



CURRICULUM VITAE

1 PERSONAL DATA

Surname:	Korhonen
Given Names:	Timo Olavi
Date of Birth:	August 8, 1960
Nationality:	Finnish
Present Position:	Project Manager, Docent, Department of Social Research, University of Helsinki
Academic Degree:	D. Tech, TKK '99, Adj. Prof/Docent, TKK '05 MSc Eng, Tampere University of Technology '90 BSc Eng, Technical Institute of Turku '86
Homepage:	http://koti.mbnet.fi/tmokor/home/
Twitter:	Timo O. Korhonen@EU_Precious

2 MORE SIGNIFICANT POSTS IN BRIEF

Note: Listed posts include supervision/instructing of MSc and PhD students and teaching as detailed later in this CV.

1999(1.7)–2001(31.12) Associate Professor of Telecomm. (TKK)
Research in RF channel modeling algorithms and measurements in SYTE-project funded by TEKES. Project board member and group leader in Communications Laboratory.

2002(1.1)–2004(31.12) Associate Professor of Radio Comms. (TKK)
2005(1.1)–2005(31.12) Docent of Telecommunication Systems (TKK)
Leading power-line communication project: LED/PLC-Project, funded by Academy of Finland in Communications Lab. Research work in optical communications: OCDMA- project funded by Academy of Finland.

2006(1.1)–2006(31.7) Associate Professor of Radio Comms. (TKK)
2006(31.7) – 2013(31.7) Adj. prof of Telecommunication Systems (TKK/Aalto), Power-line- and optical communications (LED-PLC Project), Leading research work in user centric design, WomEqual-project, CHI-FIN UBI-SERV (User-centric Design of Ubiquitous Welfare and Safety Services and Supporting Technologies for China and Finland) 2009–2011, Aalto Health Factory development planning (2012–)
2014(1.3) Project manager, PRECIOUS (PREventive Care Infrastructure based On Ubiquitous Sensing), pan-European EU-project

3 SUPERVISION OF DOCTORAL THESIS

- Risto Ööri, Advances in Intelligent Transport Systems, about 80% completed
- Naser Tarhuni: Fiber-Optic Code Division Multiple Access: Multi-Class Optical Orthogonal Codes, Optical Power Control, and Polarization Encoding. Completed 2007
- Jianwei Wang: Studies in Cross-Layer Design, Peking University, Completed 2008
- Liu Er: Capacity and MAC-layer Realizations for PLC-networking, about 40% completed.
- Marita Seppänen, Argumentation in Pedagogy, about 60 % completed

4 PROJECTS

- ACCESS 1999-2000 (Architectures of Access Networks)
- SYTE 1999-2002 (System Technologies for Future Telecommunications)
- LED/PLC 2003-2006 (Modular LED-PLC Lighting System)
- WOMEQUAL 2006-2007 (Web-community for Women Equality)
- CHI-FIN UBI-SERV 2009-2011 (User-centric Design of Ubiquitous Welfare and Safety Services and Supporting Technologies for China and Finland)
- PRECIOUS 2013-2016 (PREventive Care Infrastructure based On Ubiquitous Sensing)

5 SIGNIFICANT TASKS OF SCIENTIFIC EXPERTISE

REVIEWER AND OPPONENT FOR PHD THESIS

2011 Jiehan Zhou: Pervasive Service Computing: Community Coordinated Multimedia, Context Awareness, and Service Composition

2005 Vinh V. Phan: Smart Packet Access and Call Admission Control for Efficient Resource Management in Advanced Wireless Networks, University of Oulu

2000 Haifeng Wang: Advanced Multiuser Receiver for CDMA Communications, Tampere University of Technology

EXPERT EVALUATOR FOR EU

-2006, 2008, 2012, 2013 (FP6 and FP7)

CONFERENCE SESSION CHAIRING AND COMPARABLE TASKS

-WPMC'00 Invited Mobile IP Panelist
 -ICC'01 **TPC vice chair**, session chair and session organizer
 -ICC'02 session chair (OFDM-technologies)
 -WPMC'02 Session organizing and chairing for two sessions
 -FWCW'02 **TPC chair** and session organizer
 -WPMC'04 session chair (CDMA-technologies)
 -PIMRC'06 session chair
 -ICC'06 Round Table Panelist: Challenging ahead in
 Wireless Sensor Networks
 -UBI-HEALTH'10 **TPC Chair**

