

Program

The 11th Conference of Open Innovations Association FRUCT and 1st Regional Seminar on Mobile Healthcare, Early Diagnostics and Fitness

St-Petersburg, Russia 23-27 April 2012

























GAUDEAMUS IGITUR, JUVENES DUM SUMUS! POST JUCUNDAM JUVENTUTEM. POST MOLESTAM SENECTUTEM NOS HABEBIT HUMUS.

> UBI SUNT, QUI ANTE NOS IN MUNDO FUERE? VADITE AD SUPEROS. TRANSITE AD INFEROS. UBI JAM FUERE.

> VITA NOSTRA BREVIS EST. BREVI FINIETUR, VENIT MORS VELOCITER. RAPIT NOS ATROCITER, NEMINI PARCETUR.

VIVAT ACADEMIA, **VIVANT PROFESSORES!** VIVAT MEMBRUM QUODLIBET, VIVANT MEMBRA QUAELIBET! SEMPER SINT IN FLORE!

VIVANT OMNES VIRGINES FACILES. FORMOSAE! VIVANT ET MULIERES, TENERAE. AMABILES. BONAE. LABORIOSAE!

VIVAT ET RESPUBLICA. ET QUI ILLAM REGIT! VIVAT NOSTRA CIVITAS. MAECENATUM CARITAS. QUAE NOS HIC PROTEGIT

PEREAT TRISTITIA. PEREANT DOLORES, PEREAT DIABOLUS, QUIVIS ANTIBURSCHIUS. ATQUE IRRISORES!











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The program of 11th FRUCT conference in St-Petersburg

April 23-27, 2012 St-Petersburg, Russia

All events are free of charge, but all participants must be registered at www.fruct.org/conference11

On April 23-24: Saint-Petersburg State Electrotechnical University "LETI", Prof. Popova 5, Building 3 On April 25-27: Saint-Petersburg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67

DATE	ATE TIME PROGRAM					
23.04.12	09.00-18.00	QML for Mobile Development Training (in Russian): Getting started with QML,				
25.04.12	09.00-18.00	SPbETU "LETI", Prof. Popova 5, Building 3, room 3402				
24.04.12	09.00-18.00	QML for Mobile Development Training (in Russian): Graphics and Components,				
24.04.12	09.00-18.00	SPbETU "LETI", Prof. Popova	5, Building 3, room 3402			
		QML for Mobile Development Training (in	ENPI project meeting (only by invitation),			
	09.00-12.00	Russian): Extra components and capabilities,	SUAI, Bolshaya Morskaya 67, room 52-45			
		SUAI, Bolshaya Morskaya 67, room 53-03	•			
	12.00.11.00	Opening of 11 th FRUCT conference, SUAI, Bo				
	12.00-14.00	Welcome words and the main ple	•			
25.04.12	14.00.14.20	Keynote talk: Cross platform hybrid Inte				
	14.00-14.30	Coffee break (Main				
	14.30-16.10 16.10-16.40	Qt and cross platform solutions ses Coffee break (Main				
	16.40-18.30	FRUCT info session - Status, News and Web	-			
	18.30-21.00	Meeting of the FRUCT Advisor				
	18.30-21.00					
	09.00-11.00	Opening and Plenary session of the 1 st Region				
	11.00-11.30	Diagnostics and Fitness, SUAI, Bolshaya				
	11.00-11.30	Coffee break (Main	Modeling of Embedded Solutions session,			
	11.30-13.00	Mobile Healthcare, Early Diagnostics and Fitness session I, SUAI, Main conference-hall				
	13.00-14.00	Fitness session I, SUAI, Main conference-hall SUAI, Bolshaya Morskaya 67, room 53-03				
		Mobile Healthcare, Early Diagnostics and	Embedded Solutions session,			
26.04.12	14.00-15.30	Fitness session II, SUAI, Main conference-hall	SUAI, Bolshaya Morskaya 67, room 53-03			
	15.20-15.50	Coffee break (Main				
		Mobile Healthcare Working Group meeting,	,			
	15.50-18.00	SUAI, Main conference-hall	Network technologies session,			
	10.00.10.20	Preparation to the Demo Session and Social	SUAI, Bolshaya Morskaya 67, room 53-03			
	18.00-18.30	Event, SUAI, Main conference-hall				
	18.30-21.00	Demo Session and Social Event, SUAI, Bolshaya Morskaya 67, Main conference-ha				
	09.00-11.00	Future of Telecommunications and Services	Mobile Linux session,			
	09.00-11.00	session, SUAI, Main conference-hall	SUAI, Bolshaya Morskaya 67, room 53-03			
	11.00-11.30	Coffee break (Main	conference-hall)			
	11.30-13.00	Semantic Web and Knowledge mining	Qt and Mobile Linux WG meeting,			
		session, SUAI, Main conference-hall	SUAI, Bolshaya Morskaya 67, room 53-03			
	13.00-14.00	Lunch b				
27.04.12	14.00-15.40	Privacy and Security session,	Smart-M3 Platform session,			
		SUAI, Main conference-hall	SUAI, Bolshaya Morskaya 67, room 53-03			
	15.40-16.00	Coffee break (Main				
	16.00-17.30	Smart Spaces and IoT WG meeting,	Legal training-seminar: Patents and			
		SUAI, Main conference-hall	Copyright (in Russian), SUAI, Bolshaya			
			Morskaya 67, room 53-03			
	17.45-18.00	Official closing of 11 th FRUCT confer	ence, SUAI, Main conference-hall			







