

8th Symposium on Location-Based Services Vienna, 21–23 November 2011

LBS 201

Program

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- 9:00 □ Registration
- 10:00 □ Workshop Opening VICE RECTOR JOHANNES FRÖHLICH, GEORG GARTNER

Visualization and Communication

Chair: Georg Gartner

- 10:30-11:45 15 min slots
- ☐ Pedestrian Navigation with Augmented Reality, Voice and Digital Map: Results from a Field Study assessing Performance and User Experience KARL REHRL, ELISABETH HÄUSLER, RENATE STEINMANN, SVEN LEITINGER, DANIEL BELL AND MICHAEL WEBER
- ☐ Mobile Augmented Reality for Tourists MARFT PATRICK LULEY, ROLAND PERKO, JOHANNES WEINZERL, LUCAS PALETTA AND ALEXANDER ALMER
- ☐ The SpaceBook Project: Pedestrian Exploration of the City Using Dialogue Based Interaction over Smartphones WILLIAM MACKANESS, J. BOYE, S. CLARK, M. FREDRIKSSON, H. GEFFNER, O. LEMON, M. MINOCK AND B. WEBBER
- ☐ What's up that street? Exploring streets using a Haptic GeoWand RICKY JACOB, PETER MOONEY AND ADAM WINSTANLEY
- □ Dynamic visualization of geospatial data on small screen mobile devices FANGLI YING, PETER MOONEY, PADRAIG CORCORAN AND ADAM C. WINSTANLEY

90 min break Modelling I

Chair: William Cartwright

- ① 13:15-14:40 15 min slots
- ☐ Using Context-aware Collaborative Filtering for POI Recommendation in Mobile Guides HAOSHENG HUANG AND GEORG GARTNER
- □ Personalized Relevance in Mobile Geographic Information Retrieval CHANDAN KUMAR AND SUSANNE BOLL
- ☐ I'm Feeling LoCo: A Location Based Context Aware Recommendation System
 N. SAIPH SAVAGE, MACIEJ BARANSKI, NORMA ELVA CHAVEZ AND TOBIAS HÖLLERER
- ☐ Spatial Data Computations in a Toolkit to Improve Accessibility for Mobile Applications JANNE KOVANEN, PAUL KELLY, STUART FERGUSON, L. TIINA SARJAKOSKI AND TAPANI SARJAKOSKI
- □ A Preference SQL Approach to Improve Context-Adaptive Location-Based Services for Outdoor Activities FLORIAN WENZEL, MARTIN SOUTSCHEK AND WERNER KIESSLING
- 5 min ☐ Showcase: Spatial Preferences for One-Step-Search in Location-Based Services
 FLORIAN WENZEL, PAULUS SEBASTIAN AND WERNER KIESSLING 5 MINUTES
- 5 min Showcase: OSMapTuner A handy mobile editor helping to improve OSM data guality SVEN LEITINGER, DANIEL PLATZER, HARALD RIESER AND KARL REHRL

