

Hooman Lee

Curriculum Vitae



CEO
EXOSYSTEMS Inc., Korea

Educational Background & Professional Experience

2026.2–Present	Delegate, ISO/IEC JTC 1/SC 43 – Brain–computer interfaces
2017.1–Present	Founder / CEO, EXOSYSTEMS Inc.
2011.2–2017.1	Researcher, Intelligent Robotics Research Group, Electronics and Telecommunications Research Institute (ETRI)
2016.3–Present	Ph.D. Cand., Intelligence and Information, Seoul National University
2009.3–2011.2	MS, Intelligence and Information, Seoul National University
2004.3–2009.2	BS, Biosystems Engineering, Seoul National University

Research Interests

Digital Healthcare, AI, Bio signal, Rehabilitation, Robotics

Publications

1. Jihoon Shin, Kwangsub Song, Sung–Woo Kim, Sangui Choi, Hooman Lee, Il–Soo Kim, Sun Im, Min Seok Baek, A wearable approach for Sarcopenia diagnosis using stimulated muscle contraction signal, Biomedical Engineering Letters, Mar. 2025.
2. Kwangsub Song, Jin Hong Shin, Sangui Choi, So Ra Moon, Ji Hong Min, Sung–Chul Huh, Seung Mi Yeo, Howon Jeon, Hooman Lee, Soo–Yeon Kim, Feasibility of Artificial Intelligence–Based Severity Assessment Technique Using Stimulated Muscle Contraction Signal in the Patients with Spinal Muscular Atrophy, Journal of Interdisciplinary Genomics, Apr. 2025.
3. Kwangsub Song, Hyung Eun Shin, Wookhyun Park, Daehyun Lee, Jaeyoung Jang, Ga Yang Shim, Sangui Choi, Miji Kim, Hooman Lee, Chang Won Won, Digital Biomarker for Muscle Function Assessment using Surface Electromyography with Electrical Stimulation and A Non–Invasive Wearable Device, IEEE Transactions on Neural Systems and Rehabilitation Engineering, Aug. 2024.
4. Kwangsub Song, Hae–Yeon Park, Sangui Choi, Seungyup Song, Hanee Rim, Mi–Jeong Yoon, Yeun Jie Yoo, Hooman Lee, Sun Im, Sarcopenia Diagnostic Technique Based on Artificial Intelligence Using Bio–signal of Neuromuscular System: A Proof–of–Concept Study, May. 2024.
5. Yerim Ji, Mi–Jeong Yoon, Kwangsub Song, Sangui Choi, Hooman Lee, Ji Yoon Jung, Seungyup Song, Ilsoo Kim, Jae Yi Kim, Sun Im, Feasibility of Sarcopenia Diagnosis Using Stimulated Muscle Contraction Signal in Hemiplegic Stroke Patients, Brain & Neurorehabilitation, May. 2024.