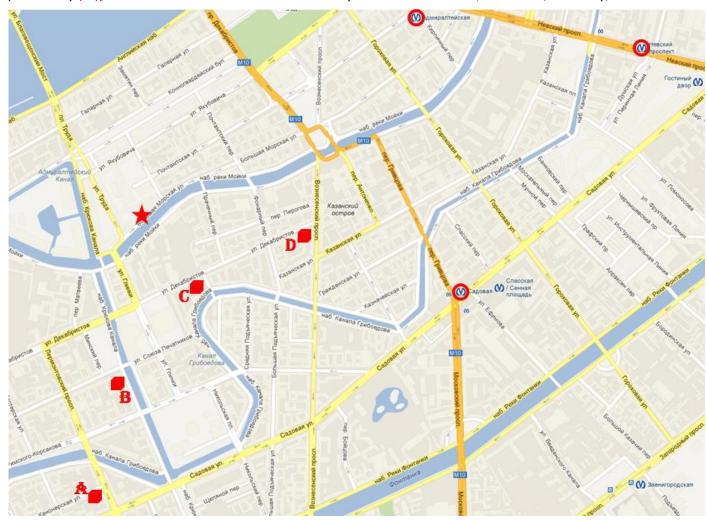






Practical Information

The FRUCT conference on April 25-27 will be held in the main building of SUAI University on Bolshaya Morskaya, 67 (marked by red star) in the center of St-Petersburg, not far from St. Isaak cathedral. You can get there from metro "Nevsky prospect" by trolleybus 5, 22 or bus 22, 3, 27, or by walking from metro "Admiralteystvo" or "Sadovaya" (marked by (M)). The recommended hotels are marked by red cubes: A-Azimut, B-Premier, C-History, D-"Year 1913".



Note: SUAI building has security control on the entrance. In order to get access to the conference you must register via the conference web www.fruct.org/conference11 (registration is free of charge). For your convenience, inside the building there are signs to help find conference rooms, places for coffee breaks, lunch place and other facilities.













Smart Conference User Client Installation Guide

Installation of SmartConference and SmartScribo clients for N900

- 1) Connect to Extras-Devel repository. To install Extras-Devel repository open applications manager and create catalog: catalogue name: Extras-Devel; web address: http://repository.maemo.org/extras-devel/; distribution: fremantle; components: free non-free.
- 2) Find the SmartConference package and install it.
- 3) At the start of application you need to set IP address, port, and SIB name provided by conference organizers.
- 4) After installing SmartConference client, download the latest SmartScribo deb-package from: http://sourceforge.net/projects/smartscribo/files/BlogClients/Maemo5/
- 5) Install the package and launch SmartScribo client. If some dependencies were not resolved, then install the additional required packages
- 6) The first launching creates the config file ~/.smartscribo/config. It can be edited in a dialog window with field for IP address of SIB.
- 7) Fill the correct value (provided by conference organizers) and press OK. These preferences can be changed anytime in Settings window from Menu->Settings->Change settings SIB.

To switch between SmartConference / SmartScribo: do *Switch on Scribo* in SmartConference client; in SmartScribo client choose *Switch on SCS*. Read more: https://sourceforge.net/projects/smartconference/files/Documentation. The SmartScribo user guidelines: http://gitorious.org/smart-scribo/smart-scribo/blobs/master/UserGuide.pdf.

Smart Conference Client Installation Guide for Symbian

Smart Conference Client for Symbian supports only Anna and Belle versions of the operating systems. To install the application:

- 1) Go to http://yar.fruct.org/projects/sc-clients/files and download the installation SIS file of the most recent version of the client suitable for your Symbian release.
- 2) Run the installation file and follow instructions of the wizard to complete the installation.

If you do not have Qt libraries installed on your device, they will be downloaded and installed automatically. If an error occurred during the installation, select *Smart installer* from the main menu. This will finish the installation properly.

Smart Conference Client Installation Guide for Android

- 1) Go to http://yar.fruct.org/projects/sc-clients/files and download the .apk file of the most recent version of the client.
- 2) Run the .apk file to install the application.
- 3) Run the Smart Conference Client from the application list.
- 4) If Ministro II is not installed on your system, you will be prompted to install it. Click **yes**. It will launch Google Play, on the Ministro II page. Download and install Ministro II.
- 5) After the Ministro II installation, you will get a warning that the Smart Conference client needs extra libraries to run. You will be prompted to download them. Click **yes**. It will start required libraries download.

After downloading of the required libraries the application is ready to use.

Downloading should not be interrupted, otherwise the application will not run. In this case go to Settings \rightarrow Applications \rightarrow Manage applications \rightarrow Ministro and click *Clear data*. Then restart the Smart Conference client, and try to download all required libraries again.

Configuration of Smart Conference Clients for Symbian and Android

After the start of the application the configuration page appears. In order to participate in the conference either as a presenter or a visitor you must specify the following information:

- 1) The IP address and port of the Smart Space provided by conference organizers.
- 2) The user's personal information and photo on the *Personal information editor* screen.
- 3) PDF presentation on the *Presentation information editor* screen (to participate as a presenter only).

When you have done the client configuration, press the *Connect* button to establish connection with the conference smart space, or the *Exit* button to close the client. In both cases, the settings will be saved.

