

Publications of

## Charles J. Kim

Professor

Department of Electrical Engineering and Computer Science  
Howard University  
2300 6th St. NW  
Washington, DC 20059

Phone: 202-806-4821 (Work)

Email (primary): ckim@howard.edu

### PUBLICATIONS

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#### Book or Chapter of a Book

- Charles Kim, *Embedded Computing with PIC16F877 - Assembly Language Approach*, 2006. Electronic book.
- Charles Kim, "Detection and Location of Electromagnetic Radiation from Electric Arc and Spark," acceptor for a chapter of a book *Electromagnetic Radiation*, InTech Pub. October 2011.

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- Erwin Thomas Gilmore, Chukwunweike Ugbome and Charles Kim, "An IR-based Pedestrian Detection System Implemented with Matlab-Equipped Laptop and Low-Cost Microcontroller," International Journal of Computer Science & Information Technology (IJCSIT) Vol 3, No 5, Oct 2011, pp. 79- 87.
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- Derrick Anang and Charles Kim, "Location Determination of Transient Cable Fault by Graphical Analysis of Time-Domain Waveform with Impact of Load Distribution," 2018 Power Systems Conference, Clemson University, September 4- 7, 2018.

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- Charles Kim and Harald Schone, "Machine Reasoning for Determining Radiation Sensitivity of Semiconductor Devices," 20<sup>th</sup> International Conference on Artificial Intelligence, July 30 – Aug 2, 2018, Las Vegas, NV.
- Charles Kim, "A Cyber Resilient Industrial Control System through Diversified Redundancy and Intrusion Detection," Keynote Speaker Presentation, World Congress on Industrial Control System Security (WCISCSS 2017), December 11 - 14, 2017. Cambridge, UK.
- Afoma Ihekweba and Charles Kim, "Analysis of Electric Vehicle Charging Impact on Grid Voltage Regulations," IEEE 49th North American Power Symposium, September 2017.
- Dayne Robinson\* and Charles Kim, "Modbus Monitoring for Networked Control Systems of Cyber-Defensive Architecture," IEEE 49th North American Power Symposium, September 2017.
- C. J. Kim et al, "Vertically Integrated Projects (VIP) Programs: Multidisciplinary Projects with Homes in Any Discipline," Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. June 24, 2017. <https://peer.asee.org/29103>
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- Charles Kim, Deborah Jackson, and Peter Keiller, "Development and Team-Teaching of 'Computers and Nuclear Energy' for Non-Nuclear Engineering Students," 2013 Conference on Nuclear Training and Education, Jacksonville, FL. Feb 3-6, 2013
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- Madeline Martinez - Pabón, and Kim, “Application of the Normal Accident Theory to Telecommunication Accidents with Quantified System Characteristics,” 31st International System Safety Conference, August 4-5, 2012.
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- Charles Kim and Tom Bialek, “Sub-Cycle Ground Fault Location – Formulation and Preliminary Results”, 2011 IEEE Power Systems Conference & Exposition March 20-23, 2011 Phoenix, AZ
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## INVENTION AND PATENT

- U. S. Patent 10592668 "Computer system security with redundant diverse secondary control system with incompatible primary control system" (Grant date: March 17 2020)
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- U. S. Patent 8897635: "System and Method of Detecting and Locating Intermittent and Other Faults" Nov 25, 2014
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