SCIENTIFIC BOARD ACTIVITIES

2001 – Wireless Personal Communications (editorial board member)
 2002 – Swedish Research Council (reviewer)
 2005 – IEEE P1901 PLC Standardization Workgroup
 2005 – IEEE ComSoc Emerging Technical Committee
 Broadband Over Power Lines (<http://www.comsoc.org/bopl/>)
 2006 – International Journal of Communication System (editorial board member)

REVIEWER FOR SCIENTIFIC PUBLICATIONS

1999 – IEE Communications Proceedings
 2000 – IEEE Transactions on Communications
 2001 – Wireless Personal Communications
 2002 – IEE Electronics Letters
 2002 – IEEE Transactions on Wireless Communications
 2006 – International Journal of Communication Systems (Editorial board)
 2008 – IEEE Journal on Selected Areas in Communications

TECHNICAL PROGRAM COMMITTEE MEMBERSHIPS
 IN INTERNATIONAL CONFERENCES

GPC'11, ISCAS '00, FWCW'01,'02, ISPLC'05-'07, ICC'01-'07, Globecom
 '01, '02,'05-'09, WPMC '00,'01, '02 '05, '09; IWS'05, WCNC'05

ORGANIZATION DEVELOPMENT STUDY

2007 Member of TKK Dipoli International Peer Review committee
 (Committee report in Annex VII)

6 LECTURED COURSES

S-72.227 Digital Communication Systems
 S-72.244 Modulation and Coding Methods
 S-72.700 Code Division and Orthogonal Multiplexed Systems
 S-72.1130 Telecommunication Systems (earlier S-72.423)
 S-72 1140 Transmission Methods in Telecommunication Systems (earlier S-72.245)
 S-72.1510 Human Centric Telecommunications
 S-72.2510 User Centric Design of Telecommunication Services
 S-72.2530 Acceptability and Quality of Service (responsible teacher and participated to course design)
 S-72.3510 Product Development of Telecommunication Systems (earlier S-72.124)

INVITED LECTURING

- Diploma in Product Development: Quality in Product and Service Development (Tuotekehityksen laatu), 26.10.2012, Koulutuskeskus Dipoli
- Tuotekehitysasiantuntija yrityksille F.E.C: (Quality management in Product Development) Tuotekehitysprosessin laadunhallinta 5.3.2012, Aalto PRO, Seinäjoki, Koulutuskeskus Dipoli
- Jyväskylä University, Finland: Invited presentation about elderly health in China and in Finland, 2011
- Invited presentation was given at "Tieteenpäivät" (Science - days) - event concerning cultural aspects in realization of health services, 2011
- Dipoli Adult Education Centre: Quality Processes of Product Development, October, 2009, 2010, 2011
- Aalto University - Invited presentation to Naoki Murata, Executive Director, Japan Society for the Promotion of Science (JSPS), TKK 2009
- "Dimensions of User Centric Design" (invited speech), MIC-CSC '08 Conference, Amman, Jordan, 2008
- "Frontiers of Aalto University: Scientific Research, Teaching and Product Development in Multidisciplinary Framework", Visit of Vietnamese ICR delegation to Finland, 26 - 31 October, 2008
- "Workshop of Innovations in Product Development", Peking University (PKU), 2007. One-day workshop that was organized by PKU and TEKES. Planning and Presenter for the whole workshop.

