



INHA UNIVERSITY
AI Convergence Research Center
AI Graduate School



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◉ Director's Profile



Director, **In Kyu Park**

PROFILE

- Ph.D. in Engineering, Seoul National University
- Professor, School of Electrical and Electronic Engineering, Inha University (2004 ~ Present)
- Visiting Scholar, UCSD (2018~2019)
- Visiting Associate Professor, MIT Media Lab (2014~2015)
- Researcher, Mitsubishi Electric Research Laboratories (2007~2008)
- Member of Technical Staff, Samsung Advanced Institute of Technology (2001~2004)
- Research Areas: Computer Vision, Graphics, Deep Learning
- Website: <http://image.inha.ac.kr>

◉ Message from the Director

AI Innovation Hub Driving Incheon's Industry Growth

The AI Convergence Research Center at Inha University was established in April 2020 after being selected for the Ministry of Science and ICT's AI Convergence Research Center project. In May 2022, the center was additionally selected for the AI Convergence Innovation Graduate School project, solidifying its dual role as a convergence research center and a convergence graduate school.

We are the first specialized center in Incheon for AI research and education. Our center integrates AI with key regional industries, such as manufacturing, logistics, ports, and healthcare, to develop AI-converged talent and industry-academia collaboration. In collaboration with 58 partners, including Incheon Metropolitan City and Korean Air, we are advancing industry-academia-government cooperation to drive industrial innovation and disseminate AI technologies.

The Graduate School of AI Convergence at the center operates the AI program within the Department of Electrical and Computer Engineering, systematically producing around 50 AI specialists with master's and doctoral degrees each year. Our 24 faculty members provide high-quality instruction across 20+ core-AI courses, from foundational to advanced topics, and 30 specialized AI convergence tracks in areas like manufacturing, logistics, ports, and medical.

AI Convergence Research Center leverages Incheon's industrial strengths and Inha University's expertise to develop AI-converged talent and promote AI. We are committed to creating a platform linking local governments, industries, and universities for AI convergence research, driving regional industry growth as well as nationwide AI adoption.

Professor **In Kyu Park**,
Director of the AI Convergence Research Center
(Dept. of Electrical and Computer Engineering)

● Vision and Strategic Plan



- Regional hub convergence research center that connects universities and industries to develop AI talents and technology dissemination
- Train talents specialized in industrial innovation and enhance the competitiveness of industries
- Academy-Industry Twin: Advancing industry-academia collaboration for enhanced talent development



Scalable Big Data Sharing Platform	Industry-Academia Convergence Active Learning Platform	Sustainable Industry-Academia AI Convergence Platform	Scalable and shareable AI Convergence infrastructure
<ul style="list-style-type: none"> • AI+Perception Visual Perception Research • AI+Logistics Spatiotemporal Intelligence Research • AI+Prediction Time Series Forecasting Research • AI+Diagnosis Medical Data Analysis and Prediction Research 	<ul style="list-style-type: none"> • AI major programs training 50 master's and doctoral students annually • Training industry-AI specialized talent • Connecting curriculum with the Graduate School of Manufacturing and Logistics 	<ul style="list-style-type: none"> • Promoting collaboration with local companies • Operating industry-academia joint projects and creating workbooks • Enhancing two-way exchanges through internships, employment, and extracurricular activities School of Manufacturing and Logistics 	<ul style="list-style-type: none"> • Establishing AI infrastructure and sharing with the local community • Disseminate AI across various disciplines within the university • Tailored AI education programs for industry professionals

Platforms-Based Research, Education, and Industry-Academia Collaboration

- Big Data Sharing Platform : Development of data processing and integration technologies
- Industry-Academia AI Convergence Platform : AI Convergence Projects Course
- Active Learning Platform: Fostering AI Convergence experts aligned with **A⁵I : Active, Achievable, Adaptive, Affordable AI**

● Introduction to the AI Convergence Research Center

■ What is the AI Convergence Research Center?

Mission and Goals of the AI Convergence Research Center

The AI Convergence Research Center at Inha University aims to foster creative, multidisciplinary talent by integrating AI into diverse industries, including manufacturing, logistics, ports, and healthcare (AI+X), through converged research and education.



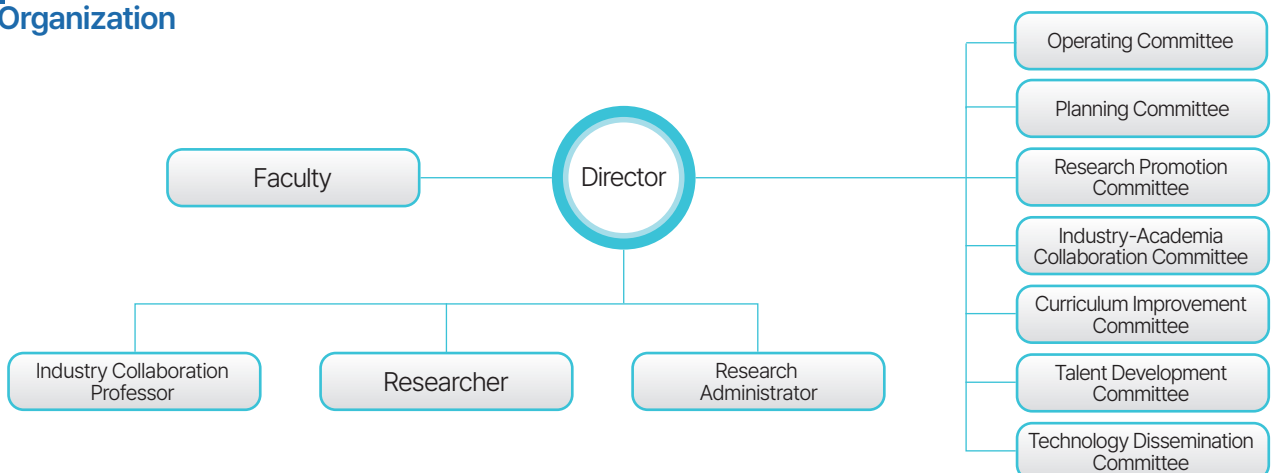
■ Role of the AI Convergence Research Center

