

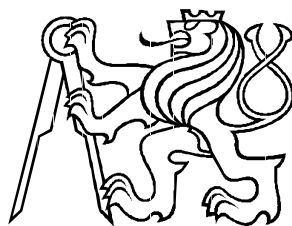
mobile med 2013

1st Conference on Mobile and Information Technologies in Medicine

November 20th 2013, Prague, Czech Republic,

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Conference Proceedings



Czech Technical University in Prague

Faculty of Electrical Engineering

Dept. of Cybernetics

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Welcome

Dear colleagues

It is my great pleasure to invite you to the 1st International Conference Mobile and Information Technologies in Medicine in Prague, Czech Republic.

The 1st MobileMed is the premier event for researchers and practitioners interested in applications of mobile communications to human health. It is a must attend opportunity if you wish to tap into the most recent discoveries within the synergistic areas of mobile and health and an opportunity to network with tomorrow's experts in the field. Mobile technologies are ubiquitous part of the modern world and provide novel possibilities to address problems faced by the ageing society

Again, welcome to Mobile Med 2013. I appreciate your participation and hope you will find this meeting stimulating and rewarding.

Daniel Novak, chair

Czech Technical University in Prague

This document

This document represents front matter for proceedings of MobieMed 2013, and includes basic summary of the conference. Full papers can be downloaded in form of an archive or individually from the conference website: <http://www.mobmed.org/2013.html>

Table of contents

Welcome	3
This document.....	3
Papers index.....	4
Authors index.....	6
Program Committee.....	10
Organizing committee.....	10
Keynote speakers.....	11
Conference programme.....	12
Contact.....	15

Papers index

Visualization of Privacy Filters for Sharing Personal Health Records <i>Edward Klein and Jesse Heines</i>	2
Cost-Effective Healthcare Telemonitoring <i>Po-Chou Liang and Paul Krause</i>	4
Ambient Assisted Living Role Profiles <i>Jokin Garatea and Ligia Whyte</i>	5
An Extensible Mobile Sensing Platform for mHealth and Telemedicine Applications <i>Gabor Novak, Darren Carlson and Stan Jarzabek</i>	6
Concept of individual driver assistance systems with inclusion of drivers performance <i>Toralf Trautmann and Patrick Rogge</i>	7
i-NeuroDEI: a virtual laboratory application for teaching neurophysiology <i>Jonay González Suarez, José Natán Rodríguez Martín, Carlos Rodríguez Reyes, David Rodríguez Martín, Alfonso Hernández Ibáñez, Julio Martínez Ballester, Rossany Roche and Guadalberto Hernández</i>	8
Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments <i>Arvind Raghu, Praveen Devarsetty, David Peiris, Gari Clifford and Lionel Tarassenko</i>	9
Remotely support for diagnosis and treatment <i>Baha Chbani and Petr Novak</i>	10
A Smartphone Application for Chronic Disease Self-management <i>Nicolas Ambroise, Sandrine Boussonnie and Axel Eckmann</i>	11
Avoiding Preanalytical Errors In Blood Gas Testing With A Smartphone App <i>Ana Magalhaes and Anne Skurup</i>	12
A Semantic Web based Mobile Framework for Designing Personalized Self-Management Interventions for Chronic Disease Management <i>Syed Sibte Raza Abidi, Samina Abidi and Ashraf Abusharekh</i>	14
Mobile Application for Accessing Biomedical Information Using Linked Open Data <i>Enrique Puertas, María Lorena Prieto and Manuel De Buenaga</i>	15
Exploiting Social Network and Semantic Content Analyses to Facilitate Online Knowledge Translation within an Online Community of Practice <i>Samuel Stewart and Syed Sibte Raza Abidi</i>	16
Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices <i>Beatriz López, Jordi Coll, Francisco I. Gamero, Eva Bargallo and Abel López-Bermejo</i>	17
Mobile system for collecting EEG/ERP data and metadata <i>Petr Ježek and Roman Moucek</i>	18