- “Advanced Telecommunications for Wireless Systems”, TKK, 2007. A three-day workshop organized jointly by TKK and Peking University, China (PKU). Presenter for 1,5 day (OFDM).
- "Telecommunications Technology", Nokia Booster Training Program, Dipoli Education Center with Nokia Networks, several lectures in 2004–2005.
- "Optical Networking", AEL Ltd., several lectures in 2004–2005
- "Kiinteän televerkon kehittymisen suuntaviivoja" (Development Trends in Fixed Telecommunication Networks), Verkkopäivät, Finnet Focus 26.1.2005
- "ABC of Telecommunications Technology", Dipoli Education Center in cooperation with Finland Post Group, 16.11.2004
- "Telecommunication Systems: Terminals, Portals, and Transmission Technologies", Dipoli Education Center in cooperation with Finland Post Group, 16.11.2004
- "Industry–University Cooperation in Finland and Otaniemi Cluster", Lifelong Education Center Dipoli. Presentation for ITU MM 2003 Japan's Industry Delegation Visit in Dipoli, 7.10.2003.
- "Telecommunication Technology" in Nokia's Professional Purchaser – course Lifelong Education Center Dipoli, 25.10.2003.
- "4G Networks" in The Path to 4G Mobile, 22 – 24 October 2002, London. Organized by IIR Telecommunications & Technology, London (TPC member and lecturer)
- “Next Generation Networks” in MobiConnect 2002, 20.22.5.2002, The Radisson SAS Hesperia Hotel, Helsinki, Organized by IIR Finland Ltd.
- “Overview to 4G Development” in Tulevaisuuden Teletekniikka (Telecommunications of the Future), 13.3.2002, Hotel Kalastajatorppa, Helsinki, Organized by IIR Finland Ltd.
- “Migration Paths to 4G mobile” in The Path to 4G Mobile, 13–14.9.2001, The Strand InterContinental Hotel, Helsinki. Opening speech and session chairmanship. Organized by IIR Telecommunications & Technology, London

- “Evolving Internet Access” in Kehittyvät tietoliikenneverkot (Developing Telecommunication Networks), 29–30.8.2001 Marina Congress Center, Helsinki, Organized by kontakti.net
- Overall course planning and giving a lecture in Telecommunication Market Trends and Technologies, 29.11.2000–14.3.2001, Diana Auditorium, Helsinki, ArosMaizels Ltd. The course included the following lectures: 2G Technologies in 3G era, Media convergence, The I-Mode and next generation WAP technologies, New business models for 3G services, Evolving internet access (This lecture was given by the author), Mobile IP, Location tracking following WAP-forum recommendations, Location tracking application and market opportunities, Voice over IP, Home communications: The next technology revolution, Portal-services, WAP – technology and markets, New economy and e-commerce, Technology and market outlook for future networks.
- “Codes in CDMA and Spread Spectrum Systems” in CDMA/WCDMA Technologies, 23.–24.4 2000, Hotel Matinlahti, Espoo, Finland, Organized by Merito Forum International, Helsinki

7 MSC THESIS INSTRUCTION AND SUPERVISION

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 Aleks: 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, käytettävyyksvaatimukset ja ketteryys), (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, leadership
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. Shuong 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: Veture 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: Sovelluksen 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 laatu-järjestelmän kehittäminen (Development of Quality System for Virtual Organization)

LIST OF PUBLICATIONS

PERSONAL DATA

Surname: Korhonen
Given Names: Timo Olavi
Date of Birth: August 8, 1960
Nationality: Finnish
Present Position: Project Manager, Docent, Department of Social Research, University of Helsinki
Academic Degree: D. Tech, TKK '99, Adj. Prof/Docent, TKK '05
MSc Eng, Tampere University of Technology '90
BSc Eng, Technical Institute of Turku '86
Homepage: <http://koti.mbnet.fi/tmokor/home/>

PEER REVIEWED JOURNAL PAPERS

1. R. Öörni and T. Korhonen: eCall MSD transmission – Results From a Field Test in Finland, IET Intelligent Transport Systems, 2013
2. Korhonen, T.; Vaaramaki, T.; Riihimäki, V.; Salminen, R.; Karila, A.: Selecting telecommunications technologies for intelligent transport system services in Helsinki Municipality, IET intelligent transport systems, 2012. Vol. 6, nro 1, pp. 18–28.
3. X. Wang, and T. Korhonen, "Barriers of Implementing Applicable Remote Health Care System in China" in World Congress on Medical Physics and Biomedical Engineering, (Munich, Germany), IFMBE Proceedings, Springer, 2009, pp. 318–321.
4. V. Riihimäki, T. Väärämäki, J. Vartiainen and T. Korhonen: Techno-economical inspection of high-speed Internet connection for trains, IET Intelligent Transport Systems, p. 322–331, March 2008, IET Intelligent Transport Systems, p. 322–331, March 2008
5. T. Väärämäki, T. Korhonen, and E. Mutafungwa: Wireless telecommunications in railways – Flash-orthogonal frequency division modulation – a case study, Journal of Rail and Rapid Transit '07, pp. 122–129, 2008