- **Enhancing AI Convergence Research**
 Enhance “creative convergence (AI+X) research” tailored to industry specialization
- **Operating Curricula in AI Convergence**
 AI convergence curricula with a focus on project-based, problem-solving education
- **Strengthening Industry-Academia Collaboration**
 Strengthen AI convergence collaboration by securing top researchers and addressing industry needs
- **Supporting Commercialization and Consulting**
 Strengthen ‘Creative Convergence Capabilities’ by providing AI technology commercialization and application consulting, as well as internship programs, to meet the diverse AI needs across industries

■ History

- April 2020** - Selected for the Ministry of Science and ICT’s AI Convergence Research Center Support Project
- May 2020** - Signed agreement with the IITP and launched operations
 - Built dedicated website and logo, signed agreements with 22 partner institutions
- September 2020** - Established AI Major in the Graduate School’s Dept. of Electrical and Computer Engineering and AI Convergence Major in the College of Engineering at Inha University
- January 2021** - Established the AI Convergence Research Center administrative office, PBL lecture room, and server room
- April 2021** - AI Convergence Research Center opening ceremony
- May 2022** - Selected for the Ministry of Science and ICT’s AI Convergence Innovation Graduate School Project

■ Organization



Faculty and Research Staff

Faculty

AI-Core Faculty



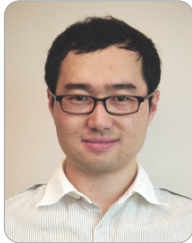
Doguk Kim
Assistant Professor,
Dept. of Artificial Intelligence

Ph.D., Korea Advanced Institute of Science and Technology
Research Interests: Machine Learning/Deep Learning Automation, Efficient Deep Learning, Computer Vision, Natural Language Processing
<http://sites.google.com/view/inha-aif-lab>



Byung Hyung Kim
Assistant Professor,
Dept. of Artificial Intelligence

Ph.D., Korea Advanced Institute of Science and Technology
Research Interests: Affective Computing, Brain-Computer Interface, Machine Learning
<http://affctiv.ai>



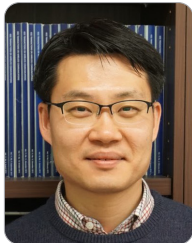
Youngsung Kim
Assistant Professor,
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Research Interests: Machine Learning, Deep Learning, Multimodal AI
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Yeongjin Kim
Assistant Professor, School of
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Daeyoung Park
Professor, School of Electrical and
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Research Interests: Machine Learning, Signal Processing
<http://spml.inha.ac.kr>



In Kyu Park
Professor, School of Electrical and
Electronic Engineering

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Research Interests: Computer Vision, Graphics, Deep Learning
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Seung-Hwan Bae
Associate Professor, Dept. of
Computer Science and Engineering

Ph.D., Gwangju Institute of Science and Technology
Research Interests: Computer Vision, Machine Learning
<http://cvi.inha.ac.kr>



Young-Duk Seo
Assistant Professor, Dept. of
Computer Science and Engineering

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Research Interests: Recommender systems, Data Mining, IoT
<http://sites.google.com/view/kdd-lab>



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Byung-Seok Shin
Professor, Dept. of Computer Science
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AI-Core Faculty



Jeong Seop Sim
Professor, Dept. of Computer Science
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Research Interests: Algorithms,
Bioinformatics
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Mun-Kyu Lee
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Bowon Lee
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Sunwoo Lee
Assistant Professor, Dept. of
Computer Science and Engineering

Ph.D., Northwestern University
Research Interests: Scalable Machine
Learning, Distributed Deep Learning,
Federated Learning
<http://sites.google.com/view/mls-lab>



Yongwoo Lee
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Privacy Protection
<http://crypto.inha.ac.kr>



Hongki Lim
Assistant Professor, School of
Electrical and Electronic Engineering

Ph.D., University of Michigan
Research Interests: Generative Model,
Image Processing, Computer Vision
<https://milab-inha.github.io>



Dong-Wan Choi
Associate Professor, Dept. of
Computer Science and Engineering

Ph.D., Korea Advanced Institute of Science
and Technology
Research Interests: Big Data, Data Mining
<http://bigdata.inha.ac.kr>



Wonik Choi
Professor, School of Electrical and
Electronic Engineering

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Research Interests: Data Intelligence,
Big Data, AI
<http://dilab.inha.ac.kr>

AI-Convergence Affiliated Faculty



Jong-Hyun Kim
Associate Professor, Dept. of Design Technology

Ph.D., Korea University
Research Interests: Physically-based Simulation, Game AI, Geometry Processing, Digital Twin
<https://sites.google.com/view/jhkim>



Daisik Nam
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Ph.D., University of California, Irvine
Research Interests: Smart Mobility, Digital Logistics, Transportation
<http://pytrans.github.io>



Minyoung Park
Professor, Asia Pacific School of Logistics

Ph.D., University of California, Irvine
Research Interests: Logistics System
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Seung-Buhm Woo
Professor, Dept. Ocean Sciences

Ph.D., Cornell University
Research Interests: Coastal and Port Engineering, Environmental Hydraulics
<http://codalweb.wixsite.com/mysite>



Hyun-Gyu lee
Assistant Professor, College of Medicine

Ph.D., Inha University
Research Interests: Medical AI
<http://hglee6.wixsite.com/inha-mai>

Industry Collaboration Professor/Researcher

Industry Collaboration Professor



Byeonghwan Jeon

Ph.D., Seoul National University
AI + Manufacturing Industry-Academia
Collaboration
Previous Position: Master, Device
Solutions, Samsung Electronics



Yan Li

Ph.D., Inha University
Curriculum Development Aligned with
Industry-Academia Needs
Previous Position: Teaching Professor,
Dept. of Computer Engineering,
Inha University

