

2009 Activity Report Summary of the ASGroup

During the period September 2008-November 2009 the AS Group continued its research in three areas of mobile systems: Quality of Service, Trust and Identity Management, and novel paradigms for mobile information management.

From the point of view of research projects, one project came to successful completion (Geo-Tags), and a new project was accepted (TRAINUTRI) in the domain of Ambient Assisted Living, and is scheduled to start early 2010. The groups also submitted as coordinator 3 project proposals in the 5th call of the 7th EU research framework, and participates in another 3 proposals. The results of these proposals were not available at the time of printing of this report.

From the point of view of personnel in November 2009 the group was composed of 7 persons, headed by Prof. Dimitri Konstantas, (who is since July 2007 Vice-Dean of the Social and Economic Science Faculty sharing his time between research and administration). In June 2009 Mme Katarzyna Wac defended her PhD thesis and gained a one year Post-Doc scholarship from FNRS, for CMU at the United States.

The Current projects of the group are .

<i>Project name</i>	<i>Support from</i>	<i>Start</i>	<i>End</i>	<i>Total Funding</i>
Geo-Tags	OFFT CTI	1-5-2007	30-4-2009	72.000 CHF
PlayMancer	EU 7 th FP	1-11-2007	30-10-2010	220.000 EUR
PERIMETER	EU 7 th FP	1-5-2008	30-4-2011	270.000 EUR
QoS prediction Service	SER	1-10-2008	30-9-2001	170.000 CHF
TMA	COST	1-2-2008	31-1-2011	- 0 -
TRAINUTRI	AAL	Early 2010	Early 2012	790.000 CHF

From the point of view of recognition of research results, the group published one PhD thesis and papers in international journals, conferences and book chapters (in addition to this technical report which is composed of early or revised versions of some the published papers, as well as unpublished papers (A list of the published work of the group is given at the end of the activity report).

Our research, nevertheless, is not performed on an isolated island. We have established active collaboration with a number of research institutes around the world, exchanging students and researchers, and working together towards common targets. This is reflected in the publications of the group, many of which are written in collaboration with researchers from other institutes.

List of Publications (October 2008 – November 2009)

Journals

1. Morin, J.-H., “*Exception Based Enterprise Rights Management : Towards a Paradigm Shift in Information Security and Policy Management*”, International Journal On Advances in Systems and Measurements, ISSN 1942-261x, vol. 1, no. 1, 2008, pp. 40-49.
2. Wac, K., Bargh, M., van Beijnum, B.J., Bults, R., Pawar, P., Peddemors, A. “*Power- and Delay-Awareness of Health Telemonitoring Services: the MobiHealth System Case Study*”, IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Wireless and Pervasive Communications in Healthcare, Volume 27, Issue 4, May 2009, Page(s):525 – 536.

PhD Thesis

3. Wac, K., “*Collaborative Sharing of Quality of Service-Information for Mobile Users*”, PhD Thesis, University of Geneva, Faculty of Social and Economic Sciences, Thesis No 693, June 2009, ISBN 978-2-88903-002-6.

Conferences

4. Seigneur, J.-M., “*Local ePolitics Reputation Case Study*”, in the Proceedings of the 7th International Conference on e-Society, IADIS, 2009.
5. Titi, X., and Seigneur, J.-M., “*Reputation-based Telecommunication Network Selection*”, in the Proceedings of the 7th International Conference on e-Society, IADIS, 2009.
6. Morin, J.-H., “*Towards Socially-Responsible Management of Personal Information in Social Networks*”, to appear in the Proceedings of the 6th International Conference on Social Software, BlogTalk 2009, Jeju, Korea, September 15-16, 2009, LNCS, Springer.
7. Wac, K., Bults, R., van Beijnum, B.J., et al. “*Mobile Patient Monitoring: the MobiHealth System*” (invited paper), 31st Intl Conf of the IEEE Engineering in Medicine and Biology Society (EMBC09), Minneapolis, Minnesota, US, September 2009.
8. Wac, K., “*Towards Quality of Service-Awareness of Mobile Healthcare Services*”, Intl eHealth, Telemedicine and Health ICT Forum (MedeTel09), ISfTEH Student's Videoconference Session, Luxemburg, April 2009.
9. Pawar, P., van Beijnum, B.J., Wac, K., Hermens, H., Konstantas, D., “*Towards Location Based QoS-Aware Network Selection Mechanism for the Nomadic Mobile Services*”, IEEE Consumer Communications and Networking Conference, Special Session on Beyond GPS - Where Navigation meets Consumer Communications (CCNC09), 10 - 13 January 2009, Las Vegas, Nevada, USA, IEEE Communications Society Press.

Books and Book Chapters

10. Seigneur, J.-M., and Slagell, A., “*Collaborative Security Technologies for Data Assurance Management: Building Systematic Trust*”, co-editors of the book, ISBN: 978-1-60566-414-9, IGI Global, 2009.

11. Seigneur, J.-M., “*Reputation Management Services*”, book chapter of “*Computer And Information Security Handbook*”, ISBN-13: 978-0-12-374354-1, Morgan Kauffman, Elsevier, 2009.
12. El Maliki, T., and Seigneur, J.-M., “*Identity Management Services*”, book chapter of “*Computer And Information Security Handbook*”, ISBN-13: 978-0-12-374354-1, Morgan Kauffman, Elsevier, 2009.
13. Wac, K., Prawar, P., Broens, T., van Beijnum, B.J., van Halteren, A. “*Using SOC in Development of Context-Aware Systems: Domain-Model Approach*”, chapter in: *Enabling Context-Aware Web Services: Methods, Architectures, and Technologies*, Quan Z Sheng, Jian Yu, Schahram Dustdar (eds), Chapman and Hall/CRC Publishers, ISBN 978-1-4398-0985-3
14. Wac, K., Hilario, M., van Beijnum, B.J., Bults, R., Konstantas, D. “*QoS Predictions Service: QoS Support for Proactive Mobile Services*”, chapter in: *Wireless Network Traffic and Quality of Service Support: Trends and Standards*, Thomas Lagkas Pantelis Angelidis (Eds), IGI Global Publishers, ISBN 978-1615207718
15. Wac, K., Bults, R., van Beijnum, Chen, H., B.J., Konstantas, D., “*Toward Mobile Web 2.0-based business methods: Collaborative QoS-information sharing for mobile service users*”, chapter in: *Advances in Electronic Business Series*, theme: *Mobile and Ubiquitous Commerce: Advanced E-Business Methods*, Milena M. Head, Eldon Y. Li (Eds), IGI Global Publishers, ISBN 978-1605663678
16. Morin, J.-H., “*Rethinking DRM Using Exception Management*”, chapter III, in *Handbook of Research on Secure Multimedia Distribution*, S. Lian and Y. Zhang (Eds), Information Science Reference (ISR), ISBN: 978-1-60566-262-6, IGI Global, March 2009.
17. Brogle, M., Heijenk, G., Braun, T. and Konstantas, D., (Eds), *Proceedings of the Third ERCIM Workshop on eMobility*, University of Twente, Enschede, The Netherlands, May 27 - 28, 2009, ISBN 978-90-365-2846-7.