6. Jianwei Wang, Timo Korhonen, Yuping Zhao: Cross Layer Optimization for Fairness Balancing Based on Adaptively Weighted Utility Functions in OFDMA System, *Int. Journal. of Comp., Information, and Systems Science, and Eng. ,* Number 4, Vol 1, 2007, p. 262–267.
7. Naser Tarhuni, Timo Korhonen, Edward Mutafungwa, and Mohammed S. Elmusrati, “Multi-Class Optical Orthogonal Codes for Multi-Service Optical CDMA Networks”, *IEEE/OSA J. Lightwave Technology*, Vol. 24, No. 2, February 2006.
8. Naser Tarhuni, M. Elmusrati, and T. Korhonen, “Multi-Class Optical-CDMA Network Using Optical Power Control,” *Progress in Electromagnetics Research PIER*, 64, page 279–292, 2006.
9. Naser G. Tarhuni and Timo O. Korhonen, Mohammed S. Elmusrati, and Edward Mutafungwa, “Power Control of optical CDMA Star Networks,” *Elsevier Optic Comm. Journal*, 2006. Available online at <http://authors.elsevier.com/sd/article/S0030401805010333>.
10. K. Kazaura, K. Omae, T. Suzuki, M. Matsumoto, E. Mutafungwa, T. O. Korhonen, T. Murakami, K. Takahashi, H. Matsumoto, K. Wakamori, Y. Arimoto: Enhancing performance of next generation FSO communication systems using soft computing-based predictions, *OSA Optics Express*, Vol. 14, Issue 12, June 2006, pp 4958–4968.
11. Naser Tarhuni, M. Elmusrati and T. Korhonen, “Polarized Optical Orthogonal Codes for Optical Code Division Multiple Access Systems”, *Progress in Electromagnetics Research PIER* 65, page 125–136, 2006.
12. J. Kivinen, T. Korhonen, P. Aikio, R. Gruber, P. Vainikainen, and S.-G. Häggman, “Wideband Radio Channel Measurements at 2 GHz,” *IEEE Transactions on Instrumentation and Measurement*. vol. 48, pp. 39–44, Feb., 1999
13. T. Korhonen and A. B. Sharma, “Noise performance of optical receivers: a comparison of directional coupler based and resistive-feedback front ends,” *Electronics Letters*, vol. 28, pp. 446–447, June, 1992.

PEER REVIEWED CONFERENCE PAPERS

1. R. Öörni, T. Korhonen, and E. Meilikhov: Interoperability of eCall and ERA-GLONASS in-vehicle emergency call systems, The 10th ITS European Congress | 16 – 19 June 2014, Helsinki, Finland
2. Li, Geng; Zhao, Yuping; Jiao, Bingli; Korhonen, Timo, Design of Easy Access Internet Browsing System for Elderly People Based on Android, HWTS Workshop in conjunction with GPC2011, Oulu, Finland, 11th May, 2011
3. T. Korhonen, X. Wang, and S. Liu, "Alert Calls in Remote Health: Cultural Adaptation and Usability Inspection for China" In: Proceedings of the International Workshop on Health and Well-being Technologies and Services for Elderly (HWTS 2011), 11 May, (Oulu, Finland), 2011.
4. Mutafungwa, Edward; Zheng, Zhong; Hämäläinen, Jyri; Husso, Mika; Korhonen, Timo, On the use of home node BS for emergency telemedicine applications in various indoor environments, International Journal of e-Health and Medical Communication, 2011. Vol. 2, nro 1, pp. 91–109
5. T. Korhonen, M. Pekkola and C. Karaiskos, "Social Media in Healthcare – User Research Findings and Site Benchmarking" In: Proceedings of the 2nd International ICST Conference on Wireless Mobile Communication and Healthcare (MOBIHEALTH 2011), 4–7 October, (Kos Island, Greece), 2011.
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