Researcher



Young Cheol Jeong

M.S., Inha University
Industry-Academia Collaboration in the
Field of Logistics and Research on the
Spread of AI



Byungho Jo

M.S., Inha University
Research and Development of AI
Infrastructure and Educational Platforms



Chaewook Lim

Ph.D., Inha University
Research on spreading AI in the field of
portal

Collaborative Partners

Institutions (6)



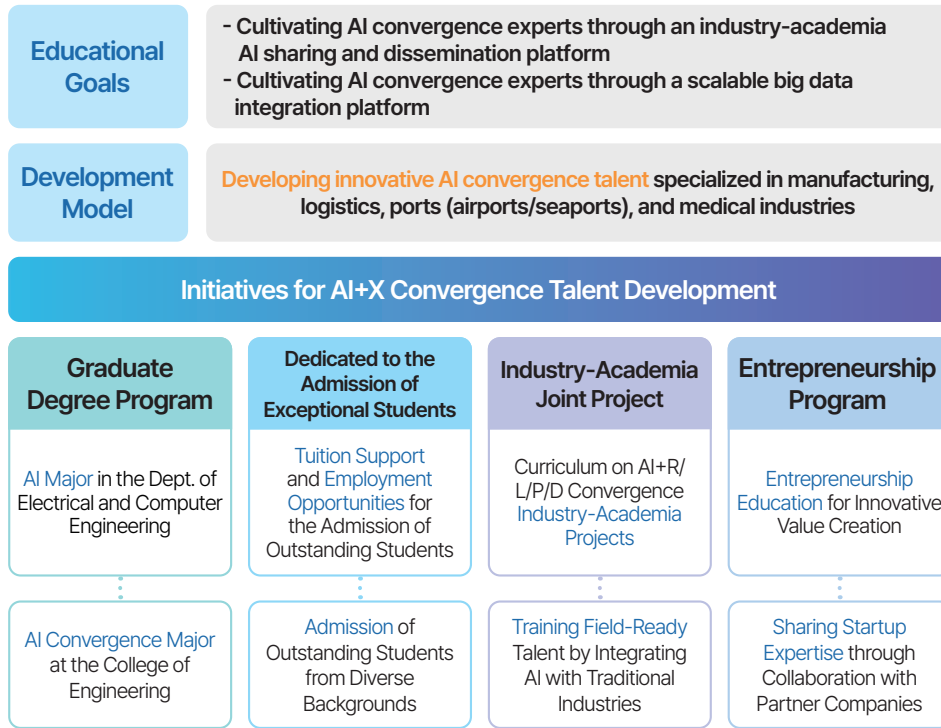
Companies (52)



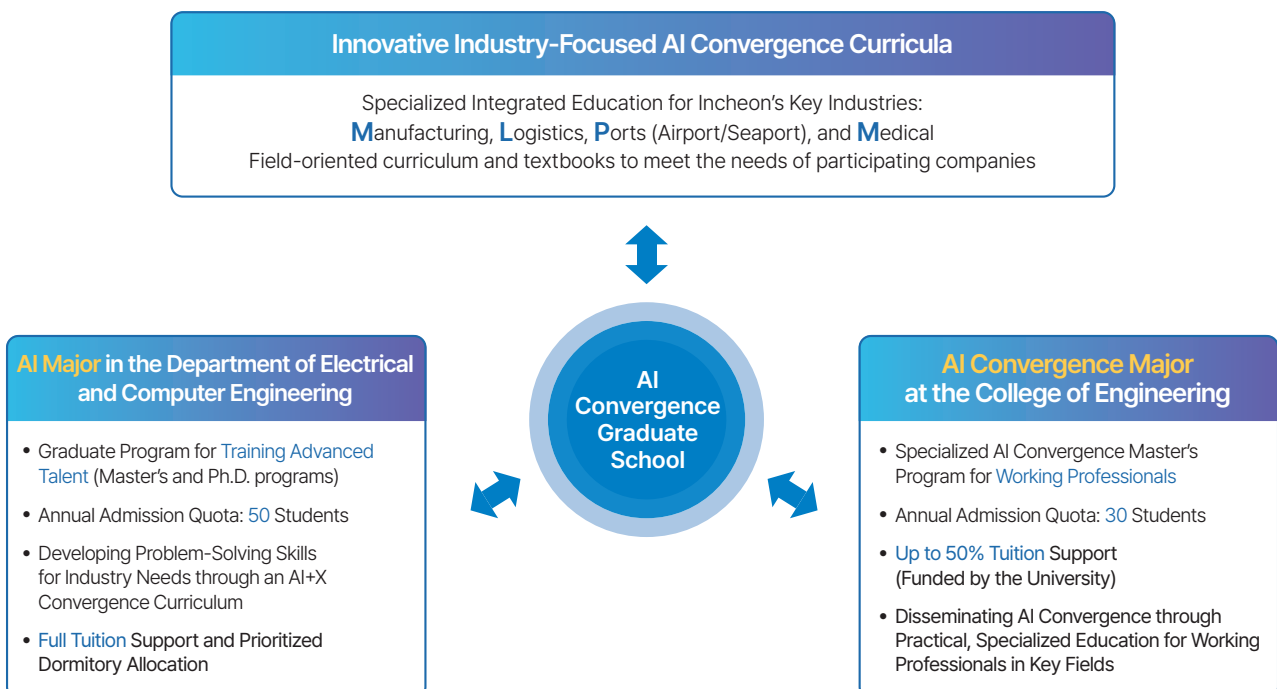
AI Convergence Graduate School

Educational Goals and Initiatives

- Cultivating AI convergence experts through an industry-academia AI sharing and dissemination platform
- Cultivating AI convergence experts through a scalable big data integration platform

