



Sungshin Women's University School of AI Convergence



Introduction

School of AI Convergence was established in 2021 to lead the Fourth Industrial Revolution era by nurturing professionals in AI and IoT convergence practices. The department aims to provide systematic education on practical AI theories and the latest methodologies. The department offers two majors, AI and Intelligent IoT, providing a common foundation in computer science and essential AI subjects. In the AI major, students build upon their basic knowledge of the latest computers and IT to acquire expertise in deep learning theories and contemporary AI development methodologies. We emphasize how to develop practical problem-solving skills through AI application labs based on real-world cases. Similarly, in the Intelligent IoT major, students learn theories and foundational technologies necessary for IoT service implementation in various areas such as IoT product development, smart homes, smart farms, and smart appliances. The curriculum builds on a foundation in computer science and IT, fostering the ability to prototype IoT services. The convergence of both majors equips students to learn methodologies for collecting and refining big data generated in IoT fields and analyzing core insights. Through industry-academic projects and on-site internships, students are nurtured into creative problem-solving professionals, aiming to graduate as competitive experts with the skills demanded by future industries.

Educational Objectives

- Cultivate foundational knowledge and practical skills as College of Engineering students.
- Nurture professionals who can lead the Fourth Industrial Revolution through specialized curricula in AI, IoT, and their convergence, fostering both expertise and creativity.
- Foster creative problem-solving individuals through industry-academic projects and on-site internships.
- Graduate practical professionals adaptable to the industry through entrepreneurship programs.

Qualities of Graduates

- Global leaders with specialized knowledge in AI and IoT, possessing international sensibilities.
- Talented individuals with leadership skills to pioneer the emerging industries of AI and IoT.
- Creative individuals capable of integrating IT, AI, and IoT technologies.

Professors



Kim, Dohyung

Research Areas	Programming Language, Compiler
Subjects	Algorithm
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Professors



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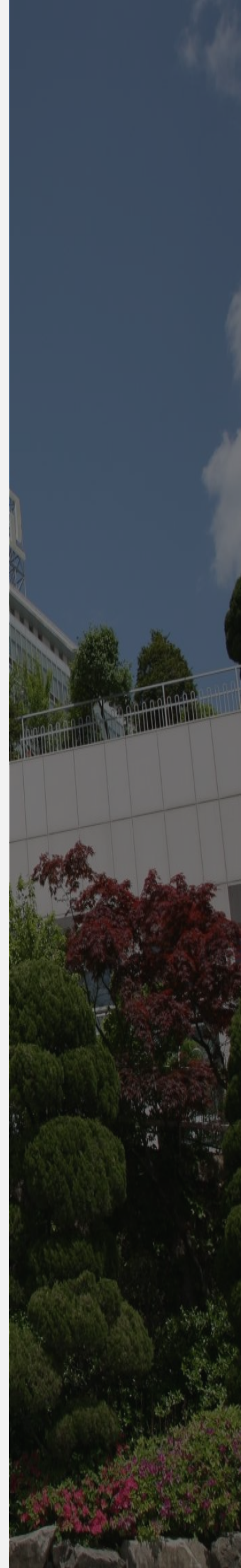
Kim, Joonyoung

Research Areas	Robotics and Virtual Reality Platform Integration, Vehicle Communication, Mobility Service
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Professors



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Curriculum : Tracks

	Connected System Track	Artificial Intelligence System Track
1 Division	Introductory Statistics Introduction to IoT and Electronic Engineering	
2 Division	IoT Creative Design Micro Controller Application and Practice	Advanced Python Programming Artificial Intelligence Machine Learning
3 Division	IoT Service Design Mobility Service	Deep Learning Reinforcement Learning
4 Division	Introduction to Metaverse and Related Applications IoT Connectivity	Game AI Autonomous Mobility System Generative AI Project
Course		
Career and Related Occupations	IoT System Design and Developer Big Data Analysis Researcher	AI Core Developer AI Application Engineer

* View All Courses: <https://sugang.sungshin.ac.kr/> (Language : English)

Curriculum : Tracks

	AI Image Service Startup Track	IoT Platform Service Technology Startup Track
1 Division		Introduction to Information Technology Mathematics for Digital Systems Introduction to Software Convergence Technology
2 Division	Machine Learning Deep Learning Computer Graphics	Computer Network Digital Circuit and Practice Micro Controller Application and Practice
3 Division	Digital Signal Processing Computer Vision	Cloud Computing AI Big Data Analysis Mobility Service
4 Division	Game AI Generative AI Project Capstone Design	IoT Connectivity Capstone Design Introduction to Metaverse and Related Applications
Course	Startup Capstone Design Startup & Career Planning Start-up Trend Start-up Practice	Startup Capstone Design Startup & Career Planning Start-up Trend Start-up Practice
Career and Related Occupations	Machine Learning Deep Learning Specialist Video and Graphics Engineer	Mobility Services Specialist Robotics Service Product Manager

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Sungshin Women's University

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