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Your Target Call

HORIZON-CL4-2027-04-DIGITAL-EMERGING-05 Apply AI:
 AI-Driven Robotics for Industry: Enabling System Integration and Adoption

Your Expected Contribution to the Project / Consortium

Our consortium will design a Physical AI Platform to support manufacturing across various domains. The platform consists of physical platform and digital platform which are intertwined through standardized interfaces. In the project, I will lead designing the physical/digital architecture and data standards from a data processing view in collaboration with various partners, software developers, AI modelers, and manufacturers.

Biography

Dr. Kibae Kim is an Assistant Professor in the AIX School at Gwangju Institute of Science and Technology. He received his B.Sc. degree from the Physics Department of Korea Advanced Institute of Science and Technology (KAIST), South Korea, in 2003 and his Ph.D. in Engineering from the Technology Management, Economics and Policy Program (TEMEP) of Seoul National University in 2010. He was the Director of Research Division at Tmax Group, Inc. He was also a principal researcher within the Fourth Industrial Revolution Intelligence Center at KAIST and a fellow at the World Economic Forum's Centre for the Fourth Industrial Revolution. Moreover, he was a research professor at KAIST and Seoul National University, and a post-doctoral scholar at the Technical University of Braunschweig. Dr. Kim's research interest is empirical and numerical network analysis of collective intelligence in information systems such as IT services, social networks, and media services. In particular, Dr. Kim is interested in ecosystems of enterprises using AI platforms for open innovation. His research suggests strategies and policies for the efficient design of network markets.

Research Areas / Expertise

Data Analysis for Strategic Management, esp. Technology Convergence Digital Transformation, Technology-Regulation Gap, and Social Impact

Development of Digital Twins for Sustainable Development Goals, Specialized in Urban Planning, Agriculture, and Climate Change.

Motivation, Expectation and Plan

My goal is to design Physical AI's digital and physical platforms to apply Physical AI to manufacturing domains. The AI transformation will enhance the business ecosystem in the region and connect it to another business ecosystems across the world.