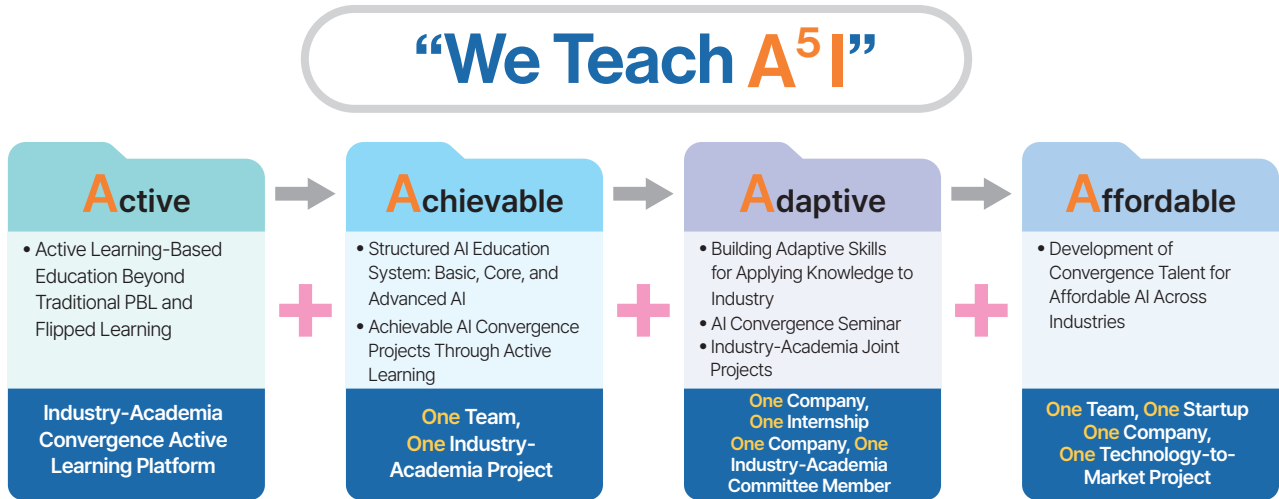


Graduate Program Overview



Education Model

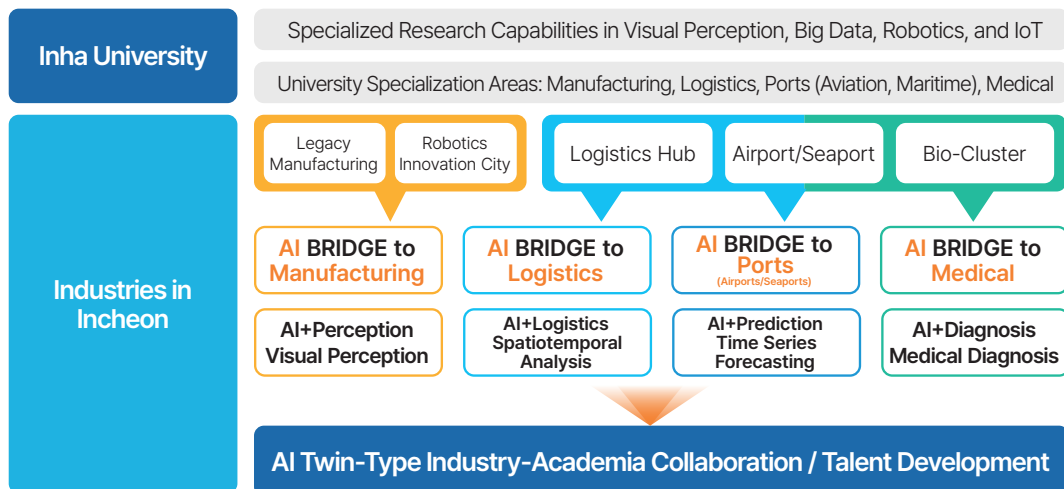
- Training high-level talent with practical experience in AI convergence applied to industry



Educational Model for the AI Convergence Graduate School

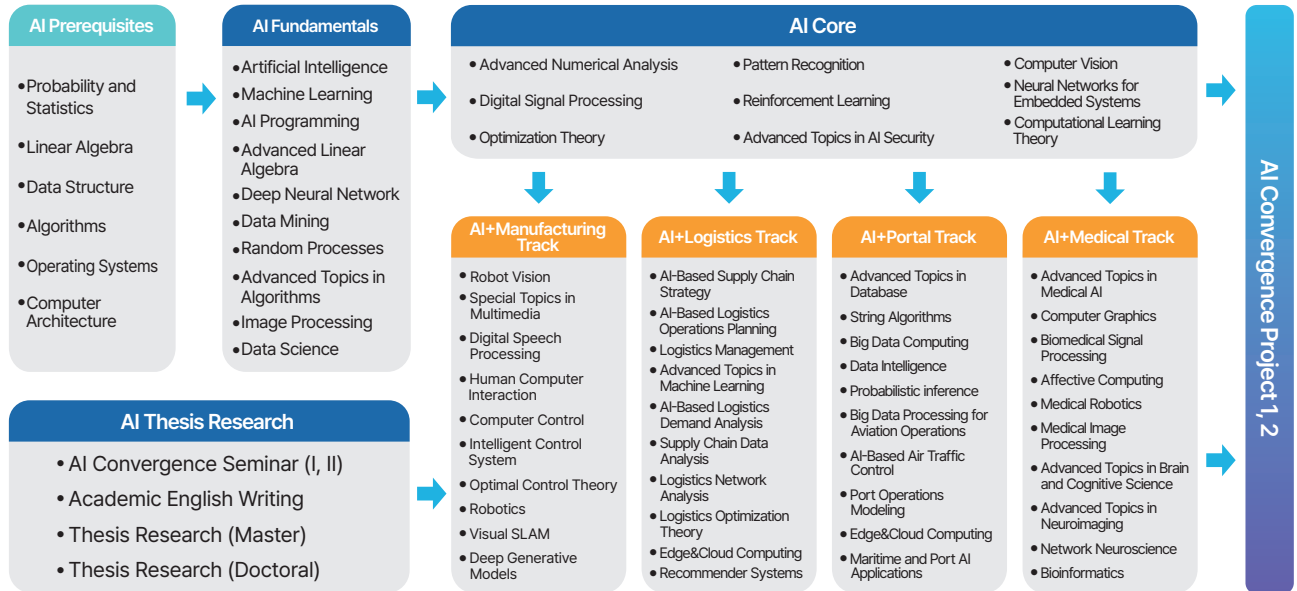
Specialized Areas

- **Manufacturing (AI+R)** : Core technologies for smart manufacturing and factories, focusing on visual perception
- **Logistics(AI+L)** : AI-based smart management and consumer logistics
- **Ports(AI+P)** : Predictive AI for aviation and maritime
- **Medical(AI+D)** : AI for biosignal and medical imaging in clinical settings



