

MULTIPOS

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List of Second Year Publications

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This document provides the list of second year publications, implemented as list of publications by the end of December 2014.

Disclaimer:

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Executive Summary

This document provides the list of second year publications, implemented as list of publications by the end of December 2014.

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MULTI-POS Publications List as of December 2014

1.1 Journal Articles

1. Anahid Basiri, Adam Winstanley, Pouria Amirian, "The Use of Quick Response (QR) codes in Landmark-Based Pedestrian Navigation", in *International Journal of Navigation and Observation*, vol. 2014, Hindawi, doi:10.1155/2014/897103, 2014.
2. Ossi A. Nykänen and Alejandro Rivero Rodriguez, "Problems in Context-Aware Semantic Computing," *Int. J. Interact. Mob. Technol.*, vol. 8, no. 3, pp. pp. 32–39, Jun. 2014.

1.2 Conference Papers, Book Chapters, etc.

3. Leitinger, E., M. Froehle, P. Meissner, and K. Witrisal, "Multipath-Assisted Maximum-Likelihood Indoor Positioning using UWB Signals", in *Proc. IEEE ICC 2014 Workshop on Advances in Network Localization and Navigation (ANLN)*, Sydney, June 10-14, 2014.
4. Anahid Basiri, Mike Jackson, Pouria Amirian, Amir Pourabdollah, Monika Sester, Adam Winstanley, Lijuan Zhang, Terry Moore, "OpenStreetMap Data Validation Using Rules Derived from Tracking Data", in *International Conference on Web-Age Information Management (WAIM)*, Macau, June 15-16, 2014. *OpenStreetMap in GIScience: Experiences, Research, Applications*, Lecture Notes in Computer Science LNCS 7418, Springer, ISSN: 1863-2246, Editors: J. Jokar Arsanjani, A. Zipf, P. Mooney, M. Helbich. 2014, (In Press)
5. Pouria Amirian, Anahid Basiri, Guillaume Gales, Adam Winstanley and John McDonald, "The Next Generation of Navigational Services using OSM data: the Integration of Augmented Reality and Graph Databases", in *International Conference on Web-Age Information Management (WAIM)*, Macau, June 15-16, 2014. *OpenStreetMap in GIScience: Experiences, Research, Applications*, Lecture Notes in Computer Science LNCS 7418, Springer, ISSN: 1863-2246, Editors: J. Jokar Arsanjani, A. Zipf, P. Mooney, M. Helbich. 2014, (In Press)
6. A. Shahmansoori, R. Montalbán, and G. Seco-Granados, "Optimal OFDM Pilot Sequences for Time-Delay and Channel Estimation Based on the Expected CRB for a Large Number of Subcarriers", in *Proc. IEEE international workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, June 23-25, 2014.
7. Jari Nurmi, Francescantonio Della Rosa, Elena-Simona Lohan, "MULTI-POS – Multi-technology Positioning Professionals Training Network," in *Proc. International Conference on Localization and GNSS (ICL-GNSS)*, Helsinki, Finland, June 24-26, 2014.
8. Anahid Basiri, Pedro Figueiredo e Silva, Elena Simona Lohan, Pekka Peltola, Chris Hill, Terry Moore, "Overview of Positioning Technologies from Fitness-to-Purpose Point of View", in *Proc. International Conference on Localization and GNSS (ICL-GNSS)*, Helsinki, Finland, June 24-26, 2014.
9. Enik Shytermeja, Axel Garcia-Pena, Olivier Julien, Proposed Architecture for Integrity Monitoring of a GNSS/MEMS System with a Fisheye Camera in Urban Environment," in *Proc. International Conference on Localization and GNSS (ICL-GNSS)*, Helsinki, Finland, June 24-26, 2014. **Best Paper Award.**
10. A. Shahmansoori, R. Montalbán, J. A. Lopez-Salcedo, and G. Seco-Granados, "Design of OFDM Sequences for Joint Communications and Positioning Based on the Asymptotic Expected CRB", in *Proc. International Conference on Localization and GNSS (ICL-GNSS)*, Helsinki, Finland, June 24-26, 2014.
11. Anahid Basiri and Pouria Amirian, Mike Jackson, "Automatic Point of Interests Detection Using Spatio-Temporal Data Mining Techniques over Anonymous Trajectories", Editors Murgante, B., Misra, S., Rocha, A.M.A.C., Torre, C., Rocha, J.G., Falcão, M.I., Taniar, D., Apduhan, B.O., Gervasi, O., *International Conference on Computational Science and Its Applications (ICCSA 2014)*, June 30 – July 3, 2014, Part IV, *Lecture Notes in Computer Science 8582*, ISBN 978-3-319-09152-5, pp. 185–198, 2014.
12. Anahid Basiri, Pouria Amirian, Adam Winstanley, "Use of Graph Databases in Tourist Navigation Application", Editors Murgante, B., Misra, S., Rocha, A.M.A.C., Torre, C., Rocha, J.G., Falcão, M.I., Taniar, D., Apduhan, B.O., Gervasi, O., *International Conference on Computational Science and Its Applications (ICCSA 2014)*, June 30 – July 3, 2014. Part V, *Lecture Notes in Computer Science 8583*, ISBN 978-3-319-09152-5, pp. 663-678, 2014.
13. Pouria Amirian, Anahid Basiri, and Adam Winstanley, "Evaluation of Data Management Systems for Geospatial Big Data", Editors Murgante, B., Misra, S., Rocha, A.M.A.C., Torre, C., Rocha, J.G., Falcão,