AsTeRICS <i>Alice Bednárová and Tomáš Drajsajtl</i>	19
Contactless Measurement of Heart Rate on iPad <i>Jan Plešek and Jan Šedivý</i>	20
A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies. <i>Michel Findeisen, Lars Meinel, Julia Richter, André Apitzsch and Gangolf Hirtz</i>	21
Evaluation of Records of Clickable Game for Strabism Retrieval <i>Jiri Anyz and Petr Novak</i>	22
Context sensitive navigation in Hospitals <i>Jan Balata, Miroslav Macik and Zdenek Mikovec</i>	23
Consumer Reporting of Psychiatric Drug Effects across the Internet: Improved Methods for Understanding Drug Harms <i>Shannon Hughes</i>	24
New approach for visual analysis of health monitoring data <i>Alexander Konyashin and Evgenya Patrakeeva</i>	25
Trusted Patient Coach <i>Michal Paulicek, Jan Syrinek, Pamela McNamara and Walter Houseman</i>	26
A mobile application for assessment of air pollution exposure <i>Giuseppe Lo Re, Daniele Peri and Davide Salvatore Vassallo</i>	27
Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones <i>Michael Holmes, Jerald Liu, Huanying Gu and Paolo Gasti</i>	28
Integrated Information System for Multi-criteria Management of Orthopedic Infections <i>James Ortiz, Damien De Nizza, Hubert Meurisse and Pierre-Yves Schobbens</i>	29
eScrapBook: Simple Scrapbooking For Seniors <i>Miroslav Uller, Marek Lenart and Olga Štěpánková</i>	30
BlindShell User Interface For Visually Impaired Users <i>Petr Svobodnik, Daniel Novak and Michal Cerman</i>	32
Implementation Of E-Medicine Solutions In The Care Of Patients With Diabetes Mellitus In Latvia: E-Medic Project Experience. <i>Revita Gaišuta and Ieva Vitola</i>	37

Authors index

A

- Abidi Samina** 14. A Semantic Web based Mobile Framework for Designing Personalized Self-Management Interventions for Chronic Disease Management
- Abidi Syed Sibte Raza** 14. A Semantic Web based Mobile Framework for Designing Personalized Self-Management Interventions for Chronic Disease Management
16. Exploiting Social Network and Semantic Content Analyses to Facilitate Online Knowledge Translation within an Online Community of Practice
- Abusharekh Ashraf** 14. A Semantic Web based Mobile Framework for Designing Personalized Self-Management Interventions for Chronic Disease Management
- Ambroise Nicolas** 11. A SMARTPHONE APPLICATION FOR CHRONIC DISEASE SELF-MANAGEMENT
- Anyz Jiri** 22. Evaluation of Records of Clickable Game for Strabism Retrieval
- Apitzsch André** 21. A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies

B

- Balata Jan** 23. Context sensitive navigation in Hospitals
- Bargallo Eva** 17. Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices

- Bednárová Alice** 19. AsTeRICS
- Boussonnie Sandrine** 11. A SMARTPHONE APPLICATION FOR CHRONIC DISEASE SELF-MANAGEMENT

- Buenaga Manuel De** 15. Mobile Application for Accessing Biomedical Information Using Linked Open Data

C

- Carlson Darren** 6. An Extensible Mobile Sensing Platform for mHealth and Telemedicine Applications
- Cerman Michal** 32. BlindShell – User Interface For Visually Impaired Users
- Chbani Baha** 10. Remotely support for diagnosis and treatment
- Clifford Gari** 9. Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments
- Coll Jordi** 17. Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices

D

- De Nizza Damien** 29. Integrated Information System for Multi-criteria Management of Orthopedic Infections

- Devarsetty Praveen** 9. Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments

