

Curriculum Vitae

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Status:

- **Associate Professor.** Department of Computer Science and Engineering, Sungkyunkwan University, Republic of Korea
 - My main research area is Internet of Things (IoT). IoT is a networked system that interacts with physical, real environments, including Vehicular Networks, Security, Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and the Future Internet. The current research includes (i) Vehicular networking: MAC protocols, routing protocols, transport protocols, driving safety protocols. (ii) The support of the safe and efficient navigation services in transportation systems (e.g., road networks); (iii) The efficient protection of pedestrians, drivers, and passengers in transportation systems (e.g., road networks and subways) in emergency situations (e.g., accidents and disasters); (iv) SDN-based security services in NFV environments (YANG data models and security policy translation in Interface to Network Security Functions (I2NSF)); (v) Indoor Positioning Service (IPS) based on smartphones for IoT devices; (vi) DNS name autoconfiguration of IoT devices; (vii) Security to make IoT more reliable and trustable under harsh conditions, such as IoT nodes' malfunction and adversaries' attacks.
 - My recent research includes Intent-Based Networking (IBN) to enable the network and security services in SDN/NFV environments with the network and security policy translation technology. I am working for the network automation technology using IBN and Blockchain on top of the I2NSF framework.
 - I am leading IoT Lab at Sungkyunkwan University: <http://iotlab.skku.edu/>

Education:

- **University of Minnesota, Minneapolis, MN**
Department of Computer Science and Engineering
Ph.D. – December 2009, GPA: 3.772/4.0
Thesis Title - Wireless Sensor Networking for Intelligent Transportation Systems
Advisor - Prof. David H.C. Du and Prof. Tian He
- **Seoul National University, Seoul, Korea**
School of Electrical Computer Engineering
M.S. – February 2001, GPA: 3.73/4.3
Thesis - Design and Implementation of One-way IP Performance Measurement Tool
Advisor - Prof. Yanghee Choi
- **Sungkyunkwan University, Suwon, Korea**
Department of Information Engineering
B.S. – February 1999, GPA: 3.8/4.5 (Upper: 4.27/4.5)
Thesis - Location Management for Searching in Mobile Communication
Advisor - Prof. Youngik Eom

Research Experience:

- **2012.9-2020.1: Sungkyunkwan University, Republic of Korea**

- **Research on Cloud Security:** Cloud-Based Security Service Systems. In an IITP (Institute for Information & Communications Technology Promotion) project, I worked for the cloud-based security service systems in the cooperation with the IETF standardization for I2NSF (Interface to Network Security Systems). I have developed the framework and interfaces for the I2NSF system in NFV (Network Functions Virtualization) based on OpenStack. This I2NSF system facilitates the automation of security services according to a user's security policy through a security policy translator, which translates a high-level security policy into a low-level security policy. The network security functions (e.g., firewall, web filter, deep packet inspection, anti-virus, and DDoS attack mitigation) can be configured and managed by the security controller in the I2NSF system with a network configuration protocol called NETCONF and a data modeling language called YANG.
- **Research on Internet of Things (IoT):** Configuration and Management of IoT Devices. I worked for the DNS-based name autoconfiguration of IoT devices for the remote control and monitoring of IoT devices in both IPv6 and IPv4 networks. Also, I worked for the secure DNS name autoconfiguration with NFC-based IoT device authentication. In addition, I researched on the indoor localization of IoT devices by using a user's smartphone as a mobile anchor and measuring the distance between the smartphone and an IoT device through wireless communication signal strength measurement. For an indoor localization and tracking system, I developed a BLE beacon-based localization scheme where a smartphone calculates the signal strength of the BLE beacon messages from the surrounding beacons. I worked also for the device-free human counting in indoor environments by measuring CSI (Channel State Information) of WiFi APs and receivers.
- **Research on Vehicular Networks:** Vehicular Networking and Applications. In NRF (National Research Foundation of Korea) projects, I worked for the vehicular networking and applications for vehicular networks. The vehicular networking research includes MAC protocol, data forwarding systems, transport layer protocol, IPv6 neighbor discovery, and IPv6 mobility management. These vehicular networking protocols can be used to support the cooperation among self-driving vehicles for driving safety. The vehicular application research includes self-adaptive navigation systems, context-aware navigator, and pedestrian protection system for driving safety and efficiency. Also, I worked for the Internet Standardization for IPWAVE (IP Wireless Access in Vehicular Environments) in the IETF such as IPWAVE problem statement, vehicular neighbor discovery, and vehicular mobility management.
- **2010.1-2012.7: Brocade Communications Systems, Plymouth, MN, USA**
 - **Engineering:** IPsec Design and Implementation. In this project, I worked for the design and implementation of IPsec in IPv4 and IPv6. Especially, I worked on the Cavium network protocol stacks to efficiently support the Internet Key Exchange for IPsec. Also, I worked for the Internet Standardization for IPv6 DNS Configuration in the IETF.
 - **Research:** Vehicular Cyber-Physical Systems for Road Networks. I researched on Vehicular Cyber-Physical Systems for Road Networks, such as Road Sensor Networks and Vehicular Networks. Especially, I worked for the trajectory-based multicast protocol for the efficient data sharing in vehicular networks. Traffic Control Center maintains the trajectories of the vehicles moving in road networks for the localization of vehicles. It allows the infrastructure nodes (i.e., APs and Relay Nodes) to be able to forward data packets to the moving multicast group vehicles with their trajectory information. Also, I worked for the delay-bounded-and-reliable data dissemination architecture for vehicular networks, using the trajectories of vehicles and Relay Nodes as temporary packet holders.
- **2004.9-2009.12: Department of Computer Science, University of Minnesota, USA**
 - **2008.5-2009.12:** Data Forwarding in Vehicular Ad-hoc Networks (VANET) - funded by National Science Foundation (NSF). In this project, I researched on a data forwarding in vehicular networks. I investigated a data forwarding using both individual vehicle trajectory and vehicular traffic statistics in road networks. This work was published in IEEE ICDCS'09 and IEEE Transactions on Parallel and Distributed Systems (TPDS) as Spotlight Paper. I worked for a data forwarding scheme for the infrastructure-to-vehicle

data delivery, considering vehicle trajectory and vehicular traffic statistics. This work was published in IEEE ICDCS'10 and IEEE Transactions on Mobile Computing (TMC) as Spotlight Paper.