To get the most recent information on the Smart Conference clients for Symbian and Android visit the following web page: http://yar.fruct.org/projects/sc-clients/wiki/User_manual.













The program of 11th FRUCT conference in St-Petersburg

April 23-27, 2012 St-Petersburg, Russia

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April 23 (Monday)

Saint-Petersburg State Electrotechnical University "LETI", Prof. Popova 5, Building 3

	Fraining: QML for Mobile Development: Getting started with QML Room: 3402 Trainer: Kirill Krinkin			
08:30	30m	Registration (room 3402)		
09:00	1.5h	Introduction into QtQuick and QML. Technology overview, Introduction to QML, architecture		
10:30	15m	Coffee break		
10:45	1.5h	Basic elements (Item, Rectangle, Image, Text, Component, MouseArea), Property Binding,		
		Component Layouts, Layouts and Anchors		
		Application as states and transitions. Animations		
12:15	45m	Lunch break		
13:00	1.5h	Using QtCreator and tools for QML Apps. Mastering with tools, project structure discussion.		
		Deploying QML application to device		
14:30	15m	Coffee break		
14:45	1.5h	QML and JS integration		
16:15	1h45m	Work on project		
18:00		Closing of Day 1		

April 24 (Tuesday)

Saint-Petersburg State Electrotechnical University "LETI", Prof. Popova 5, Building 3

Janne	CtCl3bt	ong State Electrotechnical Oniversity LETT , From Fopova 3, Bullating 3	
Trainir	Training: QML for Mobile Development: Graphics and Components		
Room:	Room: 3402 Trainer: Kirill Krinkin		
09:00	1.5h	Data models and views. Model View Controller approach, components with models, delegates.	
		XmlListModel	
10:30	15m	Coffee break	
10:45	1.5h	Page based applications. Application and windowing, Page and page stack navigation	
12:15	45m	Lunch break	
13:00	1.5h	Integration QML with C++	
14:30	15m	Coffee break	
14:45	1.5h	Networking. Getting access to the Internet, using WebView.	
16:15	1h45m	Work on project	
18:00		Closing of Day 2	













April 25 (Wednesday)

Saint-Petersburg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67

Trainir	Training: QML for Mobile Development: Extra components and capabilities			
Room:	53-03	Trainer: Kirill Krinkin		
09:00	1.5h	QML and Mobility. Multimedia.Playing sounds and video. Reading input from camera		
10:30	75m	Location components. Getting GEO position, using maps applets		
10:00	2h	Registration (SUAI, Bolshaya Morskaya 67, Main conference-hall)		
Session	n: Offic	cial opening of 11 th FRUCT conference		
		conference-hall Chairman: Sergey Balandin		
12:00		Opening of the 11 th FRUCT conference and welcome words from State University of Aerospace		
12.00	13111	Instrumentation and General Consulate of Finnish Republic in St-Petersburg		
12:15	15m	Skolkovo Technology Challenges, Albert Efimov, Skolkovo, Russia		
12:30	30m	EIT ICT Labs: Bringing ICT to Life in Europe, Marko Turpeinen, EIT ICT Labs Helsinki Node, Finland		
13:00	20m	Russian IT industry in 2011: new trends and opportunities, Valentin Makarov, Russoft, Russia		
13:20	40m	Keynote talk: Cross platform hybrid Internet applications, Knut Yrvin, Nokia, Norway		
14:00		Coffee-break (SUAI, Bolshaya Morskaya 67, Main conference-hall)		
		nd cross platform solutions		
	Room: Main conference-hall Chairman: Knut Yrvin			
14:30	20m	Preprocessor Based Approach for Cross-Platform Development with Qt Quick Components, Ilya		
		Paramonov, Andrew Vasilev, Denis Laure, Nikita Kozhemyakin, Yaroslavl State University, Russia		
14:50	20m	Firepoint: Application for Identified Fires Notification, Inessa Sofronova, Artem Timonin, Artem		
		Kalinin, Alexander Troshkov, Alexander Borodin, Kirill Kulakov, Petrozavodsk State University, Russia		
15:10	20m	Interactive Metro Map for Moscow and StPetersburg, Nikita Karpinsky, Evgeny Linsky, Alexander		
		Malakhov, State University of Aerospace Instrumentation, Russia		
15:30	20m	Context-awareness feature in Octotask task manager, Denis Laure, Ilya Paramonov, Yury Krupin,		
		Andrey Vasilev, YarSU, Russia		
15:50	20m	EcoWatch - a social mobile service for environmental monitoring, Alexander Borodin, PetrSU, Russia		
16:10		Coffee-break (SUAI, Bolshaya Morskaya 67, Main conference-hall)		
		CT info session - Status, News and Open Meeting of Web Working Group meeting		
	Main	conference-hall Chairman: Sergey Balandin		
16:40	30m	Overview of FRUCT: current status and latest updates and presentation of NordSecMob program,		
		Sergey Balandin, FRUCT, Finland		
17:10	20m	Personalization of the FRUCT social network, Valery Kirkizh, SUAI, Russia; Vitaly Petrov, Tampere		
		University of Technology, Finland; Maria Komar, Polina Shishkina, YarSU, Russia		
17:30	1h	Planning of the FRUCT program future and Web WG open discussion		
18:30		Closing of Day 2 followed by the meeting of FRUCT Advisory Board		













April 26 (Thursday)