- Drajsajtl Tomáš** 19. AsTeRICS

E

- Eckmann Axel** 11. A SMARTPHONE APPLICATION FOR CHRONIC DISEASE SELF-MANAGEMENT

F

Findeisen Michel	21. A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies
G	
Gaišuta Revita	37. IMPLEMENTATION OF E-MEDICINE SOLUTIONS IN THE CARE OF PATIENTS WITH DIABETES MELLITUS IN LATVIA: E-MEDIC PROJECT EXPERIENCE
Gamero Francisco I	17. Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices
Garatea Jokin	5. AMBIENT ASSISTED LIVING ROLE PROFILES
Gasti Paolo	28. Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones
González Suarez Jonay	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Gu Huanying	28. Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones
H	
Heines Jesse	2. Visualization of Privacy Filters for Sharing Personal Health Records
Hernández Guadalberto	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Hernández Ibáñez Alfonso	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Hirtz Gangolf	21. A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies
Holmes Michael	28. Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones
Houseman Walter	26. Trusted Patient Coach
Hughes Shannon	24. Consumer Reporting of Psychiatric Drug Effects across the Internet: Improved Methods for Understanding Drug Harms
J	
Jarzabek Stan	6. An Extensible Mobile Sensing Platform for mHealth and Telemedicine Applications
Ježek Petr	18. Mobile system for collecting EEG/ERP data and metadata
K	
Klein Edward	2. Visualization of Privacy Filters for Sharing Personal Health Records
Konyashin Alexander	25. New approach for visual analysis of health monitoring data
Krause Paul	4. Cost-Effective Healthcare Telemonitoring
L	
Lenart Marek	30. eScrapBook: Simple Scrapbooking For Seniors
Liang Po-Chou	4. Cost-Effective Healthcare Telemonitoring
Liu Jerald	28. Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones
Lo Re Giuseppe	27. A mobile application for assessment of air pollution exposure
López Beatriz	17. Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices
López-Bermejo Abel	17. Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices
M	
Macik Miroslav	23. Context sensitive navigation in Hospitals

Magalhaes Ana	12. AVOIDING PREANALYTICAL ERRORS IN BLOOD GAS TESTING WITH A SMARTPHONE APP
Martínez Ballester Julio	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
McNamara Pamela	26. Trusted Patient Coach
Meinel Lars	21. A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies
Meurisse Hubert	29. Integrated Information System for Multi-criteria Management of Orthopedic Infections
Mikovec Zdenek	23. Context sensitive navigation in Hospitals
Moucek Roman	18. Mobile system for collecting EEG/ERP data and metadata
N	
Novak Daniel	32. BlindShell – User Interface For Visually Impaired Users
Novak Gabor	6. An Extensible Mobile Sensing Platform for mHealth and Telemedicine Applications
Novak Petr	22. Evaluation of Records of Clickable Game for Strabism Retrieval
Novak Petr	10. Remotely support for diagnosis and treatment
O	
Ortiz James	29. Integrated Information System for Multi-criteria Management of Orthopedic Infections
P	
Patrakeeva Evgenya	25. New approach for visual analysis of health monitoring data
Paulicek Michal	26. Trusted Patient Coach
Peiris David	9. Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments
Peri Daniele	27. A mobile application for assessment of air pollution exposure
Plešek Jan	20. Contactless Measurement of Heart Rate on iPad
Prieto María Lorena	15. Mobile Application for Accessing Biomedical Information Using Linked Open Data
Puertas Enrique	15. Mobile Application for Accessing Biomedical Information Using Linked Open Data
R	
Raghu Arvind	9. Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments
Richter Julia	21. A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies
Roche Rossany	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Rodríguez Martín David	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Rodríguez Martín José Natán	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.
Rodríguez Reyes Carlos	8. i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology.