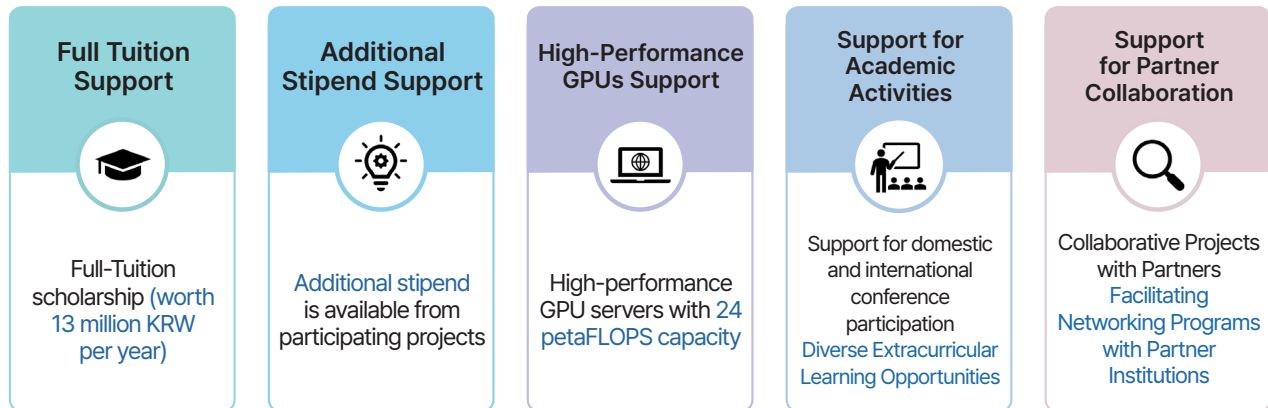
- ▶ Manufacturing, logistics, ports, and medical are designated as specialized areas, building on the strengths of Inha University and Incheon

Curriculum



Curriculum of AI Major in the Dept. of Electrical and Computer Engineering

Student Support Program



Key Activities

AI Graduate School Symposium

- Participated in the "AI Graduate School Symposium" organized by the AI Graduate School Council and IITP
- Discussion with industry and academic experts on AI industry-academia collaboration and talent development strategies



Faculty Workshop

- Faculty workshop to share research and upcoming projects within the center



Industry-Academia Collaboration Workshop

- Workshop on AI research and industry trends, focusing on collaboration in education, research, and talent exchange



Industry-Academia Collaboration Meeting

- Regular meetings to share industry trends, exchange information, promote AI, and address company challenges



Major Projects and Achievements

AI Computing Server

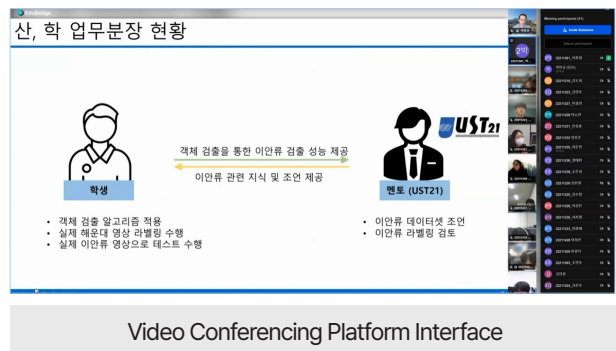
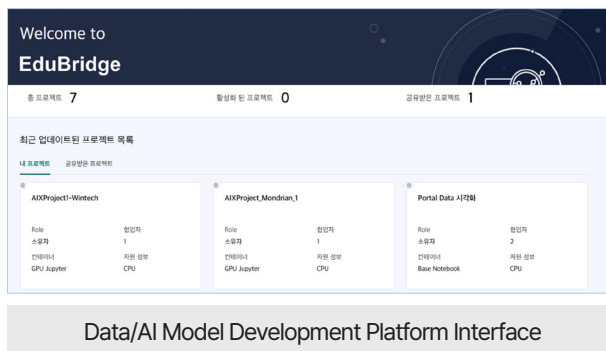
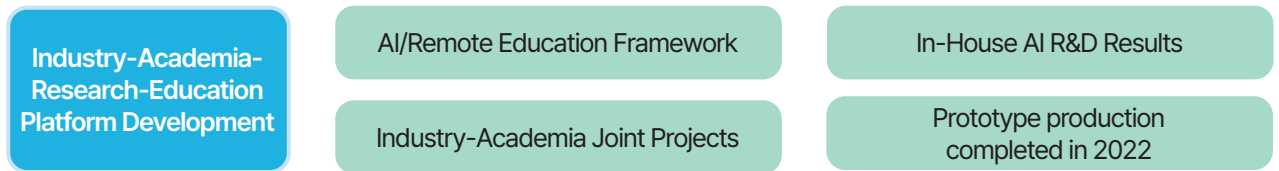
- Data center-grade GPUs infrastructure (NVIDIA A100, A6000, A40, V100) and small-group GPUs servers
- In collaboration with Incheon Metropolitan City, established a "24 petaFLOPS" AI computing center to support researchers at Inha University, partner institutions, local organizations in Incheon