M.I., Taniar, D., Apduhan, B.O., Gervasi, O., International Conference on Computational Science and Its Applications (ICCSA 2014), June 30 – July 3, 2014. Part V, Lecture Notes in Computer Science 8583, ISBN 978-3-319-09152-5, pp. 185–198, 2014.

14. A. Shahmansoori, R. Montalbán, and G. Seco-Granados, "Effect of Channel Variability on Pilot Design for Joint Communications and Positioning in OFDM", in Proc. International Symposium on Wireless Communication systems (ISWCS), Barcelona, Spain, Aug 26-29 2014.

15. P. Silva, O. Daniel, J. Nurmi, and E.-S. Lohan, "Cyclostationary features of downsampled 802.11g OFDM signal for cognitive positioning systems," in Proc. International Symposium on Wireless Communication systems (ISWCS), Barcelona, Spain, Aug 26-29 2014.

16. F. Della Rosa, T. Paakki, G. Della Rosa, M. Pelosi, and J. Nurmi, "Hand-Grip Impact on Range-based Cooperative Positioning," in Proc. International Symposium on Wireless Communication systems (ISWCS), Barcelona, Spain, Aug 26-29 2014.

17. Anahid Basiri, Adam Winstanley, Pouria Amirian, Terry Moore, Chris Hill, "Spatial Uncertainty Management in Pedestrian Navigation", in Principle and Application Progress in Location-Based Services; Lecture Notes in Geoinformation and Cartography, Editors Chun Liu, Springer, ISBN 978-3-319-04027-1, Doi: 10.1007/978-3-319-04028-8, 2014.

18. M. Frohle, A. A. Zaidi, E. Strom, and H. Wymeersch, "Multi-step sensor selection with position uncertainty constraints," in IEEE Globecom Workshops (GC Wkshps), 2014, pp. 1439–1444.

19. M. Gan, P. Meissner, F. Mani, E. Leitinger, M. Frohle, C. Oestges, K. Witrisal, and T. Zemen, "Low-complexity sub-band divided ray tracing for UWB indoor channels," in IEEE Wireless Communications and Networking Conference (WCNC), 2014, pp. 305–310.

20. M. Gan, P. Meissner, F. Mani, E. Leitinger, M. Frohle, C. Oestges, K. Witrisal, and T. Zemen, "Calibration of indoor UWB sub-band divided ray tracing using multiobjective simulated annealing," in IEEE International Conference on Communications (ICC), 2014, pp. 4844–4849.

21. E. Leitinger, P. Meissner, M. Frohle, and K. Witrisal, "Performance bounds for multipath-assisted indoor localization on backscatter channels," in IEEE Radar Conference, 2014, pp. 0070–0075.

22. M. L. Rahman, P. Figueiredo e Silva, and E.-S. Lohan, "Cyclostationarity-based spectrum sensing properties for signals of opportunity," in International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob?), 2014, pp. 390–395.

23. A. Rivero-Rodríguez, H. Leppäkoski, and R. Piche, "Semantic labeling of places based on phone usage features using supervised learning," in Ubiquitous Positioning Indoor Navigation and Location Based Service (UPINLBS), 2014, 2014, pp. 97–102.

24. S. Sánchez-Naranjo, R. Ramos-Pollán, and F. A. González, "A Multicore Workflow for Inducing Data Driven GNSS Positioning Models," in CARLA HPC Latin American High Performance Computing Conference, 2014.

1.3 PhD Theses

(currently none)

1.4 Additional Publications and Presentations

25. E. Leitinger, M. Frohle, P. Meissner, and K. Witrisal, "Multipath-Assisted Maximum-Likelihood Indoor Positioning using UWB Signals", COST Action IC1004 Management Committee Meeting, Ferrara, Italy, Feb 5, 2014.

26. J. Raasakka, M. Orejas, "Analysis of Notch Filtering Methods for Narrowband Interference Mitigation," abstract in IEEE/ION PLANS, Monterey, CA, USA, May 5-8, 2014.