Autonomous Driving in Urban Environments and Related Research Activities in SNU

Tuesday April 7
2 – 3 pm
EEB 110

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Abstract:
In SNU, researchers have been investigating technologies vital to realize autonomous driving in urban environments. A critical component of autonomous driving in the urban environment is the ability to simultaneously seek multiple objectives such as avoiding obstacles and/or deciding optimal action policy. Furthermore, the autonomous vehicle should be robust to uncertainties including but not limited to sensors noise or unpredictable movement of moving objects. This talk will discuss several key issues for future autonomous driving in urban environments and briefly introduce approaches taken in SNU. Additionally, selected research activities in the Intelligent Vehicle IT (IVIT) Research Center in SNU for the development of autonomous vehicle technologies will be introduced.

Bio:
Seung-Woo Seo is the professor in the Department of Electrical and Computer Engineering in Seoul National University, Seoul, Korea, and the Director of Intelligent Vehicle IT (IVIT) Research Center funded by Korean Government and Automotive Industries. He received his Ph.D. from Pennsylvania State University, University Park, USA, and B.S. & M.S. degrees from Seoul National University, Seoul, Korea, all in Electrical Engineering. He was with the Faculty of the Department of Computer Science and Engineering, Pennsylvania State University, and served as a Member of the Research Staff in the Department of Electrical Engineering in Princeton University, Princeton, NJ. In 1996, he joined the Faculty of Seoul National University. He has served as Chair or a Committee Member in various international conferences and workshops including INFOCOM, GLOBECOM, PIMRC, VTC, MobiSec, Vitae, ICEIC, etc. He is the general co-chair of IEEE Intelligent Vehicle Symposium in 2015. He also served for five years as a Director of the Information Security Center in Seoul National University. His research areas include automated driving, vehicular communication & network security, and system optimization.

Host: Petros Ioannou