AI Industry-Academia Collaboration and Education Platform

- Jointly establishing an Industry-Academia AI Convergence Platform and an Industry-Academia Active Learning Platform in collaboration with our partner company, MondrianAI

Industry-Academia Convergence AI Platform	AI-based Active Learning Education Platform
<ul style="list-style-type: none"> • Industry-Academia AI Platform for Disseminating AI Convergence Technology <ul style="list-style-type: none"> - Building a foundation for systematic and sustainable online collaboration between the center and companies - Scalable 'Big Data Sharing Platform' that provides a foundation for processing and integrating data from companies 	<ul style="list-style-type: none"> • AI online education platform designed for active and interactive user participation <ul style="list-style-type: none"> - Fundamental online education features (Support for audio, video, collaborative text editing, online discussion sessions, etc.) - Feedback loop where students actively engage in the lecture content, which is then integrated back into the platform



Industry-Academia Collaboration

• AI Help Desk, AI Tech Clinic


"AI Help Desk" and "AI Tech Clinic" forums are operated on the Center's website (<https://aix.inha.ac.kr>)

AI Help Desk



Addressing AI challenges for university researchers and industry partners, and serving as a hub for technology integration

AI Tech Clinic



Providing AI consulting to both university and external industry partners

• Hanjin AI Academy

- Delivered AI education in collaboration with Hanjin Information & Communication and Korean Air
- Offered practical machine and deep learning courses for Hanjin Group's staff and executives

인공지능융합연구센터, 실무형 인재 양성 위한 '한진 AI 아카데미' 실시

한진정보통신·대한항공과 산학협력 통해 한진 그룹사 대상 AI 교육 실시
실무에 적용할 수 있는 딥러닝·머신러닝 특별 커리큘럼 강의



▲ 대한항공 본사에서 백인규 인공지능융합연구센터장이 대한항공 AI 아카데미 임원과정 강의를 진행하고 있다.

본교 인공지능융합연구센터가 한진 그룹사 임직원 230여 명을 대상으로 지난 7월 6일과 12일, 13-15일, 27-29일 4차례에 걸쳐 '한진 AI 아카데미'를 진행했다.

한진 AI 아카데미는 작년 하반기부터 한진정보통신과 연구센터가 한진 그룹사 내 AI 도입 활성화 및 AI 실무형 인재 양성을 위해 공동으로 추진하는 프로그램이다. 지난 2월에는 한진그룹 계열사 및 협력사 실무진을 대상으로 '딥러닝·머신러닝 초급과정'을 두 차례 실시한 바 있다.

연구센터 참여 교수진들은 산업계 실무에 적용할 수 있도록 체계적이고 전문적인 특별 커리큘럼을 개발해 딥러닝·머신러닝에 대한 기초 이론과 실무과정을 직접 강의했다.



AI Course for Korean Air Staff and Executives



Basic-AI Course for Hanjin Group Staff

AI Convergence Research Project

- Students, industry mentors, and professors collaborate on industry-sourced mini projects to address real-world demands
- Enhancing students' practical AI expertise and industry adaptability through industry-academic projects
- Data management, AI model development, and video conferencing are conducted on our internally developed AI platform

The JoongAng 2022년 03월 22일 수요인 C04면 특집

산학연계 '인공지능융합프로젝트' 운영

인하대학교

인하대학교는 인공지능융합연구센터 주도로 진 기컴퓨터공학과 인공지능전공 대학원생을 대상으로 산학연계 '인공지능융합프로젝트' 교과목을 운영한다. [사진 인하대]

인하대학교는 인공지능융합연구센터 주도로 진 기컴퓨터공학과 인공지능전공 대학원생을 대상으로 산학연계 '인공지능융합프로젝트' 교과목을 운영한다고 밝혔다.

인공지능융합프로젝트는 산업체 수요를 반영 한 인공지능 관련 문제해결형 프로젝트 주제를 발 굴에 대학원생·지도교수·산업체 멘토가 팀을 이뤄 협업하는 방식으로 진행된다. 메 학기 전공필수 과 목으로 개설되며, 이번 1학기는 총 2개의 대학원 학생이 13명의 지도교수 및 8개 산업체의 멘토와 14개의 산학 프로젝트를 팀 단위로 수행한다. 학생 들은 산업 현장에서 발생하는 과제를 해결함으로써 산업체에 솔루션을 제공하고, 학위 취득 후 산 업체 적응력을 높일 수 있을 것으로 기대한다.

특히 이 교과목에 인하여 인공지능융합연구센터가 자체 개발한 인공지능 플랫폼을 도입해 눈길을 끈다. 센터는 지난 2년간 인공지능 교육 및 산학 프로젝트 수행을 위해 참여 교수와 협력기관인 문 드리안(에이아이)와 공동으로 '인하 인공지능 플랫폼'을 개발했다. 플랫폼을 이용하면 교수와 수강생 이 공동으로 인공지능 모델을 개발하고 학습하면 서 산학협력 프로젝트를 원격 진행할 수 있고, 학습 데이터를 효과적으로 저장·관리·시각화하며, 실시간 화상으로 비·면접 면접을 수행할 수 있다.

인공지능융합연구센터는 자체 개발한 인공지능 플랫폼과 센터가 보유한 고성능 GPU 자원을 동시에 활용해 산학연계 프로젝트를 교육과 연구 측면에서 수행할 수 있는 모드를 마련했다. 향후 인공지능 플랫폼을 교내외로 확산해 다방면에서 활용될 수 있도록 할 계획이다.

박인규 인하대 인공지능융합연구센터장은 "이 과목을 통해 산학이 윈윈(win-win)할 수 있는 발전 계기를 마련하고, 산업체에 필요한 인공지능융합 혁신인재를 양성하는 데 큰 도움이 될 것이다" 라고 말했다.

