

# Yohan Chon

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## Bibliography

Yohan Chon is currently a Ph.D. candidate in computer science, Yonsei University, Korea, where he received his B.S. and M.S. degrees in 2009 and 2011, respectively. His research interests include mobile sensing systems, human mobility prediction, and context-aware computing.

## Education

MS, Computer Science, Yonsei University, Seoul, Korea, 2011.

BS, Computer Science, Yonsei University, Seoul, Korea, 2009.

## Publications

### *International Conference (5)*

**Y. Chon**, N.D. Lane, F. Li, F. Zhao, H. Cha, “Automatically Characterizing Places with Opportunistic CrowdSensing using Smartphones,” in *Proceeding of 14th International Conference on Ubiquitous Computing (UbiComp’12)*, 2012, ACM, Pittsburgh, USA.

**Y. Chon**, H. Shin, E. Talipov, H. Cha, “Evaluating Mobility Models for Temporal Prediction with High-Granularity Mobility Data,” in *Proceeding of 10th IEEE International Conference on Pervasive Computing and Communications (PerCom’12)*, 2012, IEEE, Lugano, Switzerland. [[Slide](#)]

**Y. Chon**, E. Talipov, H. Shin, H. Cha, “Mobility Prediction based Smartphone Energy Optimization for Everyday Location Monitoring,” in *Proceeding of 9th ACM Conference on Embedded Networked Sensor Systems (SenSys’11)*, 2011, ACM, Seattle, WA, USA. pp. 82-95. [[at ACM Library](#)] [[Slide](#)]

C. Yoon, **Y. Chon**, H. Cha, “PION: Human Mobility-based Service Provisioning Framework for Smartphone Users,” in *Proceeding of 9th Annual IEEE Communications Society Conference on Sensor, Mesh, and Ad Hoc Communications and Networks (SECON’12)*, 2012, IEEE, Seoul, Korea.

H. Shin, **Y. Chon**, K. Park, H. Cha, “FindingMiMo: Tracing a Missing Mobile Phone using Daily Observations,” in *Proceeding of 9th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys’11)*, 2011, ACM, Washington, DC, USA. pp. 29-42. [[at ACM Library](#)] [[Slide](#)]

### *International Journal (5)*

**Y. Chon**, E. Talipov, H. Cha, “Autonomous Management of Everyday Places for Personalized Location Provider,” *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews (SMCC)*, 2011. [[at IEEEExplore](#)]

**Y. Chon**, H. Cha, “LifeMap: A Smartphone-based Context Provider for Location-based Service,” *IEEE Pervasive Computing*, vol. 10, no. 2, pp. 58-67, April-June. 2011. [[at IEEEExplore](#)]

E. Talipov, **Y. Chon**, H. Cha, “Content Sharing Over Smartphone-based Delay Tolerant Networks,” *IEEE Transactions on Mobile Computing (TMC)*, 2012. [[at IEEEExplore](#)]

H. Shin, **Y. Chon**, H. Cha, “Unsupervised Construction of an Indoor Floor Plan using a Smartphone,” *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews (SMCC)*, 2011. [[at IEEEXplore](#)]

Y. Kim, **Y. Chon**, H. Cha, “Smartphone-based Collaborative and Autonomous Radio Fingerprinting,” *IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications and Reviews (SMCC)*, vol. 42, no. 1, pp. 112-122, Jan. 2012. [[at IEEEXplore](#)]

## Research Experiences

### *Human Mobility Learning and Prediction*

“Development of a Human-centric Mobile Sensing Framework Exploiting Human Mobility Patterns,” funded by **Microsoft Research Asia**, Project Leader, April 2011-March 2012

“Development of an iPhone-based Seamless Location Provider for Advanced Location-based Service,” funded by Ministry of Education, Science and Technology, Korea, Project Leader, March 2010-August 2010

### *Inertial Sensor-based Pedestrian Tracking*

“Smartphone-based Indoor Pedestrian Tracking and Floor-Plan Construction,” funded by LG Electronics, December 2010-November 2011

“Seamless Mobile Node Localizations based on Sensor-Communication Fusion Technology,” funded by Ministry of Education, Science and Technology, Korea, May 2009-December 2010

## Awards and Fellowships

Microsoft Research Asia Fellowship, Microsoft Research Asia, 2011

ACM HotPlanet 2011 [Mobility Data Contest](#) sponsored by Google, 1st Prize [[Slide](#)]

Global Ph.D. Fellowship, Ministry of Education, Science and Technology, Korea, 2011-2012.

Teaching Assistant, Yonsei University, 2010.

Research Assistant, Yonsei University, 2009-2010.

Student Scholarship, Yonsei University, 2003, 2007, 2008.

## Teaching Experience

Engineering Information Processing, TA for Programming Practice, Spring, Fall, Winter 2010, Yonsei University.