Saint-Petersburg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67

09:00	30m	Registration and Day Agenda (SUAI, Bo	lshaya Mor	skaya 67, Main conference-hall)	
Session	Session: Opening and Plenary session of the Regional Seminar on Mobile Healthcare, Early Diagnostics and Fitness				
Room:	Room: Main conference-hall Chairman: Alexander Borodin				
09:30	45m	Mobile Healthcare in Russia, Oleg Medvedev, Moscow State University, Russia			
10:15	45m	Secure Remote Monitoring of Personal Medical Appliances, Andrei Gurtov, University of Oulu, Finland			
11:00	30m			orskaya 67, Main conference-hall)	
Session	n: Mok	pile Healthcare, Early Diagnostics and Fitn	iess I	Session: Modeling of Embedded Solutions	
Room:	: Main	conference-hall Chairman: Andı	rei Gurtov	Room: 53-03 Chairman: Valentin Olenev	
11:30	20m	IT and Medicine. Interdisciplinary collab	oration:	SDL/SystemC co-simulation and code auto-	
		Skolkovo case, Albert Efimov, Skolkovo;	lvan	generation, Michel Gillet, Nokia, Finland	
		Stoliarov, MSU, Russia			
11:50	45m	Motivating people to be physically active	e: the	Possibility of SystemC code generation from SDL	
		role of technology and web, Konstantin		specification, Pavel Morozkin, SUAI, Russia	
		Pekarskiy, Technogym SPA, Russia			
12:35	20m	Remote Monitoring of Human Body Join		Code-generator of parallel assembly code for	
		with Nokia N900 device, Tn Nagabhusha	-	digital signal processor, Nikita V. Bukharenko,	
		Shiva Prakash, SJCE, India; Suresh Chand		SUAI, Russia	
		Finland; Prabhu Shankar, Emroy Univers			
13:00	1h			break	
		pile Healthcare, Early Diagnostics and Fitn		Session: Embedded Solutions	
	1	conference-hall Chairman: Oleg Medv		Room: 53-03 Chairman: Michel Gillet	
14:00	20m			Adaptive libraries for multicore architectures with	
		Accelerometer Data, Evgeny Tsvetkov, P	etrsu,	explicitly-managed memory hierarchies,	
14.20	20	Russia		Konstantin Nedovodeev, SUAI, Russia	
14:20	20m	Sport Training System Based on ECG Mo		High-Level System-on-Chip Simulator, Aleksandr	
14.40	20m	Evgeny Stankevich, Ilya Paramonov, YarSU, Russia Cross-platform ECG Compression Library for		Orlov, Alexey Syschikov, SUAI, Russia	
14:40	20111	Mobile HealthCare Services, Alexander Borodin,		SpaceWire network performance evaluation during the streaming STP data transmission, Ilya	
		Yuliya Zavyalova, PetrSU, Russia	Jordani,	Korobkov, SUAI, Russia	
15:00	20m	Mobile Arrhythmia Detector, Yuliya Zavyalova, Plug & Play for SpaceWire networks: centralized			
13.00	20111	Alexander Borodin, PetrSU, Russia	yaiova,	algorithm, Ksenia Khramenkova, SUAI, Russia	
15:20	30m		olshava Mo	orskaya 67, Main conference-hall)	
		up meeting: Mobile Healthcare		Network technologies	
	_	erence-hall Chairman: Oleg Medvedev	Room: 53	_	
15:50		5		lk: Simulations and QoS in Modern Mobile	
			Networks	, Dmitry Petrov, Magister Solution Oy, Finland	
16:20	40m		Applicatio	on perspective on wireless communication medium	
			challenge	s, Pekka Jappinen, LUT, Finland	
17:00	20m	Mahila Haalthaara Marking Crays		g In A Highway Scenario: Vulnerable Vehicles	
		Mobile Healthcare Working Group	Problem,	Ali Bin Tariq, TUT, Finland	
17:20	20m	meeting	Fuzzy logi	c queue discipline processing over bottleneck link,	
			Vladimir [Deart, Andrey Maslennikov, MTUCI, Russia	
17:40	20m		On the Pr	ogress of Test Bench Development for IEEE 802.11-	
			based WL	AN Models Verification, Vitaly Petrov, Sergey	
				TUT, Finland; Maxim Egorov, YarSU, Russia	
18:00	30m	Preparation of the main conference-		to improve the efficiency of IPTV services, Alexey	
		hall to Demo Session and Social Event		xy, PJSC Rostelecom, Russia	
			o session ar	nd presentation of demos in Pecha Kucha format	
		conference-hall		Chairman: Ilya Paramonov	
18:30	2.5h	Demo Session and Social Event	(SUAI, Bol	shaya Morskaya 67, Main conference-hall)	













April 27 (Friday)