- **2006.5-2008.4:** Sensor Networking Project for Intelligent Transportation Systems - funded by Digital Technology Center (DTC), University of Minnesota and National Science Foundation (NSF). In this project, I have researched on the sensor networking for the intelligent transportation systems, such as road networks. I designed and published the Autonomous Passive Localization system (called APL) for wireless sensors deployed on road networks. I proposed and published a vehicle tracking algorithm using minimal tracking area (called minimal contour) in order to save sensor energy. I also researched on a road surveillance system (called VISA) for the road networks using the characteristics of road networks. These three projects were published in IEEE Infocom conferences.
- **2005.5-2006.5:** Intelligent Storage based on Object-based Storage Device (OSD), DISC Project - funded by US Industry (such as Sun Microsystems and StorageTek) and Korean Government Research Institute (i.e., ETRI). In this project, I implemented the communications and security modules (such as the security manager and policy manager) for OSD based on ISO T10 specification. The implementation has been publicly released in [SourceForge.net](http://sourceforge.net/projects/disc-osd/) (<http://sourceforge.net/projects/disc-osd/>) in 2007 and the paper related to the implementation has been published to a storage conference called MSST in 2006.
- **2004.8-2006.5:** Simulation and Modeling for Storage Area Network (SIMON), SIMON Project - funded by US Navy. In this project, I designed and implemented a simple version of SIMON simulator in 2004. With the simulation and real experiment, we proved the validity of the SIMON concept. We also worked for the hybrid simulation approach for the SIMON simulator.
- **2001.2-2004.8: Electronics and Telecommunications Research Institute (ETRI), Korea**
Research Staff Member – Next Generation Internet Standards Research Team
 - **2002.1-2004.8:** Project titled IPv6 Auto-Configuration Networking Technology Standardization (6ANTS). In this project, we developed and implemented basic routing protocol and auto-configuration technology for auto-networking in IPv6 mobile environments, such as IPv6 mobile ad hoc network (MANET) and mobile network (NEMO). The auto-configuration technology consists of the IPv6 unicast address auto-configuration, IPv6 multicast allocation, multicast DNS, and service discovery. Especially, I have led in the development of the auto-configuration technology and ad hoc routing protocols for IPv6 mobile ad hoc networks. Also, I have developed wireless mobile router based on MPC855T board and embedded linux with other company called CREWAVE for MANET testbed. The results of this project have been being standardized in IETF (Internet Engineering Task Force).
 - **2001.2-2001.12:** Project titled IPv6 Network and Application Testbed (6NEAT). In this project, we implemented IPv6 applications, such as videoconferencing tools and tested them over Trans-Eurasia Information Network (TEIN) with several European countries such as University College London (UCL). Also, we participated in 6WINIT project as one of the international partners, of which the purpose is to validate the introduction of the new mobile wireless internet in Europe. I designed and implemented Active Measurement Tool (AMTv6) for measuring one-way IP performance metrics in IPv6 network. I also managed the nation-wide IPv6 testbed network called 6Bone-KR and performed the test of our prototype implementation in this network.
- **1999-2000: Department of Computer Engineering, Seoul National University, Korea**
Research Assistant – Multimedia & Computer Communications Lab., Prof. Yanghee Choi
 - **2000.5-2000.11:** Project titled Development of One-way IP Performance Measurement Tool, Active Measurement Tool (AMT). In this project, we developed and implemented one-way IP performance measurement tool for Korea Telecom commercial Internet, KORNET. I designed and implemented main modules of control and measurement systems of AMT.

- **1999.3-1999.12:** Project titled A High-quality Multimedia Distribution Service over the Internet (SmartNET). In this project, we implemented a high-quality multimedia distribution service based on MPEG-1 video/audio over the Internet, namely VoD service. I implemented the user interface based on MFC in this project.

Intern:

- **2007.5.14-2007.8.31: SGI, Eagan, MN, USA**
 - **Engineering Work:** CXFS Project for the SGI's Cluster File System for High-Performance Computing. In this project, I extended the Wireshark that is one of popular network analysis tools. Given Interface Description Language (IDL) files for CXFS message protocol, the Wireshark is required to be automatically updated in order to capture packets related to new interfaces specified in the IDL files. I designed and implemented Parsers based on Lex/Yacc to allow both the automation of Wireshark update and the display of IDL interface parameters, given the IDL files.
- **2006.6.1-2006.8.31: McData, Plymouth, MN, USA**
 - **Engineering Work:** Dana Project for the McDATA second generation switch (called iWSM) for SAN Internetworking. In this project, I set up the testbed and extended the testing tool program for testing the iWSM boxes. The first work was to set up the testbed for testing the IPsec implementation in the iWSM using Ixia's IxANVL that is one of the most popular protocol testing tools. Also, I designed the extension of the IxANVL tool for the iWSM IPsec testing. The second work was to extend the windows-based testing program (called MessageBox) for testing the iWSM box. The program is implemented using Visual C++ and WinBatch. Especially, I extended the user-interface functions (such as the window resizing and text-coloring for debugging) and the character caret control in the terminal that is used to provide Command Line Interface (CLI).

Teaching:

- Lecturer: **Introduction to Computer Engineering (ICE2010)**, Department of Software, Sungkyunkwan University, Spring 2013. Undergraduate level course to introduce computer science, such as computer hardware and software.
- Lecturer: **Introduction to Algorithms (SWE3001-41)**, Department of Software, Sungkyunkwan University, Fall 2012. Undergraduate level course to cover the design and analysis of algorithms, such as Dynamic Programming and Greedy Algorithms.
- Teaching Assistant: **Introduction to Computer Networks (CSCI-4211)**, Computer Science and Engineering, University of Minnesota, Fall 2009. Undergraduate level course on the introduction to the computer networking from Data-link layer to Application layer.
- Teaching Assistant: **Wireless Sensor Networks (CSCI-5980)**, Computer Science and Engineering, University of Minnesota, Spring 2006. Graduate level course on the introduction to the wireless sensor networks.
- Teaching Assistant: **Data Communications and Computer Networks (CSCI-5211)**, Computer Science and Engineering, University of Minnesota, Fall 2005. Graduate level course on the introduction to the data communication and computer network for understanding the Internet.
- Teaching Assistant: **Electronic Circuit 1**, Computer Engineering, Seoul National University, Fall 2000. Sophomore level course on introduction to the Electronic Circuit.
- Lecturer: **Windows Programming (MFC) and UNIX Network Programming**, BIT Training Center (BTC) (<http://www.bit.co.kr/english/product/441.htm>), 1999-2000. – BTC is a subsidiary IT Institute of BIT Computer (<http://www.bit.co.kr/english/Index.htm>) to educate and deliver highly skilled programmers to the industry.

