CALL FOR PAPERS

MOBILIGHT 2010
Mobile Lightweight Wireless Systems
ICST

International Workshop on User Adaptive Systems for Mobile Wireless Systems (UAS 2010)

To be held during the 2nd Conference on Mobile Lightweight Wireless Systems (MOBILIGHT 2010).

*Barcelona, Spain, 10-12 May, 2010, **http://www.mobilight.org***

Scope:

The idea of User Adaptive Systems (UAS) is in interaction between user and system through his mobile device. Such interconnection can behold in the reaction on user's non declared requests. These requests include namely user current position, user future-predicted position, his movement and tracking. By the combination of these requests in conjunction with other sources of user's knowledge and behaviors, the sophisticated information system can be developed as UAS. Such developed UAS can be widely implemented to Mobile Information Systems as important part for user requests processing, position tracking, user behaviors, etc.

The UAS also may take advantages of Location Based Systems oriented to providing information support based on current user's position. The conjunction of both systems will lead to a development of smart complex systems with a higher level of interaction and intelligence addressing more complex environment especially in current cities, industrial parks and buildings.

The UAS workshop will be linked to Mobilight 2010 conference in these topics:

- *Pervasive and wearable computing*
- *Lightweight devices architecture*
- *Internetworking and interoperability*
- *Anytime, Anywhere, Any device*
- *Interactive multimedia*
- *Ambient assisted living*
- *Usability and HMI*
- *Location and context aware services*
- *Emerging and next generation services*
- *Architectures deployment*
- *Next generation lightweight devices*
- *Users' needs and requirements*
- *Available and emerging solutions*

The goal of this workshop is to bring together researchers from different fields of expertise, lead to a better understanding between them, and to promote interaction in this new and interdisciplinary area. All in all, we want to create an opportunity for the participants to exchange about a wide range of topics related to pervasive adaptation and "awareness of the user", covering theoretical aspects as well as algorithms,

practical methods, concrete applications, system architectures or use cases. Topics to be covered by UAS workshop include:

- *User centric adaptivity in Mobile Information Systems*
- *Innovative architecture and infrastructure of User Adaptive Systems for algorithms and methods implementation in Mobile Information Systems*
- *Advanced Computational techniques of User Adaptive Systems*
- *e-health and Bio-Telemetry in User Adaptive Systems for Mobile Information Systems*
- *Geographic Information Systems (GIS) for User Adaptive Systems in Mobile Information Systems*
- *Facility management interacting with User Adaptive Systems*
- *Location based services supporting User Adaptive Systems*

Important dates:

Paper submission deadline	*January 15, 2010*
Notification of Acceptance	*February 15, 2010*
Final paper	*March 15, 2010*

The papers should be submitted electronically in PDF format and using the MOBILIGHT paper template, through the MOBILIGHT webpage (www.mobilight.org/) following the instructions given in the Submission Guidelines section.

Accepted papers will be published by Springer in the MOBILIGHT Conference Proceedings and made available online through Springer Lecture Notes of ICST (LNICST).

Note: Papers submitted to each workshop should be original and peer reviewed by the program committee and external reviewers. An accepted paper must be registered and presented at the workshop venue.

Organizing committee:

***Ondrej Krejcar** has co-organized an IFAC WORKSHOP on PROGRAMMABLE DEVICES and EMBEDDED SYSTEMS PDeS 2009. He is a member of 13 Technical and Program Organizing Committee and several Journal Editorial Boards. Ondrej is an author of 14 Lecture Notes (LNCS, LNAI, LNICST, IFIP, IFMBE) in Springer and 20 other papers in Thomson ISI. He received his Master of Science in Control and Information Systems at Department of Measurement and Control, VSB Technical University of Ostrava, Czech Republic in 2002. He also received a Ph.D. in Technical Cybernetics at same department in 2008. He is currently an Assistant Professor at VSB Technical University of Ostrava, Czech Republic and a researcher at National Centre of Czech Republic - Centre for Applied Cybernetics from 2005 till now. His research and teaching interest are in wireless connected mobile devices, embedded devices, wireless networks, software framework architectures and developing, database caching and prebuffering, and localization of devices and peoples. He is an author of five Springer published articles on Localization of wireless mobile device users and crisis management. He has published over 30 conference and journal papers on a range of topics in mobile information technology. He was a member of working group on the Fifth European Community Framework Programme, TRANSCAT - Integrated Water Management of Transboundary Catchments. Co-investigator of several national grants of Czech Republic. During the last 5 years, he*

supervised over the ten master and bachelor students. M.Sc. Ondrej Krejcar, Ph.D. is a member of ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering) and several international program committees and editorial boards.

***Assoc. Prof., Dr. Jiri Horak** is a chairman of Symposium GIS Ostrava (2004-2010). He is an author of 2 journal papers (with impact factor) in Thomson ISI. Jiri Horak received his Ph.D. in geological engineering from VSB-Technical university of Ostrava in 1998. He is associated professor in Geoinformatics (VSB-TU Ostrava) since 2002. He is head of Institute of Geoinformatics (VSB-TU Ostrava). Involved in projects TRANSCAT [5FP], METROPOLIS [5FP], GINIE [5FP], HUMBOLDT [6FP] and many national projects including coordination "Implementation of tools for spatial analysis of labour market in labour office activities" for the Czech Ministry of Social Affairs. Project manager of 2 PHARE projects, co-operator of TANDEM project "Research and development of a modular system of the forming of applications for Integrated Water Management System". He is an author or co-author of 4 books, chief editor of the book Advances in Geoinformation Technologies 2009, more than* 100 conference and journal papers. Key qualifications are geographical information systems, particularly spatial statistics and applied geostatistics, hydroinformatics and *architectures of GIT applications. Assoc. Prof. Dr. Jiri Horak is a vicechairman of the Czech Association for Geoinformation, a member of Czech Meteorological Society, member of scientific committee of conferences and editorial boards.*

***Marek Penhaker,** Ph.D. , has organized YBERC 2008 Conference. He is an author of 8 Lecture Notes (IFMBE) in Springer and 12 papers in Thomson ISI. Marek Penhaker finished MSci in 1996 at Faculty of Electrical Engineering and Computer science in specialization Measurement and Control in Biomedicine at VŠB – Technical University of Ostrava, Czech Republic. He followed his Ph.D. studies with the thesis entitled "The development of the process for systematic diagnostics of vascular system conditions with the use of plethysmographycal record" where he was specialized in biosignal processing and measurement. He received Ph.D. in Technical Cybernetics from VŠB – TU Ostrava in 2000. In October 2000 he started working as a professor assistant at VŠB – TU Ostrava in the field of biosignal measurement, transmission and processing. Since 2002 he is Guarantee of MSci specialization Measurement and Control in Biomedicine, from 2003 he is vice-director for research and science of Department Measurement and Control. Currently he is from 2004 Ph.D. tutor specialist for branch Technical Cybernetics. Through his career he published more than 100 original research articles including over 30 peer reviewed journal papers. He is author and coauthor of more than ten books. He received several awards, among them the Siemens in Study of Drive Gear at Mobile Mount with Fuel Cell. His current research interests are focused on sensing, data processing algorithms, instruments for diagnosis and therapy of health corresponding with telemedicine and personal health care.*

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