Saint-Petersburg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67

		Registration and Day Agenda (SUAI, Bolshaya Mor	
		ure of Telecommunications and Services	Session: Mobile Linux
		conference-hall Chairman: Valtteri Niemi	Room: 53-03 Chairman: Timofey Turenko
-		Future Telecommunications to make the	Cgroups as a Resource Management Technique,
05.13	45111	Information Society a seamless reality, Roberto	Vladimir Zapolskiy, Nokia, Finland
		Saracco, Telecom Italia, Italy	
		Saracco, refección italia, italy	Implementing Automatic Handover Solutions for Linux-based Mobile Devices, Nickolay Amelichev,
			FRUCT OSLL LETI, Russia
10.00	20.00	NA diator based Arabasa shifter Create Create	
10:00	20m	Mediator based Approach for Smart Spaces	Spatial filters implementation for Geo2Tag LBS
		Integration, Yury Korolev, Kirill Yudenok, OSLL	platform, Vasilii Romanihin, Mark Zaslavskiy, Kirill
40.00	20	LETI lab, Russia	Krinkin, FRUCT OSLL LETI lab, Russia
10:20	20m	Smart space logistic service for real-time	Traffic prediction in wireless mesh networks
		ridesharing, Alexey Kashevnik, Nikolay Teslya,	using process mining algorithms, Eugene
		SPIIRAS, Russia	Kalishenko, Kirill Krinkin, FRUCT OSLL LETI, Russia
10:40	20m	SmartDiet - Personal Wellbeing Assistant and Diet	Power-saving routing algorithms in wireless mesh
		Planner Mobile Service, Ekaterina Dashkova, TUT,	networks: A survey, Tn Nagabhushan, S.P.Shiva
		Finland; Regina Dorokhova, OSLL LETI lab, Russia	Prakash, SJCE, India; Kirill Krinkin, LETI, Russia
11:00		Coffee-break (SUAI, Bolshaya Mo	
		nantic Web and Knowledge mining	Working Group meeting: Qt and Mobile Linux
-	1	conference-hall Chairman: Roberto Saracco	Room: 53-03 Chairman: Timofey Turenko
11:30	45m		
		extraction, Vladimir Gorodetsky, SPIIRAS, Russia	
12:15	20m	OWL-ontology visualization tool, Pavel Smirnov,	
		Dmitry Mouromtsev, ITMO, Russia	Meeting of Qt and Mobile Linux Working Group
12:35	20m	Using Drool rule-platform for the optical CAD web-	
		application development, Dmitry Mouromtsev,	
		Maxim Kolchin, ITMO, Russia	
13:00	1h		break
		acy and Security	Session: Smart-M3 Platform
		conference-hall Chairman: Pekka Jappinen	Room: 53-03 Chairman: Alexey Kashevnik
14:00	40m	Privacy in mobile communications, Valtteri Niemi,	Smart-Space Working Group Activity Overview in
		Nokia, Finland	2011-2012, Alexey Kashevnik, SPIIRAS, Russia
			A demo blog recommendation system for
			SmartScribo, Diana Zaiceva, Dmitry Korzun,
			PetrSU, Russia
14:40	20m	Security key distribution while transmitting via an	Synchronization Problems in Parallel Activity of
		optical fibre with polarization and absorption,	SmartScribo Blog Processors, Rustam Kadirov,
		Anna Sotnikova, George Miroshnichenko, ITMO,	Ivan Galov, Dmitry Korzun, PetrSU, Russia
		Russia	
15:00	20m	Maemo/MeeGo platform security: great	SmartSlog knowledge patterns: initial
		framework or story of a failure, Timofey Turenko,	experimental performance evaluation, Pavel
		FRUCT, Finland	Vanag, Dmitry Korzun, PetrSU, Russia
			Fig. 1. The Court Court Assessed to
15:20	20m	Smart-M3 security activity, Kirill Yudenok, OSLL	Evaluation of the Smart Space Approach in
15:20	20m	Smart-M3 security activity, Kirill Yudenok, OSLL LETI, Russia	Mobile Data Processing, Sergey Marchenkov,
15:20	20m	• • • • • • • • • • • • • • • • • • • •	· · · · ·
15:20 15:40	20m	• • • • • • • • • • • • • • • • • • • •	Mobile Data Processing, Sergey Marchenkov, Pavel Vanag, Dmitry Korzun, PetrSU, Russia
15:40	20m	LETI, Russia	Mobile Data Processing, Sergey Marchenkov, Pavel Vanag, Dmitry Korzun, PetrSU, Russia
15:40 Worki	20m	LETI, Russia Coffee-break (SUAI, Bolshaya Mo	Mobile Data Processing, Sergey Marchenkov, Pavel Vanag, Dmitry Korzun, PetrSU, Russia rskaya 67, Main conference-hall)
15:40 Worki	20m ng Gro	Coffee-break (SUAI, Bolshaya Mo cup meeting: Smart Spaces and Internet of Things	Mobile Data Processing, Sergey Marchenkov, Pavel Vanag, Dmitry Korzun, PetrSU, Russia orskaya 67, Main conference-hall) Legal Training: Patents and Copyright (in Russian)
15:40 Worki Room	20m ng Gro	Coffee-break (SUAI, Bolshaya Morup meeting: Smart Spaces and Internet of Things conference-hall Chairman: Sergey Balandin Smart Spaces and Internet of Things WG meeting	Mobile Data Processing, Sergey Marchenkov, Pavel Vanag, Dmitry Korzun, PetrSU, Russia rskaya 67, Main conference-hall) Legal Training: Patents and Copyright (in Russian) Room: 53-03 Trainer: Vyacheslav Turenko













The 1st Regional Seminar on Mobile Healthcare, Early **Diagnostics and Fitness**

Seminar date: 26 April 2012 Place: SUAI, Bolshaya Morskaya 67, Main conference-hall

Overview

Association FRUCT supported by Nokia University Cooperation Program in Russia organizes the first Regional seminar on Mobile Healthcare, early diagnostics and fitness. Mobile healthcare is fast developing area with a lot of growth potential, research and business opportunities. The seminar is targeted to demonstrate state of the art in field of m-healthcare in Russia and CIS and exchange best practices and ideas with other regions. The seminar program consists of invited lectures given by the top experts in the field and presentation of students' research and development projects. The seminar organizers welcome all attendees of the FRUCT conference to join the seminar and become a member of FRUCT Mobile Healthcare working group.

