

Finnish-Russian University Cooperation in Telecommunications

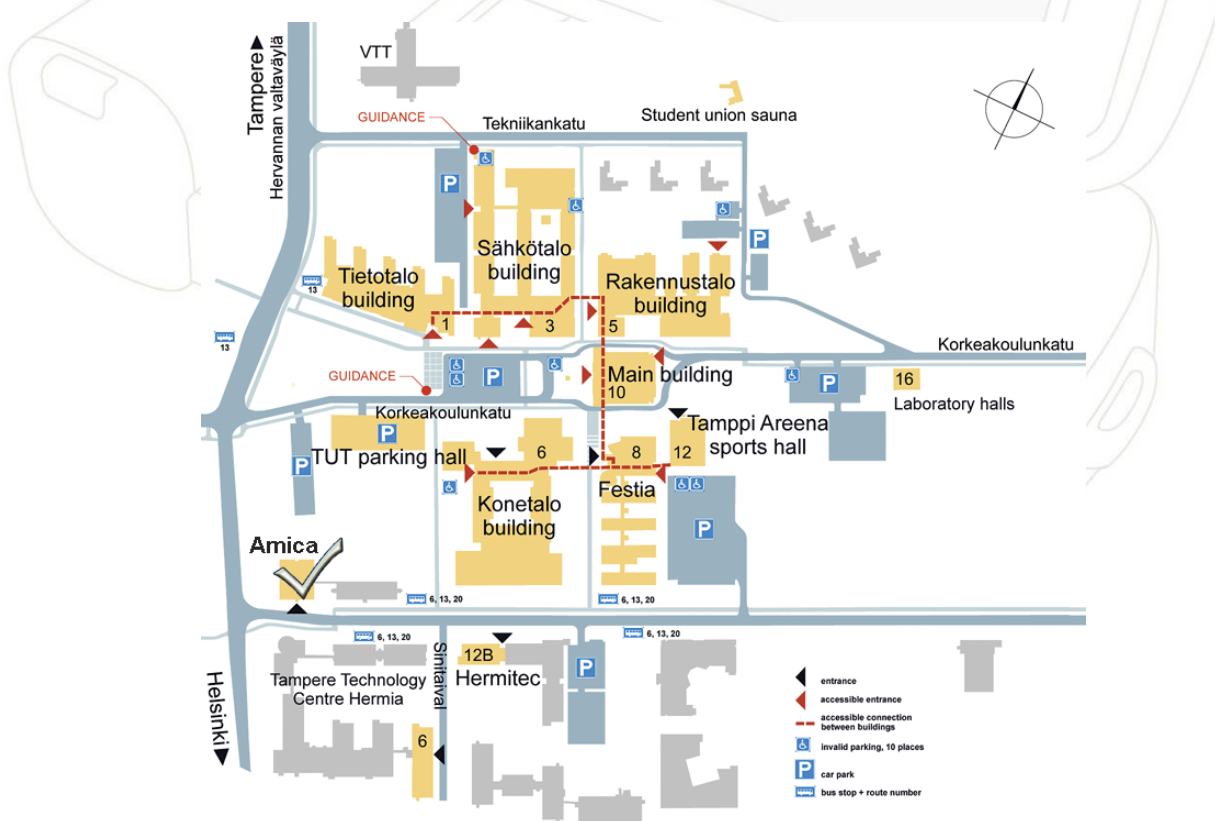
4th FRUCT program seminar on Oct 29-31 in Tampere, Finland

October 29 (Wednesday)

