

**MULTI-POS**  
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*All MULTI-POS Publications*

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This document provides the list of all project publications.

**Disclaimer:**

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## Document Control

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**Executive Summary**

This document provides the list of all project publications.

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## MULTI-POS Publications List

### Books

#### In Press

1. **Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco Granados, and Ossi Nykänen (Ed.), Multi-Technology Positioning**, book to be published, Springer, 2016. *Book edited by the MULTI-POS supervisors and contributed by the MULTI-POS team in the following chapters:*
2. Elena-Simona Lohan, Henk Wymeersch, Ossi Nykänen, Jari Nurmi, and Gonzalo Seco-Granados, "Introduction and Book Structure," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
3. Elena-Simona Lohan, Jari Nurmi, Henk Wymeersch, Ossi Nykänen, and Gonzalo Seco-Granados, "MULTI-POS –Multi-Technology Training Professionals Training Network," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
4. Ondrej Daniel, Nunzia Giorgia Ferrara, Pedro Figueiredo e Silva, and Jari Nurmi, "Understanding the GNSS Signal Model," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
5. Susana María Sánchez-Naranjo, Nunzia Giorgia Ferrara, Maciej Jerzy Pánsnikowski, Jussi Raasakka, Enik Shytermeja, Raúl Ramos-Pollán, Fabio Augusto González Osorio, Daniel Martínez, Elena Simona Lohan, Jari Nurmi, Manuel Toledo, Ondrej Kotaba, and Olivier Julien, "GNSS Vulnerabilities," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
6. Enik Shytermeja, Maciej Jerzy Pánsnikowski, Olivier Julien, and Manuel Toledo, "GNSS Quality of Service in Urban Environment," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
7. Nunzia Giorgia Ferrara, Ondrej Daniel, Pedro Figueiredo e Silva, Jari Nurmi, and Elena Simona Lohan, "Multi-GNSS: facts and issues," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
8. Pekka Peltola and Terry Moore, "Towards Seamless Navigation," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
9. Pedro Figueiredo e Silva, Giorgia Ferrara, Ondrej Daniel, Jari Nurmi, and Elena-Simona Lohan, "Mapping the Radio World to Find Us," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
10. Arash Shahmansoori, Gonzalo Seco-Granados, and henk Wymeersch, "Survey on 5G Positioning," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
11. Markus Fröhle, Themistoklis Charalambous, Henk Wymeersch, Siwei Zhang, and Armin Dammann, "Formation Control of Multi-agent Systems with Location Uncertainty," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.
12. Anna Kolomijeca, "Positioning Technology Applications Related to Environmental Issues," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): Multi-Technology Positioning, Springer, 2016.

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13. Alejandro Rivero-Rodriguez and Ossi Nykänen, "Context Awareness for Semantic Mobile Computing," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.
  14. Anahid Basiri, Elena-Simona Lohan, and Terry Moore, "The Impact of GALILEO Open Service on Location Based Services Markets," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.
  15. Elena-Simona Lohan, Pedro Figueredo e Silva, Pekka Peltola, and Terry Moore, "Analytical Hierarchical Processes and their usefulness in Location Based Services," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.
  16. Luis Bausá Lopez and Niels van Manen, "DroneAlert: Autonomous Drones for Emergency Response," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.
  17. Elena-Simona Lohan, Jari Nurmi, Gonzalo Seco-Granados, Henk Wymeersch, and Ossi Nykänen, "MULTI-POS – Lessons Learnt from Fellows and Supervisors," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.
  18. Elena-Simona Lohan, Henk Wymeersch, Ossi Nykänen, Gonzalo Seco-Granados, and Jari Nurmi, "Conclusions," book chapter in Jari Nurmi, Elena-Simona Lohan, Henk Wymeersch, Gonzalo Seco-Granados, and Ossi Nykänen (Eds.): *Multi-Technology Positioning*, Springer, 2016.

