HMPC
Celebrating The 46th Anniversary of IEEE Seoul Section

Annual Meeting
IEEE Seoul Section
2022

On February 26, 2022

4:30 pm
Virtual Meeting

Hosted by **Higher Membership Promotion Committee** Presents

2022 IEEE Fellows

Chul-hwan Kim
(SKKU)

Jin Hur
(Incheon NU)

Kang-won Lee
(SKT)

Sam Noh
(UNIST)

Thomas Byunghak Cho
(SEC)

Sung Ik Park
(ETRI)

Invited Talks

Cheon Won Choi
◆ 2021-2022
Seoul Section Chair

Kukjin Chun
◆ 2020-2021
MGA Vice-President

Byung Gook Park
◆ 2021-2022 R10 Vice-Chair
Membership Activities Committee

IEEE Seoul Section

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Chul-hwan Kim

> IEEE Fellow Citation: for contribution to protective relaying methods to reduce power system outages

> Professor, College of Information and Communication Engineering, Sungkyunkwan University, KR

> Chul-Hwan Kim received the B.S., M.S., and Ph.D. degrees in the electrical engineering from Sungkyunkwan University, Republic of Korea (South Korea), in 1982, 1984 and 1990, respectively. In 1990, he joined Jeju National University, Cheju, Korea, as a Full-Rime Lecturer. He was a visiting academic with the University of Bath, Bath, U.K., in 1996, 1998 and 1999. He joined the faculty of the Sungkyunkwan University as an assistant professor (1992), associate professor (1996-2000) and full professor (2001-present).

> He served as KIEE (Korean Institute of Electrical Engineers) PES society President (2018) and is Vice President of the KIEE in 2019. Now he is the President of the KIEE in 2021. He was a chair of IEEE Seoul Section PES chapter(2018~2020). Chul-Hwan Kim is an IEEE senior member and KIEE fellow. He was an expert advisor (2018~2021) of research board in NRF (National Research Foundation) of Korea. Also, he is an editorial board member of the IEEE Power and Energy Magazine now.

> He holds 52 patents (including 13 international patents) and published more than 270 Transactions and Journals papers related to his research area, including SCI/E indexed 107 papers. He has received a number of awards, including the academic award of the KIEE (2000), Prof. Yong-Moon Park's academic award (2001), the paper award of the KIEE (2017), and fifty of his papers have received the best paper award from the IEEE, KIEE and other academic institute. He is mainly engaged in the teaching and research work of power system protection, renewable energy, reclosing scheme and electromagnetic transients. In recent years, he has been engaged in low voltage DC (LVDC) distribution line analysis and DC microgrid protection and control.

Jin Hur

› IEEE Fellow Citation: for contributions to design of permanent magnet synchronous motors

› Professor, Department of Electrical Engineering, Incheon National University

› Jin Hur (Senior Member, IEEE) received the Ph.D. degree in electrical engineering from Hanyang University, Seoul, South Korea, in 1999.,From 1999 to 2000, he was a Postdoctoral Research Associate with the Department of Electric Engineering, Texas A&M University, College Station, TX, USA. From 2000 to 2001, he was a Research Professor of electrical engineering for BK21 projects at Hanyang University.

› From 2002 to 2007, he was the Director of the Intelligent Mechatronics Research Center, Korea Electronics Technology Institute (KETI), Puchon, South Korea, where he worked on the development of special electric machines and systems. From 2008 to August 2015, he was an Associate Professor with the School of Electric Engineering, University of Ulsan, Ulsan, South Korea. Since August 2015, he has been a Professor with the Department of Electrical Engineering, Incheon National University, Incheon, South Korea.

› He has authored and coauthored over 140 publications on electric machine design, analysis and control, and power electronics. He has one pending U.S. patent and 20 pending Korean patents. His current research interests include high-performance electrical machines, modeling, drives, new concept actuators for special purposes, and numerical analysis of electromagnetic fields.,Dr. Hur is an Associate Editor for IEEE Transaction on Power Electronics.(Based on document published on 8 November 2021).

Kang-won Lee

- IEEE Fellow Citation: for contribution to development of SDN and virtualization technologies for 5G wireless networks

- VP of Cloud Technology, SKT. Senior Vice President of R&D at SK Telecom, ACM Distinguished Scientist, IEEE Senior Member, Ph.D.

- Dr. Kang-Won Lee is a VP of Technology at SK Telecom, a globally leading mobile operator. At SKT he has been in charge of technical teams that develop cloud technologies (containers, edge cloud, SDN for DC and 5G), and advanced software and hardware systems (all flash storage, blockchain platform, and AI accelerator, etc.).

- He has 20+ years of experience of leading R&D and software development and successfully translating them into business results. His expertise lies in computer networks, wireless networks, cloud computing & datacenter management, big data analysis, distributed systems, and AI systems. Before joining SKT in 2014, he worked at IBM Research in New York for 14+ years. In 2022, he was selected as an IEEE Fellow (0.1% of the members) for contributions to "SDN and virtualization technologies for 5G networks."

