

Kyeon Hur, Ph.D.

CONTACT INFORMATION	Professor, Electrical and Electronic Engineering Yonsei University, 50 Yonsei-ro, Seodaemun-gu, 03722, Seoul, Korea	Office: +82-2-2123-5774 E-mail: khur@yonsei.ac.kr https://smartgrid.yonsei.ac.kr
ACADEMIC APPOINTMENTS	Yonsei University , Seoul, Korea	
	<i>Professor, Electrical and Electronic Engineering</i>	Mar '10 to Present
	<i>Associate Dean (Academic Affairs), College of Engineering</i>	Mar '10 to Present
PROFESSIONAL EXPERIENCES	Electric Power Research Institute (EPRI) , Palo Alto, CA, USA	
	<i>Senior Project Scientist, Power Distribution & Utilization</i>	Jul '08 to Jan '10
	Led projects on PMU-based OOS protection scheme, dynamic load modeling, FACTS/HVDC	
	Electric Reliability Council of Texas (ERCOT) , Taylor, TX, USA	
	<i>Operations Engineer II, Operations Support</i>	Mar '07 to Jul '08
	Supported grid operations using RTNET (State Estimation) and Online DSA	
	Samsung Electronics , Suwon City, Gyeonggi-do, Korea	
	<i>R&D Engineer, Institute of Intelligent Systems</i>	Feb '98 to May '03
	Designed high-performance AC drives	
EDUCATION	The University of Texas at Austin , Austin, TX, USA	
	Ph.D., Electrical and Computer Engineering, May '07	
	Yonsei University , Seoul, Korea	
	M.S., Electrical Engineering, Feb '98	
	Yonsei University , Seoul, Korea	
	B.S., Electrical Engineering, Feb '96	
PROFESSIONAL MEMBERSHIPS	Institute of Electrical and Electronics Engineers (IEEE), Senior Member, 2004–present	
	- Power and Energy Society: Active in IEEE PES HVDC and FACTS Subcommittee, WGs on Dynamic Performance and Modeling of HVDC & FACTS, Planning and Applications of HVDC Systems - Power Electronics, Industry Applications and Industrial Electronics Societies	
	Cigre WG B4.62 - Connection of Wind Farms to Weak AC networks, 2013–2016	
	The Korea Institute of Electrical Engineers (KIEE), 2010–present	
PROFESSIONAL SERVICES	IEEE, KIEE, International Conferences and IEC	
	<i>IEEE PES Long-range planning, Subcommittee 2</i> (2024 – Present) <i>IEEE Seoul Section, Secretary, Region 10</i> (2023 – 2024) <i>IEEE Seoul Section, Membership Development Committee, Region 10</i> (2016 – 2017) <i>IEEE PES GM, Lecturer, Tutorial on HVDC Planning</i> (2016, 2017, 2023) <i>TC, International Conference on Power System Transients 2023, 2025, 2027</i> <i>STC, LOC Chair, International Council of Electrical Engineering</i> (2019 – 2022) <i>IEC Standards Technical Committee SC8C WG3</i> (2024 – Present) <i>KIEE Board Member</i> (2013 – Present)	

Editorial Board Services

- *IEEE Transactions on Sustainable Energy* (2026–Present)
- *IET Energy Conversion and Economics* (2023–Present)
- *Electric Power Systems Research - IPST 2023, 2025 Special Issues*
- *Advances in Applied Energy - VPP with Flexible Resources* (2022–2024)
- *Journal of Electrical Engineering and Technology (JEET)* (2015–2017)
- *Journal of Power Electronics (JPE)* (2011–2015)

SELECTED AWARDS

- Certificate of Appreciation - Secretary, IEEE Seoul Section ('24)
- Yonsei Awards, Teaching Excellence ('23), Outstanding Accomplishment ('14,'17)
- Commendation by the Ministry of Trade, Industry and Energy for Excellent R&D achievements ('22)
- WG Recognition Award for Outstanding Technical Report: Studies for Planning HVDC (TR 86, Working Group 15.05.18) ('22)
- Certificate of Recognition, IEEE Member Recruitment and Recovery Committee ('16,'17)
- KIEE, Dong-Chon Power Systems Engineering Award ('13)

SELECTED RECENT IEEE PUBLICATIONS

- [1] “Deterministic and Probabilistic Forecasting of Wind Power Generation and Ramp Rate With Expectation-Implemented Deep Learning,” *IEEE Transactions on Sustainable Energy*, vol. 17, no. 1, pp. 338–350, Jan., 2026.
- [2] “Synthetic Inertia Control for a Wind Turbine Generator Based on Event Size and Rotor Speed,” *IEEE Transactions on Sustainable Energy*, vol. 17, no. 1, pp. 684–696, Jan., 2026.
- [3] “Locating the Source of Oscillation With Two-Tier Dynamic Mode Decomposition Integrating Early-Stage Energy,” *IEEE Transactions on Power Systems*, vol. 39, no. 4, pp. 5535–5547, July, 2024.
- [4] “Interleaving Clusters of Submodules to Enhance Scalability of Modular Multi-level Converters for High-Voltage Applications,” *IEEE Transactions on Power Delivery*, vol. 39, no.1, pp. 555–564, February, 2024.
- [5] “Active distribution network expansion planning with dynamic thermal rating of underground cables and transformers,” *IEEE Transactions on Smart Grid*, vol. 15, no.1, pp. 218–232, Jan., 2024.
- [6] “Dynamic Performance Modeling and Analysis of Power Grids With High Levels of Stochastic and Power Electronic Interfaced Resources,” *Proceedings of the IEEE*, vol. 111, no. 7, pp. 854–872, June, 2023.
- [7] “Feedforward Error Learning Deep Neural Networks for Multivariate Deterministic Power Forecasting,” *IEEE Transactions on Industrial Informatics*, vol. 18, no.9 , pp. 6214–6223, March, 2022.
- [8] “Understanding and Evaluating Systemwide Impacts of Uncertain Parameters in the Dynamic Load Model on Short-Term Voltage Stability,” *IEEE Transactions on Power Systems*, vol. 36, no.3 , pp. 2093–2102, May, 2021.
- [9] “Deep Concatenated Residual Network With Bidirectional LSTM for One-Hour-Ahead Wind Power Forecasting,” *Transactions on Sustainable Energy*, vol. 12, no.2 , pp. 1321–1335, April, 2021.
- [10] “Stochastic Eigen-Analysis of Electric Power System with High Renewable Penetration: Impact of Changing Inertia on Oscillatory Modes,” *IEEE Transactions on Power Systems*, vol. 35, no.6 , pp. 4655–4665, Nov., 2020.