Program of the Seminar

April 26 (Thursday)

Saint-Potershurg State University of Aerospace Instrumentation, Rolshava Morskava, 67

Saint-l	etersb'	urg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67
09:00	30m	Registration and Day Agenda (SUAI, Bolshaya Morskaya 67, Main conference-hall)
Sessio	n: Open	ning and Plenary session of the Regional Seminar on Mobile Healthcare, Early Diagnostics and Fitness
Room:	Main	conference-hall Chairman: Alexander Borodin
09:30	45m	Mobile Healthcare in Russia, Oleg Medvedev, Moscow State University, Russia
10:15	45m	Secure Remote Monitoring of Personal Medical Appliances, Andrei Gurtov, University of Oulu, Finland
11:00	30m	Coffee-break (SUAI, Bolshaya Morskaya 67, Main conference-hall)
Sessio	n: Mobi	ile Healthcare, Early Diagnostics and Fitness I
Room:	Main	conference-hall Chairman: Andrei Gurtov
11:30	20m	IT and Medicine. Interdisciplinary collaboration: Skolkovo case, Albert Efimov, Skolkovo; Ivan Stoliarov, MSU, Russia
11:50	45m	Motivating people to be physically active: the role of technology and web, Konstantin Pekarskiy, Technogym SPA, Russia
12:35	20m	Remote Monitoring of Human Body Joint Pains with Nokia N900 device, Tn Nagabhushan, S.P. Shiva Prakash, SJCE, India; Suresh Chande, Nokia, Finland; Prabhu Shankar, Emroy University, USA
13:00	1h	Lunch break
Sessio	n: Mobi	ile Healthcare, Early Diagnostics and Fitness II
Room:	Main	conference-hall Chairman: Oleg Medvedev
14:00	20m	Visualization of Human Posture Based on Accelerometer Data, Evgeny Tsvetkov, PetrSU, Russia
14:20	20m	Sport Training System Based on ECG Monitor, Evgeny Stankevich, Ilya Paramonov, YarSU, Russia
14:40	20m	Cross-platform ECG Compression Library for Mobile HealthCare Services, Alexander Borodin, Yuliya Zavyalova, PetrSU, Russia
15:00	20m	Mobile Arrhythmia Detector, Yuliya Zavyalova, Alexander Borodin, PetrSU, Russia
15:20	30m	Coffee-break (SUAI, Bolshaya Morskaya 67, Main conference-hall)
Session	n: FRUC	T Mobile Healthcare Working Group face-to-face meeting (cont.)
	Main	conference-hall Chairman: Oleg Medvedev
	Main o	conference-hall Chairman: Oleg Medvedev FRUCT Mobile Healthcare Working Group face-to-face meeting, Chairman: Oleg Medvedev
Room: 15:50 18:00	2.1h	FRUCT Mobile Healthcare Working Group face-to-face meeting, Chairman: Oleg Medvedev Closing of the Seminar Program
Room: 15:50 18:00 Session	2.1h n: Confe	FRUCT Mobile Healthcare Working Group face-to-face meeting, Chairman: Oleg Medvedev Closing of the Seminar Program erence social event combined with Demo session and presentation of demos in Pecha Kucha format
Room: 15:50 18:00 Session	2.1h n: Confe	FRUCT Mobile Healthcare Working Group face-to-face meeting, Chairman: Oleg Medvedev Closing of the Seminar Program













QML for Mobile Development Training (in Russian)

Training date: 23-25 April 2012 Place: SPbETU and SUAI universities

С 23 по 25 апреля 2012 года в Санкт-Петербурге, FRUCT при поддержке Nokia проводит открытый и бесплатный тренинг по разработке приложений на QML. Тренинг проводится на базе Санкт-Петербургского Государственного Электротехнического Университета "ЛЭТИ" и Санкт-Петербургского Государственного Университета Аэрокосмического Приборостроения (ГУАП). Приняв участие в тренинге, Вы получите необходимые знания и практические навыки по разработке приложений с использованием технологии QtQuick, и на практике познакомитесь с правилами и порядком регистрации приложений в Магазине Nokia.

Требования к участникам

Для участия в тренингах необходимо понимать основные концепции программирования и обладать хотя бы небольшим опытом программирования на одном из популярных языков. Необходимо иметь персональный компьютер с установленным QtSDK (последнюю версию SDK можно загрузить с сайта http://qt.nokia.com/). Также каждый участник тренинга должен:

- зарегистрировать персональную учетную запись в Магазине Нокиа;
- в дни тренинга зарезервировать 3-4 часа в день для самостоятельной работы по заданиям;
- иметь базовое представление о среде разработки Qt.