Related Courses:

- **Graduate Courses**

- **Ph.D. Courses:** Data Communications and Computer Networks (CSCI-5211), Advanced Algorithms and Data Structures (CSCI-5421), Advanced Computer Networks and Their Applications (CSCI-8211), Numerical Analysis (CSCI-5302), Artificial Intelligence I (CSCI-5511), Probability and Statistics Theory (MATH-5651), New Trends in Database Systems (CSCI-5980), Prediction and Filtering Theory (MATH-5654), Machine Learning (CSCI-5525), Introduction to Stochastic Processes (MATH-5652), Graph Theory and Non-Enumerative Combinatorics (MATH-5707), Statistical Analysis (STAT-5021).
- **M.S. Courses:** Advanced Multimedia, Computer Communication Networks, Security in Computer Systems, Advanced Computer System Performance Evaluation, Topics in Internet, Advanced Operating Systems, Advanced Database, Advanced Programming Language.
- **Undergraduate Courses**
 - Simulation Engineering, Theory of Computation, Computer Networks, Electronics Circuits, Communication Theory, Information Theory I & II, Data Communications, Signal and Systems, Digital Signal Processing, Introduction to Statistics, etc.

Technical/Special Skills:

- **OS:** Cavium, Windows, Unix (Solaris, Linux, FreeBSD).
- **Programming:** C/C++, Perl, MFC, Java, Java Script, Tcl/Tk, Lisp, Scheme, Lex/Yacc, Fortran, Latex and HTML.
- **Network Simulation and Math Package:** ns-2, SMPL, Matlab, Statistix (Statistics Tool).
- **Protocols:**
 1. **Network:** NETCONF/YANG, IEEE 802.11 a/b/g/p, Cloud Computing, TCP/IP, IPv6, IPsec, MIPv6, NEMO, MANET, MPLS, ATM, etc.
 2. **Storage:** Cloud Storage, FCIP, iSCSI, OSD, FC-AL, CXFS, etc.

Professional Activities:

- **2002.1-Present:** IETF Standardization, especially in I2NSF WG, IPWAVE WG, IPv6 WG (Working Group), 6MAN WG, and DNSOP WG
- **2001.1-2001.12:** Secretariat in IPv6 Forum Korea
- **2001.3-2001.12:** Chair of Measurement WG in APAN-KR
- **1999.1-2000.12:** Member of Video WG and Measurement WG in APAN-KR

Professional Services:

- **Technical Program Committee:** International Workshop on Mobile Systems and Applications (MoSA 2011), IEEE International Workshop on Internet and Distributed Computing Systems (IDCS'09, IDCS'11)
- **University Committee Service:** UMN Computer Science DGS Advisory Committee (2007.9-2008.4)
- **Conference Paper Review:** ICOIN'13, IEEE Infocom'12, IEEE WCNC'12, IEEE VTC'12 Spring, IEEE MASS'09, IEEE ICDCS'09, ACM/ IEEE IPSN'09, IEEE Infocom'09, IEEE ICOIN'09, ACM MobiHoc'08, IEEE ICDCS'08, IEEE MASS'08, IEEE Milcom'08, IEEE Globecom'08, IEEE ICNP'07, IEEE ICC'06, IEEE Workshop on Wireless Local Networks'05.
- **Journal Paper Review:** Ad Hoc Networks'11, IEEE Transactions on Vehicular Technology (TVT), IEEE Transactions on Wireless Communications (TWC), IEEE Transactions on Mobile Computing (TMC), IEEE Transactions on Intelligent Transportation Systems (T-ITS), IEEE Intelligent Transportation Systems Magazine, WINET'10, Ad Hoc Networks'10, SENSORS'10, IEEE Communications Letters'09, IJOPCM'09, COMNET'09, SENSORS'09, TIIS'09, IJSNet'06.

Community Services:

- **2018.1-2020.1:** Advisor of SKKU Sungmoohui (Taekwondo Club), The 5th Dan Black Belt, Republic of Korea.
- **2008.3-2012.7:** Teacher at Taekwondo (Korean Martial Art) Class, The 3rd Dan Black Belt, MN, USA.
- **2009.8:** Coach at Commonwealth Terrace Cooperative (CTC) Youth Soccer Class, MN, USA.
- **2007.9-2008.6:** Teacher at Sunday School of Catholic Church, Saint Andrew Kim, MN, USA
- **1996.2-2001.1:** Teacher at Sunday School of Catholic Church, Chang4-dong, Seoul, Korea
- **1993.11-1996.1:** Military Service in Korea Army

Grants:

- **Research Grant** from Daegu Gyeongbuk Institute of Science and Technology (DGIST) in Korea: December 2012 – May 2013, “Vehicular Networking in Cyber-Physical Systems for Intelligent Transportation Systems”.
- **Research Grant** from Electronics and Telecommunications Research Institute (ETRI) in Korea: December 2012 – June 2013, “Research on e-Bus Routing Scheme in Smart e-Bus Framework”.
- **Travel Grant for Illinois Wireless Summer School:** UIUC, Illinois, August 2009.
- **NSF Travel Grant for INFOCOM’07:** Anchorage, Alaska, May 2007.

Awards:

- **IETF Hackathon I2NSF Project: IETF-97 (Best Group Work Award), IETF-99 (Best University Work Award), IETF-100 (Best Student Project Award), IETF-103 (Best Overall Award).**
- **Outstanding Paper in International Conference on Advanced Communications Technology (ICACT 2016),** January 2016, “DNSNA: DNS Name Autoconfiguration for Internet of Things Devices”.
- **Best Paper in Journal of Korean Institution of Information Scientists and Engineers (KIISE),** November 2015, “Design and Implementation of DNS Name Autoconfiguration for Internet of Things Devices”.
- **Best Paper in International Conference on Internet of Vehicles (IOV 2015),** December 2015 “Link Delay Modeling for Two-way Traffic Road Segment in Vehicular Networks”.
- **Spotlight Paper in IEEE Transactions on Mobile Computing,** October 2012, “Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery”.
- **Spotlight Paper in IEEE Transactions on Parallel and Distributed Systems,** May 2011, “Trajectory-Based Data Forwarding for Light-Traffic Vehicular Ad-Hoc Networks”.
- **Computer Engineering Scholarship:** Seoul National University, 1999.
- **Information Engineering Scholarship:** Sungkyunkwan University, 1997-1998.

Publications:

- **Network Security and Privacy**
 1. “IBCS: Intent-Based Cloud Services for Security Applications”, Jinyong (Tim) Kim, Eunsoo Kim, Jinhyuk Yang, Jaehoon (Paul) Jeong, Hyoungshick Kim, Sangwon Hyun, Hyunshik Yang, Jaewook Oh, Younghan Kim, Susan Hares, and Linda Dunbar, IEEE Communications Magazine, Vol. 58, No. 4, pp. 45-51, April 2020.
 2. “A Design of IoT Device Configuration Translator for Intent-Based IoT-Cloud Services”, Chaehong Chung and Jaehoon (Paul) Jeong, The 22nd International Conference on Advanced Communications Technology (ICACT 2020), February 2020.
 3. “Cloud-Based Security Service System for User’s Security Intent Support”, Jaehoon Jeong, US-Korea Conference (UKC 2019), Chicago, US, August 2019.

