

Atsushi NaraName
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Professional Preparation

Shimane University (Japan)	Environmental Engineering	B.S.	2000
University of Utah	Geography	M.S.	2005
Arizona State University	Geography	Ph.D.	2011
University of Oklahoma	Geographic Information Science		2011

Appointments

2014-	Assistant Professor, Geography, San Diego State University
2012-14	Research Scientist, Center for Spatial Analysis, University of Oklahoma
2011-12	Research Associate/Lecturer, Geography, University of Maryland College Park
2010	Research Scientist, Engineering, University of Tokyo (Japan)
2008-10	Research Scientist, Digital Human Research Center, National Institute of Advanced Industrial Science and Technology (Japan)
2006	GIS Analyst, Urban & Environment Planning: Research and Consulting (Japan)

Publications

(i) Five most closely related to proposal project

- Yuan, M., and Nara, A. (Accepted). "Space-Time Analytics of Tracks for the Understanding of Patterns of Life." In M.-P. Kwan, D. Richardson, D. Wang, C. Zhou (eds), *Space-Time Integration in Geography and GIScience: Research Frontiers in the U.S. and China*, Dordrecht: Springer.
- Yuan, M., Nara, A., and Bothwell, J. (2014). "Space-Time Representation and Analytics." *Annals of GIS*, 20(1), pp.1-9.
- Torrens, P.M., Nara, A. (2012). "Polyspatial agents for multi-scale urban simulation and regional policy analysis." *Regional Science Policy and Practice*, 4(4), pp.419-445.
- Torrens, P.M., Nara, A., Li, X., Zhu, H., Griffin, W.A., and Brown, S. (2012). "An extensible simulation environment and movement metrics for testing walking behavior in agent-based models." *Computers, Environment and Urban Systems*, 36(1), pp.1-17.
- Nara, A., Izumi, K., Iseki, H., Suzuki, T., Nambu, K., and Sakurai, Y. (2011). "Surgical workflow monitoring based on trajectory data mining." In T. Onoda, D. Bekki, S. Tojo, Y. Ohsawa, T. Isozaki (eds), *New Frontiers in Artificial Intelligence*, pp.283-291.

(ii) Five other significant publications

- Izumi, K., Nara, A., Iseki, H., Suzuki, T., Nambu, K., Chinzei K., Murakawa, M., and Sakanasi, H. (2011). "Workflow monitoring by data gathering from a surgical room and surgical strategic desk." *The Journal of the Institute of Electronics, Information and Communication Engineers*, 94, 4, pp.288-293.
- Nara, A., and Torrens, P.M. (2011). "Trajectory Data Mining: Classification and Spatio-Temporal Visualization of Mobile Objects." *Proceedings of the GeoComputation 2011*, University College London, UK, July 20-22.

Nara, A., Izumi, K., Iseki, H., Suzuki, T., Nambu, K., and Sakurai, Y. (2009). "Surgical workflow analysis based on staff's trajectory patterns." *Proceedings of the 1st Workshop on Modeling and Monitoring of Computer Assisted Interventions (M2CAI)*.

Torrens, P.M. and Nara, A. (2007). "Modeling gentrification dynamics: A hybrid approach." *Computers, Environment and Urban Systems*, 31, pp.337-361.

Nara, A. and Torrens, P.M. (2007). "Spatial and temporal analysis of pedestrian egress behavior and efficiency." *Proceedings of Association of Computer Machinery (ACM) Advances in Geographic Information Systems*, pp.284-287.

Synergistic Activities

Editorial Board Member of *Global Review of Economics* 2013-

Collaborators & Other Affiliations

(i) Collaborators

J. Bothwell, K. Marguerite, M. Yuan: Center for Spatial Analysis, University of Oklahoma; P. Torrens: Department of Geographical Sciences, University of Maryland College Park; W. Griffin, X. Li, H. Zhu: Arizona State University; S. Brown: Idaho National Laboratory; K. Izumi: University of Tokyo, Japan; H. Iseki, T. Suzuki: Tokyo Women's Medical University, Japan; K. Namubu, Y. Sakurai: Toshiba Medical Systems Corporation, Japan; K. Chinzei, M. Murakawa, H. Sakanashi: National Institute of Advanced Industrial Science and Technology, Japan

(ii) Graduate and Postdoctoral Advisors

M. Yuan: Center for Spatial Analysis, University of Oklahoma; P. Torrens: Department of Geographical Sciences, University of Maryland College Park; W. Griffin, M. Kuby, S. Myint: Arizona State University; H. Miller: Ohio State University; B. Xu: Tsinghua University, China