## **Journal Articles**

### **2014**

19. 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.
20. Ossi A. Nykänen and Alejandro Rivero Rodriguez, "Problems in Context-Aware Semantic Computing," *Int. J. Interact. Mob. Technol.*, vol. 8, no. 3, pp. 32–39, Jun. 2014.

### **2015**

21. Meyer F, Wymeersch H, Frohle M and Hlawatsch F (2015), "Distributed Estimation with Information-Seeking Control in Agent Networks", *IEEE J. Sel. Areas Commun.*, 2015, Vol. PP(99), pp. 2439-2456.

### **2016**

22. Basiri A, Amirian P, Winstanley A, Marsh S, Moore T and Gales G (2016), "Seamless Pedestrian Positioning and Navigation Using Landmarks", *J. Navig.*, June, 2016. Vol. 69(1), pp. 24-40. Cambridge University Press.
23. Basiri, A.; Amirian, P.; Mooney, P. Using Crowdsourced Trajectories for Automated OSM Data Entry Approach. *Sensors* 2016, 16(9), 1510.
24. Basiri A, Jackson M, Amirian P, Pourabdollah A, Sester M, Winstanley A, Moore T and Zhang L (2016), "Quality assessment of OpenStreetMap data using trajectory mining", *Geo-spatial Inf. Sci.* Vol. 19(1), pp. 56-68. Taylor & Francis.
25. D. Alonso de Diego, G.N. Ferrara, J. Nurmi, E.S. Lohan, "Interference Mitigation in the E5a Galileo Band Using an Open-Source Simulator", in *InsideGNSS journal*, Jul/Aug 2016.
26. N.G. Ferrara, M. Pásnikowski, S. Sánchez-Naranjo, F.A. González, R. Ramos-Pollán, G. Seco-Granados, J.A. Lopez-Salcedo, D. Egea-Roca, M. Solé, M. Toledo, E.S. Lohan,

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- “Combined architecture for multi-dimensional signal quality enhancements in GNSS receivers”, in *InsideGNSS* magazine, Mar/Apr 2016.
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  28. Liu H, Meng X, Chen Z, Stephenson S and Peltola P (2015), "A closed-loop EKF and multi-failure diagnosis approach for cooperative GNSS positioning", *GPS Solutions*, Springer, Oct. 2016.
  29. A. Basiri, E.S. Lohan, T. Moore, C. Hill, P. Peltola, "Indoor Location Based Services Challenges, Requirements and Usability of Current Solutions," accepted to *Computer Science Review*, Elsevier, 2016.

## **Conference Papers, Book Chapters, etc.**

### **2014**

30. 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.
31. Arash 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.
32. 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.
33. 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.
34. 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.**
35. Arash 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.
36. 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.
37. 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.
38. 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



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39. Arash 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.
  40. 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.
  41. 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.
  42. 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.
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  47. 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.
  48. Alejandro Rivero-Rodriguez, 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.
  49. 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.

## **2015**

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51. Zhang, S., Fröhle, M., Wymeersch, H., Dammann, A. och Raulefs, R. (2015) Location-Aware Formation Control in Swarm Navigation, IEEE Globecom Workshops, 2015

