

Biographical Sketch

Charles Kim, Ph. D.

Department of Electrical Engineering and Computer Science
Howard University

Professional Preparation

Seoul National University, Seoul, South Korea	Electrical Eng, BS	1980
Texas A&M University, College Station, TX	Electrical Eng, Ph.D.	1989
Texas A&M University, College Station, TX	Electrical Eng, Post-Doc	1990

Appointments

Aug 2013 - Present	Professor, Electrical Engineering and Computer Science, Howard University
Aug 2008 – Jul 2013	Associate Professor, Electrical and Computer Engineering, Howard University
Aug 2003 – Jul 2008	Assistant Professor, Electrical and Computer Engineering, Howard University
Jan 1999 – Jul 2003	Visiting Professor, Electrical Engineering, Howard University
Mar 1994 – Dec 1998	Assistant Professor, Suwon University, Suwon, South Korea

Products/Publications

1. FIVE MOST CLOSELY RELATED TO PROPOSED PROJECTS

- Charles Kim, Building Faculty-Student Research Teams via a Vertically Integrated Project (VIP) Framework , Scholarship and Practice for Undergraduate Research (SPUR) Quarterly, Summer 2018. vol .1, no.4, p. 48-49
- "Vertically Integrated Projects (VIP) Programs: Multidisciplinary Projects with Homes in Any Discipline," Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. <https://peer.asee.org/29103>
- Charles Kim, Deborah Jackson, and Peter Keiller, "Interdisciplinary Team-Teaching Experience For A Computer And Nuclear Energy Course For Electrical And Computer Engineering Students," American Journal of Engineering Education, Vol. 7, No .1 June 2016
- Connor, K. A., & Astatke, Y., & Kim, C. J., & Eldek, A. A., & Majlesein, H. R., & Andrei, P., & Attia, J. O., & Gullie, K. A., & Graves, C. A., & Osareh, A. R. (2015, June), Simultaneous Implementation of Experimental Centric Pedagogy in 13 ECE Programs Paper presented at 2015 ASEE Annual Conference and Exposition, Seattle, Washington. 10.18260/p.24712
- Charles Kim, Mohamed Chouikha, and Kojo Linder, "Bridging Lecture and Lab by Mobile Studio - Experience in Electrical Engineering Courses, " 2009 International Conference on Engineering Education (ICEE_iCEER), August 23-28, 2009. Seoul, Korea.

2. OTHER SIGNIFICANT PRODUCTS

- Derrick Anang and Charles Kim, "Graphical Determination of Transient Cable Fault Location with Captured Time-Domain Data," North American Power Symposium (NASP2018), September 9 - 11, 2018. Fargo, ND.
- Frank Zoko Ble, Matti Lehtonen, and Charles Kim, "Arcing Faults Localization using RF-Signal Angle of Arrival Method," (2014) International Review of Electrical Engineering (IREE), 9(6), pp. 1136-1147. December 2014.
- Charles Kim, Tom Bialek, and Jude Awiylika (2013), "An Initial Investigation for Locating Self-Clearing Faults in Distribution Systems," IEEE Transactions on Smart Grid, 4(2), pp. 1105-1112, June 2013.
- Derssie Mebratu and Charles Kim, "Combination of clustering algorithms to maximize the lifespan of distributed wireless sensors," J. Sens. Sens. Syst., 5, 63-72, 2016 (jssss-5-63-2016).

- Charles Kim, "Machine Reasoning for Determination of Threat Level in Irregular Warfare", Army Science & Technology Symposium and Showcase, August 21 - 23, 2018. Washington, DC.

Synergistic Activities

1. Experiential Centric Program: Howard University (Lead) and Morgan State University lead a project that has created and run a sustainable "HBCU Engineering Network" that focused on the development, implementation, and expansion of an Experimental Centric based instructional pedagogy in engineering curricula used in these HBCUs. Charles Kim was one of the Co-PIs of the project. The goal of the project was to prepare a larger number of better prepared African American engineers, as well as other students who have a better public understanding of technology and its role in STEM education and policy. Charles Kim served as a Co-PI of the NSF sponsored project. The HBCU network universities include: implemented the VIP Program and collaborate to assess and disseminate it: Alabama A&M, Florida A&M, Hampton, Howard, Jackson State, Maryland-Eastern Shore, Morgan State, NC A&T, Norfolk State, Prairie View A&M, Southern, Tennessee State, and Tuskegee.
2. The VIP Consortium: Howard is a part of the VIP consortium network of 19 U.S. and 5 international universities that have implemented the VIP Program and collaborate to expand, disseminate, and assess it. Charles Kim was the PI and coordinator of VIP at Howard University. The consortium includes: Arizona State, Boise State, Colorado State, Delaware, Florida International, Georgia, Hawaii, Howard, Inha, GT, Michigan, Morehouse, National Ilan, NYU, Purdue, Rice, Riga Technical Univ, Strathclyde, Texas A&M, UC-Davis, UC-Riverside, Univ del Norte, VCU, Washington. The lead institution of the network is Georgia Tech.