

Curriculum Vitae for Young Min Kim

Full Name: Young Min KIM

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Current Course: IF49

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Academic Qualifications

Bachelor of Science 03/1992 - 02/1999

The University of Seoul

Master of Science 03/1999 - 02/2001

The University of Seoul

PhD of Science 03/2002 - 02/2007

The University of Seoul

Published Research

Journal papers (Research book chapter??)

- Youngmin Kim, Sanghyun Ahn and Jaehwoon Lee, "An Efficient Multicast Data Forwarding Scheme for Mobile Ad Hoc Networks", LNCS 3391, 2005.
(http://link.springer.com/chapter/10.1007%2F978-3-540-30582-8_53)
- Youngmin Kim, Sanghyun Ahn, Yujin Lim, Hyun Yu, Jaehwoon Lee and Jongwon Choe, "Load Balancing Mechanisms in the MANET with Multiple Internet Gateways", LNCS 3961, 2006. (http://link.springer.com/chapter/10.1007%2F11919568_21)
- Youngmin Kim, Sanghyun Ahn, Hyun Yu, Jaehwoon Lee and Yujin Lim, "Proactive Internet Gateway Discovery Mechanisms for Load-Balanced Internet Connectivity in MANET", LNCS 5200, 2008.
(http://link.springer.com/chapter/10.1007%2F978-3-540-89524-4_29)

* copy of the published article is included after the CV

Conference papers

- Youngmin Kim, Sanghyn Ahn, Youngju Lee, Jaehoon Jeong and Jaehwoon Lee, "Design and Implementation of IPV6 Address Autoconfiguration for AODV in Mobile Ad Hoc Networks", UKC 2005, Aug. 2005.
- Youjun Choi, Daejun Kang, Sunjong Lee and Youngmin Kim, "The Autonomous Platoon Driving System of the On Line Electric Vehicle", ICROS-SICE International Joint Conference 2009, Aug. 2009.

Internet Engineering Task Force (IETF) - Internet Drafts

- draft-kim-autoconf-gatewaysel
(<https://datatracker.ietf.org/doc/draft-kim-autoconf-gatewaysel>), 2007.
- draft-ahn-manet-multigateway
(<https://datatracker.ietf.org/doc/draft-ahn-manet-multigateway>), 2005

Previous Grants/Scholarships/Awards

None

Relevant Research Experience and Employment

KAIST (South Korea)

Senior Contract Researcher

March 2007 – December 2009

- A lead role in a team developing a new project to prototype electric vehicles charged wirelessly by induction from road including writing project proposals. It was a US\$25 million project supported by the S. Korean government.
- Designed and developed platoon control for electric vehicles through wireless ad hoc network.
- Developed status viewer of electric vehicles to show the information to developers and users.

Accomplishments

- Played an important role in getting Korean government funding documenting project proposal and developing platoon control for electric vehicles.
- Filed 6 patents for wireless charging electric vehicle as International patents (PCT).
(You can find my 6 patents from <https://www.google.com/patents/> with search keyword of "Youngmin Kim Dongho Cho")

CB Aerospace (Brisbane)

Systems Engineering Contractor

November 2014 ~ Present

- Developing software for data gathering from sensor such as GPS and IMU modules based on Yocto project and Robot Operating System (ROS)
- Control programming of PWM input/output and GPIO on Arduino environment (ATMega 2560)
- Auto configuration of target and host computer using Python Fabric

Accomplishments

- Made a robust and easy-to-debug communication protocol to secure 100 Hz working in real-time processing.