35 min break

Modelling II	& Information Presentation	Chair: William Mackaness
① 15:15-16:25 10 min slots	 □ Routing for inexperienced drivers JUKKA KRISP □ On finding dissimilar route alternatives in road networks STÉPHANIE VANHOVE AND VEERLE FACK 	
	☐ Smart mobile devices for extracting real-time transit inform BASHIR SHALAIK, RICKY JACOB AND ADAM WINSTANLEY	ation
	☐ The user analysis of the understanding of space for the esta infrastructure for schematic navigation maps KAREL STAN	9 .
	$\hfill\Box$ The Point Symbology in Augmented Reality on Mobile Device	es Lukasz Halik
	☐ The Effects of Speed and Visual Emphasising on the Perception SALLA MULTIMÄKI AND PAULA AHONEN-RAINIO	tion of Map Animations
	☐ Handheld Displays versus Paper Maps: Requirements of Out	tdoor Users Concerning
20 min break	Overview and Detailed View MANFRED F. BUCHROITHNER A	AND CHRISTINE PREIWUSS
Modelling III		Chair: Gennady Andrienko
① 16:45–18:00 15 min slots	☐ Tracking movements with mobile phone billing data: a case	
1311111 31013	data MATTHEW KWAN, WILLIAM CARTWRIGHT AND COLIN A Comparative analysis of urban areas through mobile phone	
	in the Amsterdam metropolitan region FILIPPO DAL FIORE, AND BARTOSZ HAWELKA	,
	$\hfill \square$ Integrated Spatiotemporal Analysis of Mass Events \hfill CHRIS	
	 Finding interesting places and characteristic patterns in spatrajectories UDO FEUERHAKE, COLIN KUNTZSCH AND MONII 	•
	☐ Theoretical and Methodological Framework for Measuring P	
₹ ice breaker party	Mobile Positioning Databases ERKI SALUVEER, SIIRI SILM A	ND REIN AHAS
Tueedau	ı, 22 Nov 2011	
Positioning		Chair: Günther Retscher
() 9:00–10:30	□ Discovering the Sensor Web through Mobile Applications	THEODOR FOERSTER.
15 min slots	DANIEL NÜST, ARNE BRÖRING AND SIMON JIRKA	,
	□ Positioning under Adverse Conditions using High Sensitivity TRAJKOVSKI, DUŠAN PETROVIČ, OSKAR STERLE AND BOJAN S	
	☐ Adaptive Indoor Hybrid Positioning for LBS LINYUAN XIA, D	
	AND GUENTHER RETSCHER	
	☐ Accuracy Requirements and Benchmarking Position Solution Location Based Services SCOTT STEPHENSON, XIAOLIN ME ANTHONY BAXENDALE AND TIM EDWARDS	•
	☐ Integrated Navigation Using Visual Odometry and IMU in the ments CHUN LIU, FAGEN ZHOU, YIWEI SUN, LIANBI YAO AND	
5 40 min break	☐ Smartphone-Based Portable Pedestrian Indoor Navigation: E and Positioning BEATE WENINGER, JOHANNES BOUCHAIN, C HARALD STERNBERG	-
Application	sl	Chair: Jukka Krisp
11:10-12:25 15/10 min slots	☐ Investigation And Development Of Mobile Touristic Application	ions EVA HAUTHAL AND
	☐ Combining indoor and outdoor navigation: the current appr ANN VANCLOOSTER AND PHILIPPE DE MAEYER	oach of route planners

	[LatYourLife: A Geo-Temporal Task Planning Application AMIN ABDALLA
10) min [Development of a Traffic Incident Hotspot Data Acquisition System Based on Open-source GIS HAO YE, XIAOLIN MENG, LEI YANG AND SUCHITH ANAND
10) min [Modeling of Physical Health Parameters Based on GIS and Sensor Integration CHRISTIAN HESSING AND MANFRED F. BUCHROITHNER
10 VI 75 min break		Railway Alignment Optimization for Specified Travel Timesaving JIAN YANG AND LIQIU MENG
Positionii	ng I	& General Research on LBSChair: Barend Köbbe
13:40–15:10 10 min slots		☐ The Integrated Tracking System using GPS PAVLA BARTOSOVA☐ About expert system for Wi-Fi access points DMITRY NAMIOT AND MANFRED SNEPS-SNEPPE
	[Use of Smartphones for Tracking and Trip Recording ESMOND MOK, GUENTHER RETSCHER, DONGGEN WANG AND LINYUAN XIA
	[A Novel Magnetic Indoor Positioning System for Indoor Location Services JOERG BLANKENBACH, ABDELMOUMEN NORRDINE, HENDRIK HELLMERS AND EDUARD GASPARIAN
	[Towards the Development of Collaborative UWB-GPS In-Vehicular Navigation System in GPS-Challenged Environments MOHD YAHYA, TERRY MOORE, CHRIS HIDE AND CHRIS HILL
	[☐ The Impact of the Adoption of 3G Mobile Networks on the LBS Market in China RUI SONG, XIAOLIN MENG AND SIMON MOSEY
	[Accessibility to essential services and facilities by a spatially dispersed aging population in suburban Melbourne, Australia GANG-JUN LIU AND BENNO ENGELS
	[Current development of Android-based location-based system in Indonesia R V HARI GINARDI
40 min break		Context-Aware Geovisualisation: Utilising Place with Location Based Data CHRIS MARMO, WILLIAM CARTWRIGHT AND JEREMY YUILLE
Applicati		Chair: Theodor Först
15:50-17:10 10 min slots) [An Augmented Reality Framework for Architectural Applications STEFAN NIEDERMAIR AND PETER FERSCHIN
		A 3D Touristic Guide on Mobile Devices JOSE MARIA NOGUERA,
		CARLOS JAVIER OGAYAR, RAFAEL JESUS SEGURA AND ANTONIO J. RUEDA
	[ITS Vienna Region, the Graph Integration Platform GIP and the new traffic service AnachB.at HANS FIBY
	[i-Cadastre - A Prospective LBS-Tool for E-Government in Land Management? GERHARD NAVRATIL, REINFRIED MANSBERGER AND GERHARD MUGGENHUBER
		Mountain Guide 3 in 1 - Utilizing Cartography KAREL KRIZ
	[Augmented reality and spatiality in tourism and regional development JAKUB TROJAN AND LUKÁŠ ŠINOGL
	[GPS Tourist Multimedia Guide – Urban Sight-seeing Navigation System PAVEL TUČEK, LUKÁŠ MAREK, VIT PASZTO, MICHAELA TUČKOVÁ, ONDŘEJ RŮŽIČKA, VIT VOŽENÍLEK AND NIKOLA SCHMIDT
	[SDImobile: Open Source Geo-Webservices for Mobile Data Capture in Cadastral Applications ERVIN RAMONLLARI, BAREND KÖBBEN AND JAVIER MORALES
Worksho	nn F	linner