4. "An Automata-based Security Policy Translation for Network Security Functions", Jinhyuk Yang and Jaehoon Jeong, International Conference on ICT Convergence (ICTC 2018), Jeju, Korea, October 2018.
5. "Interface to Network Security Functions for Cloud-Based Security Services", Sangwon Hyun, Jinyong (Tim) Kim, Hyounghick Kim, Jaehoon (Paul) Jeong, Susan Hares, Linda Dunbar, and Adrian Farrel, IEEE Communications Magazine, Vol. 56, Issue 1, January 2018.
6. "Security Challenges with Network Functions Virtualization", Mahdi Daghmehchi Firoozjaei, Jaehoon Jeong, Hoon Ko, and Hyounghick Kim, Elsevier Future Generation Computer Systems, Vol. 67, February 2017.
7. "RAD: Recipient-Anonymous Data Delivery based on Public Routing Proxies", Hyounghick Kim and Jaehoon Jeong, Elsevier Computer Networks, Vol. 55, Issue 15, October 2011.
8. "DNS Name Service based on Secure Multicast DNS for IPv6 Mobile Ad Hoc Networks", Jaehoon Jeong, Jungsoo Park and Hyounghick Kim, International Conference on Advanced Communications Technology (ICACT 2004), Phoenix Park, Korea, February 2004.

- **Vehicular Networking**

1. "DAPF: Delay-Aware Packet Forwarding for Driving Safety and Efficiency in Vehicular Networks", Hamayoun Shahwani, Bien Aime Mugabarigira, Yiwen Shen, Jaehoon (Paul) Jeong, and Jitae Shin, IET Communications, January 2020.
2. "IPv6 Neighbor Discovery with Multi-hop Communication for IP-Based Vehicular Networks", Zhong Xiang, Yiwen Shen, and Jaehoon Jeong, International Conference on ICT Convergence (ICTC 2019), Jeju, Korea, October 16-19, 2019.
3. "CBDN: Cloud-Based Drone Navigation for Efficient Battery Charging in Drone Networks", Jinyong Kim, Seokhwa Kim, Jaehoon Jeong, Hyounghick Kim, Jung-Soo Park, and Taeho Kim, IEEE Transactions on Intelligent Transportation Systems, Vol. 20, Issue 11, November 2019.
4. "Cloud-based Battery Replacement Scheme for Smart Electric Bus System", Jinyong Kim, Jaehoon Jeong, Hyounghick Kim, and Jung-Soo Park, IETE Journal of Research, July 2018.
5. "STMAC: Spatio-Temporal Coordination-Based MAC Protocol for Driving Safety in Urban Vehicular Networks", Jaehoon Jeong, Yiwen Shen, Sangsoo Jeong, Sejun Lee, Hwanseok Jeong, Tae (Tom) Oh, Taejoon Park, Muhammmad U. Ilyas, Sang Hyuk Son, and David H.C. Du, IEEE Transactions on Intelligent Transportation Systems, Vol. 19, No. 5, May 2018.
6. "SAINT+: Self-Adaptive Interactive Navigation Tool+ for Emergency Service Delivery Optimization", Yiwen Shen, Jinho Lee, Hohyeon Jeong, Jaehoon Jeong, Eunseok Lee, and David H.C. Du, IEEE Transactions on Intelligent Transportation Systems, Vol. 19, No. 4, April 2018.
7. "Protocols and applications in vehicular sensor networks for driving safety, driving efficiency, and data services", Jaehoon Jeong, Tae (Tom) Oh, Sangheon Pack, and Alexandre Petrescu, SAGE International Journal of Distributed Sensor Networks, Vol. 13, No. 2, February 2017.
8. "Survey on Protocols and Applications for Vehicular Sensor Networks", Jaehoon Jeong and Tae (Tom) Oh, SAGE International Journal of Distributed Sensor Networks, Vol. 12, No. 8, August 2016.
9. "Two-Way Traffic Link Delay Modeling in Vehicular Networks", Jinho Lee, Jaehoon Jeong, and David H.C. Du, Elsevier Computer Networks, Vol. 110, **Best Paper**, December 2016.
10. "CRATER: A Crowd Sensing Application To Estimate Road Conditions", Faria Kalim, Jaehoon Jeong, and Muhammad U. Ilyas, IEEE Access, Vol. 4, September 2016.
11. "SAINT: Self-Adaptive Interactive Navigation Tool for Cloud-Based Vehicular Traffic Optimization", Jaehoon Jeong, Hohyeon Jeong, Eunseok Lee, Tae (Tom) Oh, and David H.C. Du, IEEE Transactions on Vehicular Technology, Vol. 65, No. 6, June 2016.
12. "TPD: Travel Prediction-Based Data Forwarding for Light-Traffic Vehicular Networks", Jaehoon Jeong, Jinyong Kim, Taehwan Hwang, Fulong Xu, Shuo Guo, Yu Gu, Qing Cao, Ming Liu and Tian He, Elsevier Computer Networks, Vol. 93, December 2015.
13. "TMA: Trajectory-based Multi-Anycast forwarding for efficient multicast data delivery in vehicular networks", Jaehoon Jeong, Tian He and David Du, Elsevier Computer Networks, Vol. 57, Issue 13, May 2013.
14. "Trajectory-Based Statistical Forwarding for Multihop Infrastructure-to-Vehicle Data Delivery", Jaehoon Jeong, Shuo Guo, Yu Gu, Tian He and David Du, IEEE Transactions on Mobile Computing (TMC), **Spotlight Paper**, Vol. 11, No. 10, October 2012.
15. "Vehicle Trajectory-Based Data Forwarding Schemes for Vehicular Ad Hoc Networks", Jaehoon (Paul) Jeong, KICS Information and Communications Magazine, Survey Paper, August 2012.