- Rogge Patrick** 7. Concept of individual driver assistance systems with inclusion of drivers performance
- S**
- Schobbens Pierre-Yves** 29. Integrated Information System for Multi-criteria Management of Orthopedic Infections
- Šedivý Jan** 20. Contactless Measurement of Heart Rate on iPad
- Skurup Anne** 12. AVOIDING PREANALYTICAL ERRORS IN BLOOD GAS TESTING WITH A SMARTPHONE APP
- Štěpánková Olga** 30. eScrapBook: Simple Scrapbooking For Seniors
- Stewart Samuel** 16. Exploiting Social Network and Semantic Content Analyses to Facilitate Online Knowledge Translation within an Online Community of Practice
- Svobodník Petr** 32. BlindShell – User Interface For Visually Impaired Users
- Syrinek Jan** 26. Trusted Patient Coach
- T**
- Tarassenko Lionel** 9. Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments
- Trautmann Toralf** 7. Concept of individual driver assistance systems with inclusion of drivers performance
- U**
- Uller Miroslav** 30. eScrapBook: Simple Scrapbooking For Seniors
- V**
- Vassallo Davide Salvatore** 27. A mobile application for assessment of air pollution exposure
- Vītola Ieva** 37. IMPLEMENTATION OF E-MEDICINE SOLUTIONS IN THE CARE OF PATIENTS WITH DIABETES MELLITUS IN LATVIA: E-MEDIC PROJECT EXPERIENCE
- W**
- Whyte Ligia** 5. AMBIENT ASSISTED LIVING ROLE PROFILES

Program Committee

Daniel Novak (chair), Dept. of Cybernetics, FEE CTU in Prague
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Daniel Novák
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Pavel Vostatek

[Nature inspired technologies group](#)
[Department of Cybernetics](#)
[Faculty of Electrical Engineering](#)
[Czech Technical university in Prague](#)

Keynote speakers



MUDr. Filip Španiel, PhD

Being a clinical psychiatrist at PCP Prague, his main aim is to alleviate patients from disabling symptoms of severe psychiatric diseases such as schizophrenia or bipolar disorder. He focuses on modern technologies in psychiatric research.

His will speak on **ITAREPS: Information Technology Aided Relapse Prevention in Schizophrenia**



Ing. Petr Nálevka, PhD

Dr. Nálevka is a visionary and developer, working on novel and interactive methods in medicine and home monitoring. He developed successful Sleep as Android application for sleep monitoring.

His talk will be on **Development of smart(phone) applications for everyday assistance.**



Mgr. Roman Gabrhelík, PhD

Dr. Gabrhelik is a psychologist specializing in addictions research and working at the Center for Addictology at the Psychiatric Clinic at the Charles University in Prague.

His talk will be on Methamphetamine: **Craving and Use in the Transition Period from Inpatient to Outpatient Treatment**



Prof. Misha Pavel

Misha Pavel - program director for Smart and Connected Health at the U.S. National Science Foundation (NSF) and Professor at Northeastern University in Boston - will give invited speech at MobileMed 2013.

In his talk, he will **introduce U.S. NSF-NIH program in Smart and Connected Health and discuss the challenges at the intersection of computer science, engineering and healthcare.**



Pavel Kubu, M.D.

Dr. Pavel Kubu is a doctor of Medicine specialized in experienced in eHealth and mHealth tools, currently working as expert on Medical Informatics at Intel corp.

His talk will be on **Special needs and threats of elderly people in the virtual world.**

Conference programme

Keynotes

- 9:00 Filip Spaniel ITAREPS: Information Technology Aided Relapse Prevention in Schizophrenia
- 9:20 Petr Nalevka Development of smart(phone) applications for everyday assistance.
- 9:40 Roman Gabrhelik Methamphetamine: Craving and Use in the Transition Period from Inpatient to Outpatient Treatment