Wednesday, 23 Nov 2011

Web 2.0 Chair: Peter Mooney

9:00-10:00 15 min slots □ EmoMap - Considering Emotional Responses to Space for Enhancing LBS SILVIA KLETTNER, MANUELA SCHMIDT AND HAOSHENG HUANG

☐ A Mobile LBS for Geo-Content Generation Facilitating Users to Share, Rate and Access Information in a Novel Manner

HELMUT SCHROM-FEIERTAG, PATRICK LULEY AND LUCAS PALETTA

☐ Quality Assessment of Volunteered Geographical Data – A case-study with OpenStreetMap using evolution of features and contribution patterns

BŁAŻEJ CIEPŁUCH, PETER MOONEY AND ADAM WINSTANLEY

☐ Combining VGI with Viewsheds for Photo Tag Suggestion
BAREND KÖBBEN, OTTO HUISMAN AND HSIANGHSU LIN

Web 2.0 & Privacy Issues

Chair: Haosheng Huang

① 10:30–11:30 15 min slots

30 min break

☐ Using OSM for LBS – an analysis of changes to attributes of spatial objects
PETER MOONEY AND PADRAIG CORCORAN

☐ A Web Map for Emergency Information System: an Interface for Community-Based Emergency and Recovery Response in Merapi Volcanic Eruption 2010

TRIAS ADITYA AND AGUNG SUBROTO

☐ Adding Social Constraints to Location Based Services

GRANT MCKENZIE AND MARTIN RAUBAL

☐ Privacy Issues in Geospatial Visual Analytics

¶ farewell drinks

GENNADY ANDRIENKO AND NATALIA ANDRIENKO



Lunch Suggestions

Lunch is not included. There are many food options in walking distance. Here are some recommendations:

- 1 Korfu (Greek), Wiedner Hauptstraße 4
- 2 Billa (supermarket)
- 3 Salon Wichtig (sandwiches & curry), Karlsgasse 22
- 4 Wiaz'haus (Austrian), Gußhausstraße 24
- 5 Asia Pavillion (Chinese), Favoritenstraße 1
- 6 Unglaublich (Austrian), Schleifmühlgasse 7
- 7 blueorange (bagels), Margaretenstrasse 9
- 8 Point of Sale (modern), Schleifmühlgasse 12
- Gastwirtschaft (traditional Austrian), Rilkeplatz 7
 Mensa of TU Vienna (cheap), Wiedner Hauptstraße 8-10, first floor
- 11 Mann (bakery)
- 12 Café Museum (traditional Viennese), Friedrichstraße 6

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