16. "Utilizing Shared Vehicle Trajectories for Data Forwarding in Vehicular Networks", Fulong Xu, Shuo Guo, Jaehoon Jeong, Yu Gu, Qing Cao, Ming Liu and Tian He, IEEE Infocom'11 Miniconference, Shanghai, China, April 2011.
 17. "TSF: Trajectory-based Statistical Forwarding for Infrastructure-to-Vehicle Data Delivery in Vehicular Networks", Jaehoon Jeong, Shuo Guo, Yu Gu, Tian He and David Du, IEEE ICDCS'10, June 2010.
 18. "Trajectory-Based Data Forwarding for Light-Traffic Vehicular Ad-Hoc Networks", Jaehoon Jeong, Shuo Guo, Yu Gu, Tian He and David Du, IEEE Transactions on Parallel and Distributed Systems (TPDS), **Spotlight Paper**, Vol. 22, No. 5, May 2011.
 19. "TBD: Trajectory-Based Data Forwarding for Light-Traffic Vehicular Networks", Jaehoon Jeong, Shuo Guo, Yu Gu, Tian He and David Du, IEEE ICDCS'09, June 2009.
- **Internet of Things**
 1. "A Framework for DNS Naming Services for Internet-of-Things Devices", Keuntae Lee, Seokhwa Kim, Jaehoon Jeong, Sejun Lee, Hyounghick Kim, and Jung-Soo Park, Elsevier Future Generation Computer Systems, Vol. 92, pp. 617-627, March 2019.
 2. "SALA: Smartphone-Assisted Localization Algorithm for Positioning Indoor IoT Devices", Jaehoon Jeong, Solchan Yeon, Taemoon Kim, Hyunsoo Lee, Song Min Kim, and Sang-Chul Kim, Springer Wireless Networks, Vol. 24, No. 1, January 2018.
 3. "APRA: Affinity Propagation-Based Resource Allocation Scheme in M2M for System Capacity Maximization", Hamayoun Shahwani, Phuc Chau, Jaehoon Jeong, and Jitae Shin, IETE Journal of Research, Vol. 64, Issue 1, January 2018.
 4. "DNSNA: DNS Name Autoconfiguration for Internet of Things Devices", Sejun Lee, Jaehoon Jeong, and Jung-Soo Park, The 18th International Conference on Advanced Communications Technology (ICACT 2016), **Outstanding Paper**, Phoenix Park, PyeongChang, Korea, Jan 31-Feb 3 2016.
 5. "Design and Implementation of DNS Name Autoconfiguration for Internet of Things Devices", Sejun Lee and Jaehoon Jeong, Journal of KIISE, Vol. 42, No. 11, **Best Paper**, November 2015.
 - **Wireless Sensor Networks**
 1. "CACA: Link-based Channel Allocation Exploiting Capture Effect for Channel Reuse in Wireless Sensor Networks", Junghyun Jun, Solchan Yeon, Titir Kundu, Dharma P Agrawal, Jaehoon Jeong, IEEE ICDCS'16, Nara, Japan, June 27-30, 2016.
 2. "Node Localization in Wireless Sensor Networks", Ziguo Zhong, Jaehoon Jeong, Ting Zhu, Shuo Guo and Tian He, Handbook on Sensor Networks, World Scientific Publishing Co., July 2010.
 3. "Virtual Scanning Algorithm for Road Network Surveillance", Jaehoon Jeong, Yu Gu, Tian He and David Du, IEEE Transactions on Parallel and Distributed Systems (TPDS), Vol. 21, No. 12, December 2010.
 4. "VISA: Virtual Scanning Algorithm for Dynamic Protection of Road Networks", Jaehoon Jeong, Yu Gu, Tian He and David Du, IEEE Infocom'09, April 2009.
 5. "Autonomous Passive Localization Algorithm for Road Sensor Networks", Jaehoon Jeong, Shuo Guo, Tian He and David Du, IEEE Transactions on Computers (TC), Vol. 60, No. 11, November 2011.
 6. "APL: Autonomous Passive Localization for Wireless Sensors Deployed in Road Networks", Jaehoon Jeong, Shuo Guo, Tian He and David Du, IEEE Infocom'08, April 2008.
 7. "MCTA: Target Tracking Algorithm based on Minimal Contour in Wireless Sensor Networks", Jaehoon Jeong, Taehyun Hwang, Tian He and David Du, IEEE Infocom'07 Minisymposia, May 2007.
 8. "Energy-Aware Scheduling with Quality of Surveillance Guarantee in Wireless Sensor Networks", Jaehoon Jeong, Sarah Sharafkandi and David Du, The 2nd ACM/SIGMOBILE Workshop on Dependability Issues in Wireless Ad Hoc Networks and Sensor Networks (DIWANS), September 2006.
 - **Mobile Ad Hoc Networks**
 1. "Design and Implementation of IPv6 Address Autoconfiguration for AODV in Mobile Ad Hoc Networks", Youngmin Kim, Sanghyun Ahn, Youngju Lee, Jaehoon Jeong and Jaehoon Lee, The 2005 US-Korea Conference on Science, Technology & Entrepreneurship (UKC 2005), University of California at Irvine, August 2005.

2. "Name Directory Service based on MAODV and Multicast DNS for IPv6 MANET", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, IEEE VTC 2004-Fall, Los Angeles, CA, USA, September 2004.
 3. "Auto-Networking Technologies for IPv6 Mobile Ad Hoc Networks", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, ICOIN 2004, Busan, Korea, February 18-20, 2004. Reprinted in Lecture Notes in Computer Science (LNCS), Vol. 3090, October 2004.
 4. "Name Service in IPv6 Mobile Ad-hoc Network connected to the Internet", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, IEEE PIMRC 2003, Beijing, China, September 2003.
 5. "Service Discovery based on Multicast DNS in IPv6 Mobile Ad-hoc Networks", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, IEEE VTC 2003-Spring, Jeju, Korea, April 2003.
 6. "Name Service in IPv6 Mobile Ad-hoc Network", Jaehoon Jeong, Jungsoo Park, Hyoungjun Kim and Kishik Park, ICOIN 2003, Jeju, Korea, February 2003. Reprinted in Lecture Notes in Computer Science (LNCS), Vol. 2662, August 2003.
 7. "NDR: Name Directory Service in Mobile Ad-Hoc Network", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, ICACT 2003, Korea, January 2003.
 8. "Autoconfiguration Technologies for IPv6 Multicast Service in Mobile Ad-hoc Networks", Jaehoon Jeong and Jungsoo Park, IEEE ICON 2002, Singapore, August 2002.
 9. "Autoconfiguration Technology for IPv6-based Mobile Ad-hoc Network", Jaehoon Jeong and Jungsoo Park, ICIS 2002, Korea, August 2002.
- **IPv6 Wireless and Wired Networks**
 1. "DNS Configuration in IPv6: Approaches, Analysis and Deployment Scenarios", Soohong Park, Jaehoon Jeong and Choong Seon Hong, IEEE Internet Computing, Vol. 17, Issue 4, July 2013.
 2. "Dynamic Tunnel Management Protocol for IPv4 Traversal of IPv6 Mobile Network", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, IEEE VTC 2004-Fall, Los Angeles, CA, USA, September 2004.
 3. "Route Optimization for Mobile Nodes in Mobile Network based on ND-Proxy", Jaehoon Jeong, Kyeongjin Lee, Jungsoo Park and Hyoungjun Kim, IEEE VTC 2004-Spring, Milan, Italy, May 2004.
 4. "The Autoconfiguration of Recursive DNS Server and the Optimization of DNS Name Resolution in Hierarchical Mobile IPv6", Jaehoon Jeong, Kyeongjin Lee, Jungsoo Park, Heecheol Lee and Hyoungjun Kim, IEEE VTC 2003-Fall, Orlando, USA, October 2003.
 5. "The Extended BGP4+ Algorithm for Multihoming", Jongwook Woo, Seunghyup Ryu, Jaiyong Lee, Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, ITC-CSCC2003, Korea, July 2003.
 6. "Implementation of Service Location Protocol and Remote Device Control for IPv6 based Home Networking", Hyunwook Cha, Jungsoo Park, Jaehoon Jeong and Hyungjun Kim, ICACT 2003, Korea, January 2003.
 7. "Design and Implementation of Multicast Name Resolution for DNS Service and Service Discovery in Unmanaged Network", (in Korean), Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, JCCI 2003, March 2003.
 8. "Design of IPv6-based NGI network over TEIN (TransEurasia Information network) between Korea and Europe", (in Korean), Seunghyun Lee, Jaehoon Jeong, Kyeongjin Lee and Yongjin Kim, NCS 2001, December 2001.
 9. "BGP Extension for Multihoming in IPv6", (in Korean), Jongwook Woo, Seunghyup Ryu, Jaiyong Lee, Jaehoon Jeong and Jungsoo Park, KIPS 2002-Fall, November 2002.
 10. "Setup of IPv6 Multicast Networks through Examples", (in Korean), Jaehoon Jeong, Network Intelligence for Leading Networks (ontheNET) Magazine, IPv6 Technology, January 2004.
 11. "The Trend of Autoconfiguration Technology in IPv6 Mobile Ad-hoc Network", (in Korean), Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, Electronics and Telecommunications Trends, Vol. 18, No. 3, June 2003.
 12. "International Standardization Trends in IETF-56 Meeting: Focus on IPv6-related Working Groups", (in Korean), Jaehoon Jeong, Joochoul Lee, Jungsoo Park and Hyoungjun Kim, ETRI Weekly Technology Trends, May 2003.
 13. "International Standardization Trends in IETF-55 Meeting: Focus on IPv6-related Working Groups", (in Korean), Jaehoon Jeong, Jungsoo Park, Myung-Ki Shin, Kyeongjin Lee, Joochoul Lee and Hyoungjun Kim, ETRI Weekly Technology Trends, Vol. 1087, March 2003.