김승중 중앙일M&P 기자
kim.seungjoo@joongang.co.kr



Industry-academic project company site visit



The project class screen using an artificial intelligence platform

AI Convergence Seminar

- Offered as a regular graduate course, expert-led seminars on various AI-related topics are held each semester
- Opening the seminar to local institutions and the broader local community, contributing to the spread of AI education

인하대학교 인공지능융합연구센터 / ABBi 인공지능융합센터 / BK21 인공지능교육연구단 공동주관

인공지능융합연구센터 2023-2학기 인공지능융합세미나 개최 안내

매주 화요일 오후 6시 40분 ~ 7시 40분 온라인(Zoom) 강의

인공지능융합연구센터는 최신 인공지능 기술의 연구동향 및 산업계 트렌드를 소개하고 교내외의 기술 확산 및 교류 활성화를 위한 융합세미나를 정기적으로 개최하오니 많은 관심과 참여 바랍니다.

연차	날짜	연사	소속/직급	주제
1	8월 29일	연사	(주)인하대학교	오리엔테이션
2	9월 12일	박정규	(주)인하대학교	인공지능융합연구센터 소개
3	9월 19일	이유진	연사	인공지능융합연구센터 소개
4	9월 26일	박정규	연사	인공지능융합연구센터 소개
5	10월 3일	김정민	연사	인공지능융합연구센터 소개
6	10월 10일	김정민	연사	인공지능융합연구센터 소개
7	10월 17일	김정민	연사	인공지능융합연구센터 소개
8	10월 24일	김정민	연사	인공지능융합연구센터 소개
9	10월 31일	김정민	연사	인공지능융합연구센터 소개
10	11월 7일	김정민	연사	인공지능융합연구센터 소개
11	11월 14일	김정민	연사	인공지능융합연구센터 소개
12	11월 21일	김정민	연사	인공지능융합연구센터 소개
13	11월 28일	김정민	연사	인공지능융합연구센터 소개

"인공지능융합세미나 강의는 Zoom ID : 951 2186 5080 로 참석바랍니다."
문의: 인공지능융합연구센터 조현주(032-860-9453 / hun2753@inha.ac.kr)

인하대학교 인공지능융합연구센터 / ABBi 인공지능융합센터 / BK21 인공지능교육연구단 공동주관

인공지능융합연구센터 2024-1학기 인공지능융합세미나 개최 안내

매주 화요일 오후 6시 40분 ~ 7시 40분 온라인(Zoom) 강의

인공지능융합연구센터는 최신 인공지능 기술의 연구동향 및 산업계 트렌드를 소개하고 교내외의 기술 확산 및 교류 활성화를 위한 융합세미나를 정기적으로 개최하오니 많은 관심과 참여 바랍니다.

연차	날짜	연사	소속/직급	주제
1	3월 5일	황민준	아주대학교 / 부교수	Knowledge Distillation 기술동향 소개
2	3월 12일	임태웅	아트델 / 대표	시시스템 통합: 데이터부터 서비스까지
3	3월 19일	이유진	네이버 / 데이터과학자	생성형 AI (Gen AI)와 새로운 검색 경험
4	3월 26일	조성우	퀴리스트 실험연구소 / 소장	최대 예산
5	4월 2일	권해란	물류연방 / 대표	기술창업가, 누구나 될 수 있다.
6	4월 9일	홍상현	오리엔트대학교 / 조교수	시스템 보안 관점에서 바라본 신형성 있는 기계 학습
7	4월 16일	송진영	대구경북과학기술원 / 조교수	인간-기계 협업 향상을 위한 하이브리드 지능 시스템 구축
8	4월 30일	박재원	경희대학교 / 조교수	협업 사이버 표현식 기법: AI 및 소프트웨어 표현식
9	5월 7일	최원우	스탠포드대학교 / 연구원	신경망과 인공지능 기반 노-컴퓨터 인터페이스
10	5월 14일	배수현	포도노스 / 대표	생성형 AI 시장과 스타트업의 기회
11	5월 21일	홍지수	삼성메디슨 / 연구원	의료 인공지능
12	5월 28일	박세훈	물산과학기술원 / 조교수	모두를 위한 안전한 AI
13	6월 4일	조현우	인하대학교 / 조교수	인공지능 기반 의료영상 분석과 알 진단

"인공지능융합세미나 강의는 Zoom ID : 606 729 9496 로 참석 바랍니다."
문의: 인공지능융합연구센터 조현주(032-860-9453 / hun2753@inha.ac.kr)

AI Dissemination Research Program

- AI Model Development Challenge for Inha University Students on Selected AI Topics
- Fosters collaboration and strengthens research capabilities across IT and non-IT faculty
- Hosts a symposium for sharing research outcomes

2022
AI
Dissemination
Research
Program

2022-1학기 AI 확산연구회 공모 안내

인하대학교 인공지능융합연구센터에서는 교내 인공지능 기술의 확산과 관심 증대를 위하여 교수님들의 소그룹 활동에 기반한 AI 확산연구회 프로그램을 운영합니다. 인공지능과 관련된 주제를 자유롭게 선택하여 다양한 학문 분야의 연구 및 교육에 인공지능 기술이 전파될 수 있도록 교수님들의 많은 관심과 참여 부탁드립니다.

모집기간 2022년 2월 3일(목) ~ 2월 18일(금)

모집대상 본교 전임교원 (10개팀 선발, 팀당 3~5인으로 구성)
※ 전공 분야는 상관 없으나, 인공지능 관련 연구분야 교수 반드시 포함
※ 1인 1팀 소속이 원칙이며, 중복 신청 불가

활동기간 2022년 3월 1일(화) ~ 8월 31일(수)