Program of the Training

April 23 (Monday)

Saint-Petersburg State Electrotechnical University "LETI", Prof. Popova 5, Building 3

Trainir	ng: QML	for Mobile Development: Getting started with QML		
	Room: 3402 Trainer: Kirill Krinkin			
08:30	30m	Registration and Day Agenda		
09:00	1.5h	Introduction into QtQuick and QML. Technology overview, Introduction to QML, architecture		
10:30	15m	Coffee break		
10:45	1.5h	Basic elements (Item, Rectangle, Image, Text, Component, MouseArea), Property Binding,		
		Component Layouts, Layouts and Anchors		
		Application as states and transitions. Animations		
12:15	45m	Lunch break		
13:00	1.5h	Using QtCreator and tools for QML Apps. Mastering with tools, project structure discussion.		
		Deploying QML application to device		
14:30	15m	Coffee break		
14:45	1.5h	QML and JS integration		
16:15	1h45m	Work on project		
18:00		Closing of Day 1		

April 24 (Tuesday)

Saint-Petersburg State Electrotechnical University "LETI", Prof. Popova 5, Building 3

Trainin	Training: QML for Mobile Development: Graphics and Components		
Room:	Room: 3402 Trainer: Kirill Krinkin		
09:00	1.5h	Data models and views. Model View Controller approach, components with models, delegates.	
		XmlListModel	
10:30	15m	Coffee break	
10:45	1.5h	Page based applications. Application and windowing, Page and page stack navigation	
12:15	45m	Lunch break	
13:00	1.5h	Integration QML with C++	
14:30	15m	Coffee break	













14:45	1.5h	Networking. Getting access to the Internet, using WebView.
16:15	1h45m	Work on project
18:00		Closing of Day 2

April 25 (Wednesday)

Saint-Petersburg State University of Aerospace Instrumentation, Bolshaya Morskaya, 67

Traini	Training: QML for Mobile Development: Extra components and capabilities				
Room	:	Trainer: Kirill Krinkin			
09:00	1.5h	QML and Mobility. Multimedia. Playing sounds and video. Reading input from camera			
10:30	1h15m	Location components. Getting GEO position, using maps applets			
11:45	15m	End of the training. Moving to the Main conference-hall for opening of 11 th FRUCT conference			

Don't forget that in order to participate in the seminar you have to make separate registration at http://fruct.org/qml_spb11

http://www.fruct.org 11 info@fruct.org













Demo Section at 11th FRUCT conference

Training date: 26 April 2012, 18:30 - 21:00 Place: SUAI, Bolshaya Morskaya 67, Main Conference hall

The Demo section of the 11th FRUCT conference will be combined with the demo session of the Regional seminar on Mobile Healthcare, early diagnostics and fitness and with the conference social event. The first part is a promotional section to present/introduce demo projects to the public. Presentations will be done following the Pecha Kucha style. Main idea of this section is to make people aware of the demo and become interested to visit the demo stand at the second part of the session. During the second part of demo session teams get a place to install the demo and poster. If you have some special requirements please contact organizing committee by email info@fruct.org.

Pecha Kucha Presentation Format

Pecha Kucha is a presentation technique where a speaker shows a definite number of slides (usually 20 or 15), each for 20 seconds. The slides are changed automatically during the talk. The main intention for Pecha Kucha presentation style is to prevent participants from being too verbose and to make their talks more dynamic and impressive.

Pecha Kucha Night is an event where each speaker uses Pecha Kucha presentation, and speakers change each other in non-stop fashion. Initially invented by architects, this kind of event is often used to present creative projects or work; nowadays it is also used for R&D talks too. Pecha Kucha Night format allows all participants to make announcements about their demos in attractive and time-efficient way. That is why we have chosen this format for demo promotion section at FRUCT conference. More information can be found at https://fruct.org/node/304822.

List of Demos

- 1. Multiplatform Client and Pecha Kucha Support for Smart Conference System, by Nikita Kozhemyakin, Yarsolavl State University (YarSU lab) and Ivan Galov, Petrozavodsk State University (PetrSU lab)
- 2. Interactive Metro Map for Moscow and St.-Petersburg, by Nikita Karpinsky, Evgeny Linsky and Alexander Malakhov, State University of Aerospace Instrumentation (SUAI lab)
- 3. Location-based service for tracking ThereAndHere, by Regina Dorokhova, Open Source and Linux Lab (OSLL) FRUCT lab and Sofya Kassaye, Moscow State University of Design and Technology
- 4. Geo2tag client: Doctor Search, by Ivan Bezyazychnyy and Kirill Krinkin, OSLL FRUCT lab
- 5. Underground interactive metro map on MeeGo and Symbian, by Nikita Karpinsky, SUAI lab
- 6. A demo blog recommendation system for SmartScribo, by Diana Zaiceva, PetrSU lab
- 7. SmartScribo Blog Client for Windows 7, by Stepan Polyakov, PetrSU lab
- 8. World Around Me client for Windows Phone devices, by Andrey Vdovenko, PetrSU lab
- 9. Evaluation of the Smart Space Approach in Mobile Data Processing, by Sergey Marchenkov, PetrSU lab
- 10. EcoTamagochi: Green Behaviour game, by Egor Anisimov, PetrSU lab
- 11. Firepoint: Application for Identified Fires Notification, by Inessa Sofronova, PetrSU lab
- 12. Musson: Qt-based platform for social network clients, by Kirill Kulakov, PetrSU lab
- 13. Learnings of QML development at PetrSU FRUCT lab, by Kirill Kulakov, PetrSU lab
- 14. Mobile Arrhythmia Detector, by Yuliya Zavyalova, PetrSU lab
- 15. Ecowatch application, by Alexander Borodin, PetrSU lab
- 16. Octotask: Context-aware GTD-style Task Organizer, by Denis Laure, YarSU lab
- 17. Sport Training System Based on ECG Monitor, by Ivan Timofeev, YarSU lab
- 18. Telemedical Monitoring on Android, by Evgeny Stankevich, YarSU lab
- 19. FRUCT Social Network, by Valery Kirkizh, SUAI lab
- 20. CDS: Context desktop for Symbian³, by Artem Pogorelov, PetrSU lab
- 21. Using NFC technology in mobile health, by Maxim Jatskovsky, Moscow State University lab
- 22. Personal diet planning assistant SmartDiet, by Dorohova Regina, OSLL FRUCT lab and Ekaterina Dashkova, Tampere University of Technology