14. "International Standardization Trends in IETF-54 Meeting: Focus on IPv6-related Working Groups", (in Korean), Jaehoon Jeong, Jungsoo Park and Myung-Ki Shin, ETRI Weekly Technology Trends, Vol. 1065, September 2002.
 15. "International Standardization Trends in IETF-53 Meeting: Focus on IPv6-related Working Groups", (in Korean), Sookyong Lee, Yongguen Hong, Jaehoon Jeong, Jungsoo Park and Yongjin Kim, ETRI Weekly Technology Trends, Vol. 1051, June 2002.
 16. "IPv6 Trends and Prospect", (in Korean), Jaehoon Jeong and Yongjin Kim, ETRI Weekly Technology Trends, Vol. 1033, February 2002.
- **Internet Measurement**
 1. "Design and Implementation of One-way IP Performance Measurement Tool", Jaehoon Jeong, Seungyun Lee, Yongjin Kim and Yanghee Choi, ICOIN 2002, Jeju, Korea, January 2002. Reprinted in Lecture Notes in Computer Science (LNCS), Vol. 2343, July 2002.
 2. "Methodology for One-way IP Performance Measurement on Sub-path or Link in use of IPv6 Extension Header", Jaehoon Jeong, Jungsoo Park, Seungyun Lee and Yongjin Kim, ICACT 2002, Korea, February 2002.
 3. "Design and Implementation of the Stable System for One-way IP Performance Measurement", (in Korean), Jaehoon Jeong, Seungyun Lee, Yongjin Kim, KICS 2001-Fall, November 2001.
 4. "Operation and Use of MRTG", (in Korean), Jaehoon Jeong, Seungyun Lee and Yongjin Kim, Electronics and Telecommunications Trends, Vol. 17, No. 3, June 2002.
 5. "Design and Implementation of Active Measurement Tool for One-way IP Performance Measurement in IPv6 Internet", (in Korean), Jaehoon Jeong, Seungyun Lee, Kyeongjin Lee and Yongjin Kim, NCS 2001, December 2001.
 6. "Methodolgy and Systems for Internet Traffic Measurement", (in Korean), Jaehoon Jeong, Seungyun Lee and Yongjin Kim, Electronics and Telecommunications Trends, Vol. 16, No. 5, October 2001.
 - **Multimedia**
 1. "Distributed Systematic Network Coding for Reliable Content Uploading in Wireless Multimedia Sensor Networks", Phuc Chau, Jitae Shin, and Jaehoon Jeong, Sensors, Vol. 18, No. 6, June 2018.
 2. "Scalable Video Multicast Using Inter-layered Superposition and Network-coded Cooperation over MIMO Relay Systems", Phuc Chau, Jitae Shin, and Jaehoon Jeong, Elsevier Computer Communications, Vol. 120, May 2018.
 3. "Efficient Scalable Video Multicast Based on Network-Coded Communication", Phuc Chau, Jitae Shin, and Jaehoon Jeong, Springer Wireless Networks, Vol. 24, July 2018.
 4. "QoS-guaranteed Mobile IPTV Service in Heterogeneous Access Networks", Soohong Park, Jaehoon Jeong and Choong Seon Hong, Elsevier Computer Networks, Vol. 69, May 2014.
 5. "Experiments on an Audio Conferencing Tool using MP3 Codec", (in Korean), Kyoungae Kim, Sooyeon Kim, Taewan You, Jeongkeun Lee, Youngseok Lee, Yanghee Choi, Jaehoon Jeong, Seungyun Lee, Yongjin Kim, KICS 2001-Fall, November 2001.
 6. "Development of High-Quality Audio Conference Tool Using Public mp3 Codec", (in Korean), Taewan You, Kyoungae Kim, Jeongkeun Lee, Sooyeon Kim, Youngseok Lee, Yanghee Choi, Jaehoon Jeong, Seungyun Lee, Youngjin Kim, KICS 2001-Fall, November 2001.
 7. "Design and Implementation of an IPv6 Multicast based Audio Conferencing Tool using MP3 Codec", (in Korean), Jeongkeun Lee, Taewan Yoo, Kyoungae Kim, Sooyeon Kim, Youngseok Lee, Yanghee Choi, Jaehoon Jeong, Seungyun Lee, Youngjin Kim, KICS 2001-Fall, November 2001.
 - **Storage Networks**
 1. "Experiences in Building an Object-Based Storage System based on the OSD T-10 Standard", David Du, Dingshan He, Changjin Hong, Jaehoon Jeong, Vishal Kher, Yongdae Kim, Yingping Lu, Aravindan Raghuvver and Sarah Sharafkandi, IEEE Conference on Mass Storage Systems and Technologies (MSST), March 2006.
 - **Communications and Networking with Artificial Intelligence**
 1. "Lug Position and Orientation Detection for Robotics Using Maximum Trace Bee Colony", Phuc Nguyen Hong, Jaehoon Jeong, and Chang Wook Ahn, IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Vol. E101-A, No. 2, February 2018.
 2. "Neighbor-Interactive Bee Colony for Problems with Local Structures", Phuc Nguyen Hong, Chang Wook Ahn, and Jaehoon Jeong, IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Vol. E100-A, No.9, September 2017.