Tampere University of Technology, Korkeakoulunkatu 8

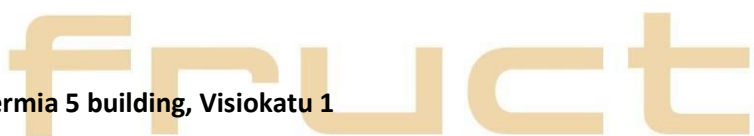
08:30	30m	Registration
Session: <u>Welcome and introduction to FRUCT and seminar participants</u> Room: Festia building, Auditorium Festia Pieni Sali 1		
Chairman: Sergey Balandin		
09:00	15m	Official opening of the seminar, Welcome from Tampere University of Technology (Ulla Ruotsalainen), Nokia (Sergey Balandin), Symbian (Lawrence Simpson)
09:15	30m	FRUCT program description and status , Sergey Balandin, Nokia Research Center, Finland
09:45	15m	Symbian University Engagement – an overview , Lawrence Simpson, Symbian Research Center, UK
10:00	15m	Presentation of St.-Petersburg State University of Aerospace Instrumentation , Ann Ukhanova, St.-Petersburg State University of Aerospace Instrumentation, Russia
10:15	15m	Presentation of Tampere University of Technology , Yevgeni Koucheryavy, Tampere University of Technology, Finland
10:30	15m	Coffee-break
10:45	15m	Cooperation of IT-park of PetrSU with Nokia Research Center and companies of Russia and Finland , Anton Shabaev, Petrozavodsk State University, Russia
11:00	15m	Presentation of Southern Federal University , Victor Kureychik, Southern Federal University, Russia
11:15	15m	Nizniy Novgorod State University NNSU and WirelessLab: mission and collaboration , Diana Ilina, Nizniy Novgorod State University, Russia
11:30	15m	Overview of MIT department research activities , Timo Hämäläinen, Jyväskylä University of Technology, Finland
11:45	15m	Presentation of Helsinki University of Technology , Olav Tirkkonen, Helsinki University of Technology, Finland
12:00	1h	Lunch (Restaurant ZIP, Tietotalo building)
Session: <u>Wireless networks, part I</u> Room: Festia building, Auditorium Festia Pieni Sali 1		
Chairman: Alexey Dudkov		
13:00	30m	Optimization of feedback use in wireless networks , Olav Tirkkonen, Helsinki University of Technology, Finland
13:30	15m	Optimizing differential CQI for MIMO with codebook based precoding , Helka-Liina Määttänen, Helsinki University of Technology, Finland
13:45	15m	Self-organized synchronization in wireless network , Jiang Yu, Helsinki University of Technology, Finland
14:00	15m	Modeling of turbo code performance , Sergio Lembo, Helsinki University of Technology, Finland

14:15	15m	Overview of networking research at HIIT , Andrei Gurtov, Helsinki Institute for Information Technology, Finland
14:30	15m	Coffee-break
Session: <u>Open source and MAEMO; Discussion</u> Room: Festia building, Auditorium Festia Pieni Sali 1		
		Chairman: Timofey Turenko
14:45	30m	Open source software in mobile devices , Timofey Turenko, Nokia Research Center, Finland
15:15	45m	Maemo and university co-operation going forward , Tero Kojo, Nokia Devices R&D
16:00	30m	Developing Maemo-based competencies at IT-park of PetrSU , Anton Shabaev, Petrozavodsk State University, Russia
16:30	15m	Open source implementation of ZigBee , Arina Rudakova, St.-Petersburg Electrotechnical University, Russia
16:45	15m	Approach to a problem of mesh-connectivity between XO laptops and Nokia MAEMO devices , Arina Rudakova, St.-Petersburg Electrotechnical University, Russia
17:00	15m	Maemo activity in SUAI , Vitaly Petrov, St.-Petersburg State University of Aerospace Instrumentation, Russia
17:15	15m	Demo: Open source implementation and performance measurements of wireless mesh network , Piotr Mitoraj, Tampere University of Technology, Finland
19:00	3h	Social event: Restaurant Amica Hermanni, Hermiankatu 1



October 30 (Thursday)