Sam H. Noh

- IEEE Fellow Citation: for contributions to storage system software for flash and nonvolatile memory

- Ulsan National Institute of Science & Technology (UNIST), Korea

- Sam H.(Hyuk) Noh received the BE degree in computer engineering from the Seoul National University, Seoul, Korea, in 1986, and the PhD degree from the Department of Computer Science, University of Maryland, College Park, MD, in 1993. He held a visiting faculty position at the George Washington University, Washington, DC, from 1993 to 1994 before joining Hongik University, Seoul, Korea, where he was a professor in the School of Computer and Information Engineering until the Spring of 2015. During this period, he served as the Chair of the Department of Computer Engineering as well as the Head of the School from September of 2013 through February of 2015. From August 2001 to August 2002, he was also a visiting associate professor with the University of Maryland Institute of Advanced Computer Studies (UMIACS), College Park, MD. Starting from the Fall of 2015 he joined UNIST (Ulsan National Institute of Science and Technology), a young Science and Tech focused national university, where he is a Professor at the Department of Computer Science and Engineering and serves as the inaugural Dean of the Graduate School of Artificial Intelligence in the College of Information and Biotechnology. He also served as the Dean of the School of Electrical and Computer Engineering from January of 2016 through June of 2018.

- He has served as General Chair, Program Chair, and Program Committee Member on a number of technical conferences and workshops including USENIX OSDI (2022, 2016), IEEE RTAS (2022, 2019), USENIX ATC (2021, 2019), ACM EMSOFT (2021, 2020, 2019, 2018), USENIX FAST (2020 (co-chair), 2019, 2018, 2017, 2016, 2105, 2014, 2013), ACM Eurosys (2020, 2018), USENIX HotStorage (2021, 2020, 2018, 2016 (co-chair), 2015), ACM SOSP (2019), ACM ASPLOS (2018 (ERC), 2016), ACM LCTES (2015 General Chair), IEEE ICPADS (2013 subtrack co-chair), and WWW (2003), among others. He also served on the Steering Committee of LCTES from 2016 through 2020. He is currently the Chair of the Steering Committee for ACM HotStorage and a Steering Committee member of USENIX FAST and IEEE NVMSA. After serving as Associate Editor of the ACM Transactions on Storage from 2014 through 2016, he became its Editor-in-Chief in 2016 and is currently serving his second three-year term.

- His research interests include system software issues pertaining to computer systems in general and storage systems in particular, with a focus on the use of new memory technologies such as flash memory and persistent memory. He is a Fellow of the ACM and IEEE and a member of USENIX and KIISE (Korean Institute of Information Scientists and Engineers).

Thomas Byunghak Cho

› IEEE Fellow Citationfor leadership and contributions in CMOS RFIC design and commercialization of wireless mobile systems

› Senior Advisor, System LSI Business Device Solutions Division Samsung Electronics

› Thomas Byunghak Cho received the B.S. degree from the University of California at Los Angeles, Los Angeles, CA, in 1989, and the M.S. and Ph.D. degrees from the University of California at Berkeley, Berkeley, CA, in 1991 and 1995, respectively, all in electrical engineering.

› In 1996, he joined Level One Communications, San Francisco, CA, designing CMOS RF circuits for cordless phone applications. In 2000, he co-founded Wireless Interface Technologies, Dublin, CA, developing CMOS RF transceiver products for WLAN and BT applications. From 2004 to 2011, he was with Marvell Semiconductor, Santa Clara, CA, focusing on CMOS RF and analog IC developments for various wireless and wireline connectivity applications. In 2012, he joined the System LSI BU in Samsung Electronics, Hwaseong-si, South Korea, and held executive positions leading engineering teams to develop various IC/IPs and design technologies, such as cellular/connectivity RF transceivers, analog/mixed-signal IPs, multimedia IPs, digital physical implementation, design verification, etc. He is currently a senior advisor to the same company.

› His technical interests are in RF/analog/mixed-signal circuit designs for wireless and wireline communication systems, low power digital circuit techniques for processors, and analog-to-digital interface circuit designs for sensor applications. He has authored or co-authored over 40 journal articles and conference papers. He also holds over 40 patents.

Sung Ik Park

› IEEE Fellow Citation: for contributions to physical layer development of broadcast systems

› Principal Researcher (Broadcasting System Research Department), Electronics and Telecommunications Research Institute: Daejeon, KR

› Dr. Sung-Ik Park joined the Broadcasting System Research Group of Electronics and Telecommunication Research Institute (ETRI) in 2002, and he is in charge of ATSC standardization, HW/SW implementations, and laboratory/field tests. Dr. Park is a principal member of the research staff and leading several ATSC 3.0-related research projects. His research interests are in the area of error correction codes and digital communications, in particular, signal processing for digital television.

› Dr. Park has more than 250 peer-reviewed journal and conference publications and various best paper and contribution awards for his work on broadcasting technologies. Dr. Park currently serves as an associate editor of the IEEE Transactions on Broadcasting and ETRI Journal, and a distinguished lecturer of IEEE Broadcasting Technology Society.