3. “MABC: Power-Based Location Planning with a Modified ABC Algorithm for 5G Networks”, Ruchi Sachan, Zahid Muhammad, Jaehoon Jeong, Chang Wook Ahn and Hee Yong Youn, Hindawi Discrete Dynamics in Nature and Society, June 2017.

- **IETF (Internet Engineering Task Force) RFC and Internet Drafts**

1. “I2NSF Capability YANG Data Model”, Susan Hares, Jaehoon (Paul) Jeong, Jinyong (Tim) Kim, Robert Moskowitz, and Qiushi Lin, draft-ietf-i2nsf-capability-data-model-06, Submitted to IESG, July 2020.
2. “I2NSF Consumer-Facing Interface YANG Data Model”, Jaehoon (Paul) Jeong, Chaehong Chung, Tae-Jin Ahn, Rakesh Kumar, and Susan Hares, draft-ietf-i2nsf-consumer-facing-interface-dm-09, July 2020.
3. “I2NSF Network Security Function-Facing Interface YANG Data Model”, Jinyong (Tim) Kim, Jaehoon (Paul) Jeong, Jung-Soo Park, Susan Hares, and Qiushi Lin, draft-ietf-i2nsf-nsf-facing-interface-dm-09, May 2020.
4. “I2NSF NSF Monitoring YANG Data Model”, Jaehoon (Paul) Jeong, Chaehong Chung, Susan Hares, Liang Xia, and Henk Birkholz, draft-ietf-i2nsf-nsf-monitoring-data-model-03, May 2020.
5. “I2NSF Registration Interface YANG Data Model”, Sangwon Hyun, Jaehoon (Paul) Jeong, Taekyun Roh, Sarang Wi, and Jung-Soo Park, draft-ietf-i2nsf-registration-interface-dm-08, March 2020.
6. “Security Policy Translation in Interface to Network Security Functions”, Jaehoon (Paul) Jeong, Jinhuk Yang, Chaehong Chung, and Jinyong (Tim) Kim, draft-yang-i2nsf-security-policy-translation-06, May 2020.
7. “Applicability of Interfaces to Network Security Functions to Network-Based Security Services”, Jaehoon (Paul) Jeong, Sangwon Hyun, Tae-Jin Ahn, Susan Hares, and Diego R. Lopez, draft-ietf-i2nsf-applicability-18, **Approved as an Informational RFC**, September 2019.
8. “Interface to Network Security Functions (I2NSF): Problem Statement and Use Cases”, Susan Hares, Diego R. Lopez, Myo Zarny, Christian Jacquenet, Rakesh Kumar, and Jaehoon (Paul) Jeong, **RFC 8192**, July 2017.
9. “IPv6 Wireless Access in Vehicular Environments (IPWAVE): Problem Statement and Use Cases”, Jaehoon (Paul) Jeong, draft-ietf-ipwave-vehicular-networking-19, Submitted to IESG, July 2020.
10. “Vehicular Neighbor Discovery for IP-Based Vehicular Networks”, Jaehoon (Paul) Jeong, Yiwen (Chris) Shen, Zhong Xiang, and Sandra Cespedes, draft-jeong-ipwave-vehicular-neighbor-discovery-09, May 2020.
11. “Vehicular Mobility Management for IP-Based Vehicular Networks”, Jaehoon (Paul) Jeong, Yiwen (Chris) Shen, and Zhong Xiang, draft-jeong-ipwave-vehicular-mobility-management-03, May 2020.
12. “Basic Support for Security and Privacy in IP-Based Vehicular Networks”, Jaehoon (Paul) Jeong, Yiwen (Chris) Shen, and Jung-Soo Park, draft-jeong-ipwave-security-privacy-01, May 2020.
13. “Context-Aware Navigator Protocol for IP-Based Vehicular Networks”, Jaehoon (Paul) Jeong, Bien Aime Mugabarigira, Zhong Xiang, and Yiwen (Chris) Shen, draft-jeong-ipwave-context-aware-navigator-01, May 2020.
14. “DNS Name Autoconfiguration for Internet-of-Things Devices in IP-Based Vehicular Networks”, Jaehoon (Paul) Jeong, Sejun Lee, and Jung-Soo Park, draft-jeong-ipwave-iot-dns-autoconf-08, May 2020.
15. “IPv6 Router Advertisement Options for DNS Configuration”, **RFC 8106**, Jaehoon (Paul) Jeong, Soohong Daniel Park, Luc Beloeil and Syam Madanapalli, March 2017.
16. “IPv6 Router Advertisement Options for DNS Configuration”, **RFC 6106**, Jaehoon (Paul) Jeong, Soohong Daniel Park, Luc Beloeil and Syam Madanapalli, September 2010.
17. “IPv6 Router Advertisement Option for DNS Configuration”, **RFC 5006**, Jaehoon (Paul) Jeong, Soohong Daniel Park, Luc Beloeil and Syam Madanapalli, September 2007.
18. “IPv6 Host Configuration of DNS Server Information Approaches”, **RFC 4339**, Jaehoon (Paul) Jeong, February 2006.
19. “Ad Hoc IP Address Autoconfiguration”, draft-jeong-adhoc-ip-addr-autoconf-02.txt, Jaehoon Jeong, Jungsoo Park, Hyoungjun Kim and Dongkyun Kim, July 2005.