Nokia Research Center, Hermia 5 building, Visiokatu 1



08:45	15m	Day Agenda
Session: <u>Smart Spaces</u> Room: H5 Auditorium A156		
Chairman: Alexander Sayenko		
09:00	1h	Semantic computation and the future semantic Web , Ian Oliver, Nokia Research Center, Finland
10:00	20m	Technology platform for AutoICT services and applications , Timo Koski, University of Turku, Finland
10:20	20m	Building a model of SmartCity for Saint-Petersburg , Pavel Gonchukov, St.-Petersburg State University of Aerospace Instrumentation, Russia
10:40	20m	Coffee-break / Stand demo
11:00	1h	IPSO (IP for Smart Objects) , Jose Martinez Lastra, Tampere University of Technology, Finland
12:00	20m	Using of semantic friends for search in P2P network , Eugeny Linsky, St.-Petersburg State University of Aerospace Instrumentation, Russia
12:20	1h	Lunch
Session: <u>Mobile services and Symbian</u> Room: H5 Auditorium A156		
Chairman: Alexey Koren		
13:20	30m	Symbian OS as a research platform – present and future , Lawrence Simpson, Symbian Research Center, UK
13:50	20m	Web runtime and WRT widgets , Marko Lumivuori, Nokia
14:10	20m	Research activities on GNSS positioning at DCE group from TUT , Elena Simona Lohan, Tampere University of Technology, Finland
14:30	20m	Alternative solution of the mobile medical assistant system for people with diabetes , Valeriy Muzhikov, Pavlov Institute of Physiology of the Russian Academy of Sciences, Russia
14:50	20m	System analyzing pedestrian movement in city environment , Alexander Buntakov, St.-Petersburg State University of Aerospace Instrumentation, Russia
15:10	20m	Expert control system convenience UI , Diana Ilina, N.I. Lobachevsky State University of Nizhniy Novgorod, Russia
15:30	20m	Aggregation protocols evolution analysis , Diana Ilina, N.I. Lobachevsky State University of Nizhniy Novgorod, Russia
15:50	20m	Coffee-break / Stand demo
Session: <u>Video for mobile devices and DTV</u> Room: H5 Auditorium A156		
Chairman: Miska Hannuksela		
16:10	1h	Scalable video codecs , Miska Hannuksela, Tampere Nokia Research Center, Finland
17:10	20m	JPEG-LS standard and efficient power management for wireless video transmission , Ann Ukhanova, St.-Petersburg State University of Aerospace Instrumentation, Russia
17:30	20m	Effects of transmission errors on quality of audiovisual services delivered over DVB-H , Teppo Kurki, University of Turku, Finland

October 31 (Friday)

Tampere University of Technology, Korkeakoulunkatu 6



08:45	15m	Day Agenda	
Session: <u>Embedded networks</u>		Room: Konetalo building, Auditorium K1702	
		Chairman: Michel Gillet	
09:00	1h	Hardware/software co-simulation for conformance testing of embedded networks , Michel Gillet, Helsinki Nokia Research Center, Finland	
10:00	20m	Security in embedded networks , Elena Reshetova, Helsinki Nokia Research Center, Finland	
10:20	25m	Distributed interrupts mechanism implementation and investigation by modeling on SDL and SystemC , Irina Lavrovskaya, Alexey Rabin, St.-Petersburg State University of Aerospace Instrumentation	
10:45	20m	Different approaches for the SystemC modeling , Valentin Olenev, St.-Petersburg State University of Aerospace Instrumentation, Russia	
11:05	15m	Coffee-break	
Session: <u>Forum Nokia for universities</u>		Room: Konetalo building, Auditorium K1702	
		Chairman: Lawrence Simpson	
11:20	1h	Forum Nokia for universities – education and innovation to mobile platforms , Jarmo Rintamäki, Forum Nokia. University and developer training services , Tony Torp, Tampere Polytechnic University of Applied Sciences	
12:20	20m	Cooperation with developers and mission of Forum Nokia tech support , Mahbubur Rahman, Nokia	
12:40	1h	Lunch (Restaurant ZIP, Tietotalo building)	
13:40	1h	Introduction to Symbian OS and programming on S60 platform , Tony Torp, Tampere Polytechnic University of Applied Sciences, Finland	
Session: <u>Wireless networks, part II</u>		Session: <u>Symbian training</u>	
Room: Konetalo building, Auditorium K1702		Room: Tietotalo building, Room B205	
		Chairman: Yevgeni Koucheryav	
14:40	20m	Applicability of host identities in ambient networking environment , Seppo Heikkinen, Tampere University of Technology, Finland	
15:00	20m	Performance of host identity protocol on lightweight mobile devices , Andrey Khurri, Helsinki Institute for Information Technology, Finland	
15:20	15m	Demo: HIP-based P2PSIP , Joakim Koskela, Helsinki Institute for Information Technology, Finland	
15:35	20m	Features of the IEEE 802.16 NS-2 extension (WINSE) , Vitaliy Tykhomyrov, Jyväskylä University of Technology, Finland	
15:55	20m	IEEE 802.16 link adaptation mechanism , Oleksandr Puchko, Jyväskylä University of Technology, Finland	
16:15	15m	Coffee-break	
16:30	45m	Reliable packet transmission for sensor networks , Eugeny Linsky, St.-Petersburg State University of Aerospace Instrumentation, Russia	
Session: <u>Brainstorming on future of FRUCT program (round table)</u>		Symbian training (cont.) , Tony Torp, Tampere Polytechnic University of Applied Sciences, Finland	
Room: Konetalo building, Auditorium K1702		Chairman: Sergey Balandin	
18:00	10m	Official closing of the seminar , Sergey Balandin, Nokia Research Center, Finland	