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Legal training-seminar: Patents and Copyright (in Russian)

Training date: 27 April 2012, 16:00 - 17:30 Place: SUAI, Bolshaya Morskaya 67, room 53-03

Overview

В рамках 11ой FRUCT конференции состоится семинар-тренинг по патентному и авторскому праву. Семинартренинг проводится председателем коллегии патентных поверенных Санкт-Петербурга Вячеславом Туренко. На семинаре-тренинге будут рассмотрены вопросы возникновения, использования, защиты прав на результаты интеллектуальной деятельности согласно Российскому законодательству. Будут рассмотрены основания возникновения прав на результаты интеллектуальной деятельности (РИД), различные виды охраняемых РИД, в частности, объекты авторского права, такие как программы для ЭВМ и базы данных и так называемые объекты промышленной собственности — изобретения, полезные модели и промышленные образцы. Также будут вопросы различных видов прав на РИД и передачи прав на РИД. Будут рассмотрены особенности и проблемы связанные с РИД в России. В рамках тренинга будут освящены следующие вопросы:

- что такое результаты интеллектуальной деятельности
- как защитить результаты интеллектуальной деятельности
- зачем и в каких случаях нужен патент на изобретение, полезную модель и промышленный образец
- зачем нужен патент и как его получить
- обсуждение реальных примеров из практики в России
- что можно ожидать со стороны государства

Для участия в семинаре-тренинге не требуется дополнительной регистрации, но все участники должны быть зарегистрированными участниками 11ой FRUCT конференции.

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FOR NOTES













FOR NOTES













FOR NOTES

The 11th Conference of Open Innovations Association FRUCT and 1st Regional Seminar on Mobile Healthcare, Early Diagnostics and Fitness

Program

Saint-Petersburg, Russia April 23-27, 2012

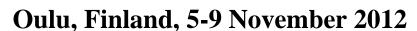
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CALL FOR PARTICIPATION

12th Conference of Open Innovations

Association FRUCT





Overview

FRUCT is the largest regional cooperation framework between academia and industry in form of open innovations. FRUCT conferences are attended by the representatives of 20 FRUCT member universities from Russia, Finland, Denmark, Italy, Ukraine, industrial experts from Nokia, Qt community, EMC², Business Oulu, Nokia Siemens Networks and a number of guests from other companies and universities.

The conference is an R&D forum for the most active students, academic experts, industrial researchers and influential representatives of business and government. The conference invites the world-class academic and industrial researchers to give lectures on the most relevant topics, provides an opportunity for student teams to present progress and results of their R&D projects, meet new interesting people and form new R&D teams. The conference program consists of 3 to 5 intensive (½ or full day) trainings on the most promising technologies, plus 3 days of the main conference.

We warmly welcome all university research teams to participate in the conference, present your research and join the FRUCT Program. Thanks to our sponsors, all participants can enjoy free of charge registration to the event, but the online registration must be done by everyone before the conference.

Background and motivation

The distinctive feature of modern IT and Telecommunications industries is in dramatic shortening of the period when technology remains commercially viable. On the one hand, this is due to the competition between key market players that are pushing all manufacturers to accelerate innovations; on the other hand, this is due to technological progress speed up caused by the growing expansion of intellectual resource invested into R&D and design activities. This trend is an important call and challenge for the leading educational and research institutions around the globe. In the FRUCT we believe that it is crucial to combine forces of EU and Russia to follow up the competition in adopting university education to the new industrial trends. The first step is to strength a bridge between Russian and Finnish academic worlds, increase visibility of involved research teams and set direct personal contacts between academic and industrial experts. More information about FRUCT is available at www.fruct.org.

Call for papers and presentations

Submit your full papers (up to 12 pages) and extended abstracts (min 200 words, max 2 pages) for project in progress and poster/demo by **September 24, 2012**. All submitted papers will be peer reviewed by the technical committee. Please follow provided paper templates. The list of conference topics is as follows:

- Mobile-Health, fitness and medical mobile solutions
- Smart spaces, new services, context analysis and data mining
- Cross-platform development and improvement of Qt platform
- Open source cross-platform development, Mobile Linux, solutions in MeeGo and Android
- Technology proofing, modeling, verification, validation, testing techniques
- Software and services for mobile devices, future applications design, UIs
- Mobile device security, management of personal and business privacy
- Design and optimization of emerging wireless network technologies
- Energy management, new sources of energy, green technologies
- Energy efficient design of sensors, integration of peripherals
- Modern network architectures, air interfaces and protocols
- Inter-device connectivity, embedded networks, co-design
- Mobile multimedia and video services and solutions

All conference papers and abstracts will be published in FRUCT proceeding and selected papers will be recommended for IEEE publication. The paper templates, conference news and updates, information on accommodation and all other details can be found from web page http://www.fruct.org/conference12.