen (Usability Design of Anesthesia Device)

12. Seikola Marko: Node Manager –käyttöliittymän testiautomaatio (Test automation of Node Manager)

13. Tulensalo Maria: Virtuaaliorganisaation laatujärjestelmän kehittäminen (Development of Quality System for Virtual Organization)