



Kendall E. Nygard is a full professor of computer science at North Dakota State University (NDSU), Fargo, North Dakota. He earned his PhD degree at Virginia Polytechnic Institute. He has fulfilled many roles at NDSU and the North Dakota University System, including Department Chair, faculty representative on the State Board of Higher Education, and Presiding officer of the NDSU University Senate. He has advised 24 PhD students and more than 150 Master of Science students.

In research, he been awarded more than 50 grants and contracts and is widely published. His research areas include applications to the smart electrical grid, cooperative control of unmanned air vehicles, configuration and security in wireless sensor networks, technology-related issues in economic development issues in poor countries, and the role of non-technical skills in software development carried out in teams.

From August, 2013 through August, 2014 Dr. Nygard served in Washington D. C. as a Jefferson Science Fellow and Senior Science Adviser for the U. S. Department of State and the U. S. Agency for International Development (USAID). At USAID he served on the Data and Analytics team of the Global Development Lab, working on visualization and analytics for big data problems. He is currently serving as a Virtual Fellow for the U. S. Department of State, working on data-centric modeling in economic development.

Some highlights of the work of Dr. Nygard at IARIA conference are as follows:

Panelist or Panel Chair:

Awareness and Adaptation in Service Computation and Delivery, Lisbon, 2010

Future Challenges in Computing," Future Computing Conference, Rome, 2011

Computing Methods on Adaptability, Venice, 2014

Patterns of Adaptation: From Species to Autonomous Systems, Nice, 2015

Publications:

Gagneja, K., X. Du, and K. Nygard, Enhanced Robust Routing Amongst Sensor Nodes in Heterogeneous Sensor Networks, Proceedings of the Future Computing Conference, Athens, November, 2009

Ranganathan, P. and K. Nygard, An Optimal Resource Assignment Problem in a Smart Grid, Proceedings of the Future Computing Conference, Lisbon, 2010 (best paper award)

Zhao, J., and K. Nygard, A Dendritic Cell Inspired Security System in Wireless Sensor Networks, Proceedings of the Future Computing Conference, Lisbon, 2010

Jingjun Zhao, Kendall E. Nygard, A Two-Phase Security Algorithm for Hierarchical Sensor Networks, Proceedings of Third International Conference on Future Computational Technologies and Applications, Rome, 2011

H. Bu and K. Nygard, Adaptive Scheduling of Smart Home Appliances Using Fuzzy Goal Programming, Proceedings of the Sixth International Conference on Adaptive and Self-Adaptive Systems and Applications, Venice, May, 2014

W. Sun, Y. Su, Z. Zhang, J. Tang, and K. Nygard, Specification and Verification of Garbage Collector by Java Modeling Language, Proceedings of the Future Computing Conference, Nice, 2015

Keynote Speaker:

Research Directions in Sensor Networks, IARIA International InfoSys Conference, Sint Maarten, 2012

Advisory Chair or Program Committee:

ComputationWorld Future Computing Conferences: Lisbon, 2010; Rome, 2011; Sint Maarten, 2012; Valencia, 2013; Venice, 2014, Nice, 2015