Morning session 1

session chair: Vaclav Chudacek

- 10:00 Shanon Hughes [Consumer Reporting of Psychiatric Drug Effects across the Internet: Improved Methods for Understanding Drug Harms \(24\)](#)
- 10:15 Nicolase Amroise [A Smartphone Application For Chronic Disease Self-Management \(11\)](#)
- 10:30 Po-Chou Liang [Cost-Effective Healthcare Telemonitoring \(4\)](#)
- 10:45 Gabor Novak [An Extensible Mobile Sensing Platform for mHealth and Telemedicine Applications \(6\)](#)

Coffee break

11:00 - 11:15 (sponsored by Intel)

Morning session 2

session chair: Roman Gabrhelik

- 11:15 Edward Klein [Visualization of Privacy Filters for Sharing Personal Health Records \(2\)](#)
- 11:30 Michel Findeisen [A Long Term Diagnostics System Based On Intelligent Smart Sensor Technologies \(21\)](#)
- 11:45 Ana Magalhaes [Avoiding Preanalytical Errors In Blood Gas Testing With A Smartphone App \(12\)](#)
- 12:00 Samuel Stewart [Improving Our Understanding Of Medicine 2.0 Communities: Combining Content And Social Network Analysis \(16\)](#)

Lunch

12:15-13:00

Poster section

13:00-14:00

Jan Plesek	Contactless Measurement of Heart Rate on iPad (20)
Jiri Anyz	Evaluation of Records of Clickable Game for Strabism Retrieval (22)
Enrique Puertas	Mobile Application for Accessing Biomedical Information Using Linked Open Data (15)
Jan Balata	Context sensitive navigation in Hospitals (23)
Alexander Konyashin	New approach for visual analysis of health monitoring data (25)
Baha Chbani	Remotely support for diagnosis and treatment (10)
Jonay González Suarez	i-NeuroDEI©: a virtual laboratory application for teaching neurophysiology (8)
Miroslav Uller	eScrapBook: Simple Scrapbooking For Seniors (30)
Jokin Garatea	Ambient Assited Living Role Profiles (5)
Petr Svobodnik	BlindShell – User Interface For Visually Impaired Users (32)

Keynotes

14:00	Misha Pavel	Smart and Connected Health
14:30	Pavel Kubu	Special needs and threats of elderly people in the virtual world.

Afternoon session 1

session chair: Misha Pavel

15:00	Daniele Peri	A mobile application for assessment of air pollution exposure (27)
15:15	Arvind Raghu	Mobile health for Cardiovascular disease risk screening and management in resource-constrained environments (9)
11:30	Toralf Trautmen	Concept of individual driver assistance systems with inclusion of drivers performance (7)

- 15:45 Pavel Jezek [Mobile system for collecting EEG/ERP data and metadata \(18\)](#)
- 16:00 Beatris Lopez [Intelligent Systems for Supporting Premature Babies Healthcare with Mobile Devices \(17\)](#)
- Coffee break**
- 16:15-16:30 (sponsored by Intel)
- Afternoon session 2**
- session chair: Pavel Kubu*
- 16:30 Michael Holmes [Privacy-Preserving Symptoms-to-Disease Mapping on Smartphones \(28\)](#)
- 16:45 Michal Pavlicek [Trusted Patient Coach \(26\)](#)
- 17:00 Alice Bednarova [Asterics \(19\)](#)
- 17:15 Syed Raza Abidi [A Semantic Web Based Mobile Framework For Designing Personalized Patient Self-management Interventions \(14\)](#)
- 17:30 James Ortiz [Integrated Information System for Multi-criteria Management of Orthopedic Infections \(29\)](#)
- 17:45 Revita Gasuita [Implementation of E-Medicine Solutions in the Care of Patients with Diabetes Mellitus in Latvia: EMedic Project Experience \(37\)](#)

Contact

Daniel Novak

(conference chair)

Czech Technical University,
Faculty of Electrical Engineering,
Department of Cybernetics

Karlovo namesti 13,
121 35,
Prague 2,
Czech Republic

Tel +420 224 357 314,
Fax +420 224 923 677

xnovakd1@labe.felk.cvut.cz