20. "Requirements for Ad Hoc IP Address Autoconfiguration", draft-jeong-manet-addr-autoconf-reqts-01.txt, Jaehoon Jeong, Jung-Soo Park, Kenichi Mase, Youn-Hee Han, Badis Hakim and Jean-Marie Orset, submitted to IETF-59 Meeting, Seoul, Korea, February 2004.
21. "ND-Proxy based Route and DNS Optimizations for Mobile Nodes in Mobile Network", draft-jeong-nemo-ro-ndproxy-02.txt, Jaehoon Jeong, Kyeongjin Lee, Jungsoo Park and Hyoungjun Kim, submitted to IETF-59 Meeting, Seoul, Korea, February 2004.
22. "DNS Service for Mobile Ad Hoc Networks", draft-jeong-manet-dns-service-00.txt, Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, submitted to IETF-59 Meeting, Seoul, Korea, February 2004.
23. "Ad Hoc IP Address Autoconfiguration for AODV", draft-jeong-manet-aodv-addr-autoconf-00.txt, Jaehoon Jeong, Jungsoo Park, Hyoungjun Kim and Dongkyun Kim, submitted to IETF-59 Meeting, Seoul, Korea, February 2004.
24. "Route Optimization for Mobile Nodes in Mobile Network based on Prefix Delegation", draft-leekj-nemo-ro-pd-01.txt, Kyeongjin Lee, Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, submitted to IETF-58 Meeting, Minneapolis, Minnesota, USA, October 2003.
25. "The Autoconfiguration of Recursive DNS Server and the Optimization of DNS Name Resolution in Hierarchical Mobile IPv6", draft-jeong-hmipv6-dns-optimization-01.txt, Jaehoon Jeong, Jungsoo Park, Kyeongjin Lee and Hyoungjun Kim, submitted to IETF-57 Meeting, Vienna, Austria, July 2003.
26. "IPv6 Router Advertisement based DNS Autoconfiguration", draft-jeong-ipv6-ra-dns-autoconf-00.txt, Jaehoon Jeong, Byungyeob Kim, Jungsoo Park and Hyoungjun Kim, presented in IETF-57 Meeting, Vienna, Austria, July 2003.
27. "Unique DNS Name Generation", draft-jeong-name-generation-01.txt, Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, submitted to IETF-56 Meeting, San Francisco, CA, USA, March 2003.
28. "Unicast Routing based Multicast Routing Protocol for Mobile Ad Hoc Networks (UMR)", draft-jeong-umr-manet-00.txt, Jaehoon Jeong and Jungsoo Park, submitted to IETF-54 Meeting, Yokohama, Japan, June 2002.
29. "One-way Delay Measurement using IPv6 Source Routing", draft-jeong-1way-delay-ipv6-source-routing-00.txt, Jaehoon Jeong, Jungsoo Park, Seungyun Lee and Yongjin Kim, submitted to IETF-53 Meeting, Minneapolis, MN, USA, February 2002.

- **Patents**

1. "Location Estimation Method for Indoor Device", Jaehoon Jeong, Tae Moon Kim, and Sol Chan Yeon, U.S. Patent, No. 9,936,356, April 3, 2018.
2. "Vehicle Navigation Apparatus and Method of Determining Trajectory of Vehicle", Jaehoon Jeong and Eunseok Lee, U.S. Patent, No. 9,279,690, March 8, 2016.
3. "Method for Communication with IPv4 Internet in IPv6 Mobile Network Environment", Jaehoon Jeong, Jungsoo Park, Hyoungjun Kim and Hyoungho Lee, Korean Patent, Number 10-0659586, December 13, 2006.
4. "Route Optimization Method for Mobile Nodes in IPv6 Mobile Network on the basis of Neighbor Discovery Proxy", Jaehoon Jeong, Kyeongjin Lee, Jungsoo Park and Hyoungjun Kim, Korean Patent, Number 10-0597432, June 29, 2006.
5. "Route Optimization for Mobile Nodes in Mobile Network based on Prefix Delegation", Kyeongjin Lee, Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, Korean Patent, Number 10-0596383, June 27, 2006.
6. "Method for generating Unique Domain Name based on Network Device Identifier", Jaehoon Jeong, Jungsoo Park and Hyoungjun Kim, Korean Patent, Number 0545738, January 17, 2006.

[Presentation in Workshop:](#)

1. "Vehicular IoT Networking and Services", KRnet 2018 Conference, Seoul, Korea, June 2018.
2. "IoTivity: OCF Open Source Project", KRnet 2016 Conference, Seoul, Korea, June 2016.
3. "IoT-Based Intelligent Transportation Systems", KRnet 2015 Conference, Seoul, Korea, June 2015.
4. "Vehicular Cyber-Physical Systems for Smart Road Services", KRnet 2013 Conference, Seoul, Korea, June 2013.
5. "Vehicular Cyber-Physical Systems for Smart Road Services", The 3rd International Workshop on Cyber Physical Systems (IWCPs 2013), DGIST, Daegu, Korea, May 2013.

6. "Research on Vehicular Cyber-Physical Systems", Jaehoon Jeong, CITAC Workshop, Center for IT & Automobile Convergence (CITAC) at Kyungpook National University, Daegu, Korea, October 2012.
7. "TBDF: Trajectory-Based Data Forwarding for Infrastructure-to-Vehicle Communications", Jaehoon Jeong, Poster Presentation at Illinois Wireless Summer School, UIUC, Illinois, US, August 2009.
8. "Wireless Sensor Networking for Road Networks: Localization, Surveillance, and Data Forwarding", Jaehoon Jeong, Invited Talk, KAIST, Daejeon, Korea, June 2009.
9. "TBD: Trajectory-Based Data Forwarding for Internet Access in Vehicular Networks", Jaehoon Jeong, Invited Talk, Seoul National University, Seoul, Korea, May 2009.
10. "Sensor Networking for Intelligent Transportation Systems", Jaehoon Jeong, BK-21 Invited Talk, Kyungpook National University, Daegu, Korea, July 2008.
11. "MANET Implementation and Test", Jaehoon Jeong, KRnet 2004 Conference, Seoul, Korea, June 2004.
12. "IP Autoconfiguration for MANET", Jaehoon Jeong, Wireless Access Network and NS-2 Workshop, Seoul, Korea, April 2004.
13. "Ad Hoc IP Address Autoconfiguration", Jaehoon Jeong, Internet Standard Technology Workshop, Seoul, Korea, February 2004.
14. "Ad Hoc Standard Routing Protocol (RFC3561) and IPv6 Technologies for IPv6 MANET", Jaehoon Jeong, IPv6 Standardization Workshop, Seoul, Korea, October 2003.
15. "Autoconfiguration Technologies in IPv6 Mobile Ad Hoc Networks", Jaehoon Jeong, APAN2003 Meeting, Busan, Korea, August 2003.
16. "MANET Auto-Configuration", Jaehoon Jeong, KRnet2003 Conference, Seoul, Korea, June 2003.
17. "IPv6 Autoconfiguration Technology for Ad Hoc Networks", Soyeon Ahn and Jaehoon Jeong, IPv6 Forum Korea Workshop, Jeju, Korea, October 2002.
18. "IPv6 Deployment Technology for Ad Hoc Environment", Jaehoon Jeong, Internet Standard Technology Workshop, Seoul, Korea, September 2002.
19. "IPv6 Activities in Korea", Jaehoon Jeong and Yongjin Kim, APAN2001 Meeting, Penang, Malaysia, August 2001.
20. "AMTv6: Active Measurement Tool in IPv6 Network", Jaehoon Jeong, APAN2001 Meeting, Penang, Malaysia, August 2001.
21. "APAN-KR Measurement Activity", Jaehoon Jeong, APAN2000 Meeting, Beijing, China, August 2000.
22. "Digital Video Over IP", Jaehoon Jeong and Haewon Lee, APAN-KR & KOREN Workshop, Daejeon, Korea, August 1999.

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