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52. Anahid Basiri, P. Peltola, P. Figueiredo e Silva, E.S. Lohan, T. Moore, C. Hill, "Indoor Positioning Technology Assessment using Analytic Hierarchy Process for Pedestrian Navigation Services", in Proc. International Conference on Localization and GNSS (ICL-GNSS), Gothenburg, Sweden, June 2015.
  53. Amirian P, Basiri A, Van Loggerenberg F, Moore T, Lang T and Varga M (2015), "Intersection of Geospatial Big Data, Geocomputation and Cloud Computing", In EuroCarto2015.
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  56. Daniel O, Wymeersch H and Nurmi J (2015), "Hybrid Cooperative Positioning in Harsh Environments", In 2015 IEEE Globecom Work. (GC Workshops), pp. 1-6.
  57. E.S. Lohan, J. Talvitie, P. Figueiredo e Silva, H. Nurminen, S. Ali-Löytty, R. Piché, "Received Signal Strength models for WLAN and BLE-based indoor positioning in multi-floor buildings", in Proc. International Conference on Localization and GNSS (ICL-GNSS), Gothenburg, Sweden, June 2015.
  58. Fröhle M and Wymeersch H (2015), "On the Separation of Time Scales in Positioning", in Proc. International Conference on Localization and GNSS (ICL-GNSS), Gothenburg, Sweden, June 2015.
  59. Montasari R and Peltola P (2015), "Computer Forensic Analysis of Private Browsing Modes", In Glob. Secur. Saf. Sustain. Tomorrow's Challenges Cyber Secur.. London Vol. 534 Springer International Publishing.
  60. Montasari R, Peltola P and Evans D (2015), "Integrated Computer Forensics Investigation Process Model (ICFIPM) for Computer Crime Investigations", In Glob. Secur. Saf. Sustain. Tomorrow's Challenges Cyber Secur.. pp. 361. Springer.
  61. Nykänen O, Rivero-Rodriguez A, Pileggi P, Ranta PA, Kailanto M and Koro J (2015), "Associating Event Logs with Ontologies for Semantic Process Mining and Analysis", In Proc. 19th International Academic Mindtrek Conference. New York, NY, USA, pp. 138-143. ACM.
  62. P.M. Figueiredo e Silva and E.S. Lohan, "Room-level indoor positioning with Wi-Fi and RFID fingerprints", 23rd International Conference on Advances in Geographic Information Systems: ACM SIGSPATIAL, Nov 2015
  63. P.M. Figueiredo e Silva, A. Basiri, E.S. Lohan, J. Pinchin, C. Hill, T. Moore, "On the Impact of Intra-System Interference for Ranging and Positioning with Bluetooth Low Energy", 23rd International Conference on Advances in Geographic Information Systems: ACM SIGSPATIAL, Nov 2015
  64. P.M. Figueiredo e Silva, M.L. Rahman, G. Seco-Granados, and E.S. Lohan, "Detection of cyclic frequencies in a mixed CDMA and OFDM signal for cognitive positioning systems", in Proc. of IEEE ICL GNSS, Sweden, Jun 2015
  65. Pileggi P, Rivero-Rodriguez A and Nykänen O (2015), "Towards Traditional Simulation Models of Context Using Process Mining", In Int. Conf. Comput. Intell. Commun. Networks.
  66. Pileggi P, Rivero-Rodriguez A and Nykänen O (2015), "Using Context Overlays to Analyse the Role of a priori Information with Process Mining", In Int. Syst. Conf., pp. 639-644. IEEE.
  67. Rivero-Rodriguez A, Pileggi P and Nykänen O (2015), "An Initial Homophily Indicator to Reinforce Context-Aware Semantic Computing", In Int. Conf. Comput. Intell. Commun. Networks. Riga

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68. Rivero-Rodriguez A, Pileggi P and Nykänen O (2015), "Social Approach for Context Analysis: Modelling and Predicting Social Network Evolution Using Homophily", In *Model. Using Context.* (9405), pp. 513-519. Springer International Publishing.
  69. Arash Shahmansoori, G. Seco-Granados, H. Wymeersch, "Robust power allocation for OFDM wireless network localization", *Proc. IEEE International Conference on Communications (ICC), Workshop on Advances in Network Localization and Navigation*, Jun 08 2015
  70. Shytermeja E, Garcia-Pena A and Julien O (2015), "GNSS Signal Processing and Positioning Performance in Urban Environments", In *Annu. Baska GNSS Conf. R. Inst. Navig.*.
  71. W. Wang, P.M. Figueiredo e Silva, and E.S. Lohan, "Investigations on mobility models and their impact on indoor positioning, 23rd International Conference on Advances in Geographic Information Systems: ACM SIGSPATIAL, Nov 2015
  72. O. Daniel and E. S. Lohan and J. Nurmi, "Relaxed direct position estimation as strategy for open-loop GNSS receivers", *Proc. International Conference on Localization and GNSS (ICL-GNSS)*, Gothenburg, Sweden, June 2015.
  73. Arash Shahmansoori, G. E. Garcia, G. Destino, G. Seco-Granados, H. Wymeersch, "5G Position and Orientation Estimation through Millimeter Wave MIMO", *Proc. IEEE Globecom (Workshop on Wireless Networking, Control and Positioning for Unmanned Autonomous Vehicles)*, Dec 2015.

## **2016**

74. Jari Nurmi and Elena-Simona Lohan, "MULTI-POS: Marie Curie Network in Multi-technology Positioning," in *Proc. Design, Automation & Test in Europe (DATE 2016)*, Dresden, Germany, March 14-18, 2016.
75. Fröhle, M., Muppirisetty, L., and Wymeersch, H. (2016) Channel gain prediction for multi-agent networks in the presence of location uncertainty, *ICASSP, 2016, Shanghai, China*
76. Daniel O, Raasakka J, Peltola P, Fröhle M, Rivero-Rodriguez A, Wymeersch H, Nurmi J, (2016), "Blind sub-Nyquist GNSS signal detection", In *2016 IEEE Int. Conf. Acoust. Speech, Signal Process. (ICASSP)*, March 2016., pp. 1-5.
77. N.G. Ferrara, J. Nurmi and E.S. Lohan, "Multi-GNSS analysis via Spectracom constellations", in *Proc. of the International Conference on Localization and GNSS (ICL-GNSS 2016)*, Barcelona, Spain, June 2016.
78. A. Kolomijeca, E.S. Lohan, J.A. Lopez-Salcedo, and G. Seco-Granados. GNSS applications: personal safety concerns. *Proc. of the International Conference on Localization and GNSS (ICL-GNSS 2016)*, Barcelona, Spain, June 2016.
79. P. Figueiredo e Silva and E.S. Lohan, "Performance Considerations for Positioning with Signals of Opportunity", in *Proc. of the International Conference on Localization and GNSS (ICL-GNSS 2016)*, Barcelona, Spain, June 2016.
80. D. Alonso de Diego, N.G. Ferrara, J. Nurmi, E.S. Lohan, "Simulink-based open-source simulator for the narrowband interference mitigation in E5a Galileo band", in *Proc. of ESA Colloquium on scientific and fundamental aspects of Galileo*, Oct 2016, Germany
81. N.G. Ferrara, M. Pánsnikowski, S. Sánchez-Naranjo, F.A. González, R. Ramos-Pollán , G. Seco-Granados, J.A. Lopez-Salcedo, D. Egea-Roca, M. Solé, M. Toledo, E.S. Lohan, "Combined architecture for multi-dimensional signal quality enhancements in GNSS receivers", in *Proc. of ESA Colloquium on scientific and fundamental aspects of Galileo*, Oct 2016, Germany.
82. Amirian P and Basiri A, "Landmark-Based Pedestrian Navigation Using Augmented Reality and Machine Learning", In *Prog. Cartogr.*, pp. 451-465. Springer International Publishing, 2016.

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## **PhD & Licentiate Theses**

### **2016**

83. Markus Fröhle, Channel Gain Prediction for Cooperative Multi-Agent Systems, Licentiate thesis, Chalmers university of technology, 2016.

## **Additional Publications and Presentations**

### **2014**

84. E. Leitinger, M. Froehle, P. Meissner, and K. Witrissal, "Multipath-Assisted Maximum-Likelihood Indoor Positioning using UWB Signals", COST Action IC1004 Management Committee Meeting, Ferrara, Italy, Feb 5, 2014.
85. 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.

## **Submissions in Review**

86. A. Kolomijeca, E.S. Lohan, J.A. Lopez-Salcedo, and G. Seco-Granados. Market opportunities for next generation satellite positioning systems: end-user preferences. Submitted to The journal of Global Positioning Systems, 2016.
87. Giorgia Ferrara, Henk Wymeersch, Elena-Simona Lohan, and Jari Nurmi, "A Comparison of Bayesian Localization Methods in the Presence of Outliers," submitted to IEEE International Conference on Communications (ICC), Ad-Hoc and Sensor Networking Symposium, Paris, France, May 21-25, 2017.