공모주제	신청방법 및 결과발표
<ul style="list-style-type: none"> 인공지능 기술의 전 학문 분야와의 융합 가능성 탐색 인공지능 기술과 대학 교육 융합(비대면 및 교수법 응용 등) 대학 내에서 인공지능 기술의 활용과 관련된 자유주제 	<ul style="list-style-type: none"> 신청서(신청 양식)를 작성하여 aix@inha.ac.kr로 제출 이메일(aix2021@inha.ac.kr)로 제출 신청일 발표 : 2022년 2월 29일(금) 예정 (기타에 따라 변경) 자세한 사항은 인공지능융합연구센터 홈페이지(aix@inha.ac.kr) 참조
혜택 및 의무사항	문의
<ul style="list-style-type: none"> 팀당 300만원 활동비 지원 (최우수 연구회는 100만원 추가 지원) 결과보고서작성 장려금 제공 프로그램 종료 시까지 4회 이상의 모임 운영 (비대면 가능) 신청서(결과발표)를 참석 및 발표 	<ul style="list-style-type: none"> 인공지능융합연구센터 센터장 032-860-9473, aix2021@inha.ac.kr

인하대학교
인공지능융합연구센터



2023
AI
Dissemination
Research
Program

2023-1학기 AI 확산연구회 공모 안내

인하대학교 인공지능융합연구센터에서는 교내 인공지능 기술의 확산과 관심 증대를 위하여 교수님들의 소그룹 활동에 기반한 AI 확산연구회 프로그램을 운영합니다. 인공지능과 관련된 주제를 자유롭게 선택하여 다양한 학문 분야의 연구 및 교육에 인공지능 기술이 전파될 수 있도록 교수님들의 많은 관심과 참여 부탁드립니다.

모집기간 2023년 2월 1일(수) ~ 2월 17일(금)

모집대상 본교 전임교원 (10개팀 선발, 팀당 3~5인으로 구성)
※ 전공 분야는 상관 없으나, 인공지능 관련 연구분야 교수 반드시 포함
(단, IT개발 역량 교수님으로 이루어진 팀 구성 지원)
※ 교내 우수 프로젝트(최우수연구회) 참가 및 공동연구 팀 구성 불가
※ 1인 1팀 소속이 원칙이며, 중복 신청 불가

활동기간 2023년 3월 1일(수) ~ 8월 31일(목)

공모주제	신청방법 및 결과발표
<ul style="list-style-type: none"> 인공지능 기술의 전 학문 분야와의 융합 가능성 탐색 인공지능 기술과 대학 교육 융합 (비대면 및 교수법 응용 등) 대학 내에서 인공지능 기술의 활용과 관련된 자유주제 	<ul style="list-style-type: none"> 신청서(신청 양식)를 작성하여 aix@inha.ac.kr로 제출 이메일(aix2023@inha.ac.kr)로 제출 신청일 발표 : 2023년 2월 24일(금) 예정 (기타에 따라 변경) 자세한 사항은 인공지능융합연구센터 홈페이지(aix@inha.ac.kr) 참조
혜택 및 의무사항	문의
<ul style="list-style-type: none"> 팀당 300만원 활동비 지원 (최우수 연구회는 100만원 추가 지원) 결과보고서작성 장려금 제공 프로그램 종료 시까지 4회 이상의 모임 운영 (비대면 가능) 신청서(결과발표)를 참석 및 발표 	<ul style="list-style-type: none"> 인공지능융합연구센터 센터장 032-860-9473, aix@inha.ac.kr

인하대학교
인공지능융합연구센터



AI Entrepreneurship Seminar and Startup Cases

- Offers foundational knowledge and pre-experience for aspiring entrepreneurs
- Invite renowned CEO-level speakers and present the latest AI trends to increase educational engagement
- Promote outstanding startup cases to stimulate entrepreneurial activities among students and faculty

2023
AI
Entrepreneurship
Seminar

I 인하특강 : CEO와 기업가정신
WHERE WOULD I BE IN FIVE YEARS?
"5년 후 나는 어디에 있을 것인가!"

- 강연자 : 바로 AI 이용덕 대표
- 일시 : 2023. 09. 12. 화요일 오후 2시
- 장소 : 본관 대강당 하나홀

- PROFILE -

2021-현재	교수, 석남대학교 Art & Technology
2019-현재	Founder & CEO, (주) 바로 AI
2018-현재	Founder & CEO, (Dream N Future) Labs
2018-2021	전 교수, 이화여자대학교
2006-2018	전 이사장, NVIDIA KOREA

5년 후 나는 어디에 있을 것인가
박병욱 대표가 말하는 미래의 성공 비결

5년간 성공을 위한 100가지 질문
이것이 바로 성공의 비결이다
박병욱 대표가 말하는 미래의 성공 비결



Student-Faculty
Startup Cases

인하대 인공지능융합연구센터, 첫 학생창업사례 배출
로봇, 인공지능의 시대, 물류 산업을 바꾸는 로비고스

2023년 07월 12일 (월) 16:58:17 | 학과: robot@robotnews.com

AI 융합형 인재양성과 기술확산의 허브

ROVIGOS

▲ 인공지능융합연구센터의 첫 학생 창업팀 ROVIGOS(로비고스) 팀원들과 (순복에서 5번째)이보원 전자공학과 교수, 박인규 인공지능융합연구센터장.

인하대 인공지능융합연구센터가 첫 학생 창업사례로 물류 로봇자동화 및 AI 알고리즘 분야 스타트업 '로비고스(ROVIGOS)'를 배출했다.

인공지능융합연구센터는 학생창업자가 학업과 사업을 병행할 수 있도록 학생연구자 지원 가이드라인을 마련하여 창업 학생에게도 장학금을 지원하고 있으며, 학생 창업 활성화를 위하여 'AI 창업캠프' 프로그램을 운영하고 있다.

기사 > 전제거사

인하대 창업기업 딥카디오 40억 규모 투자유치 성공

인공지능으로 심장 진단하는 기업
인하대병원 등과 협약

입력 : 2022-02-17 11:48

인하대학교 창업보육센터(김현태인하대창업센터) 딥카디오 사무실에서 최영익 대표이사(인하대 정보통신공학과 교수) 김대혁 대표이사(인하대병원 심장내과 교수), 백용수 의학CTO(인하대병원 심장내과 교수), 이상철 공학CTO(인하대 컴퓨터공학과 교수)가 기념촬영을 하고 있다. 인하대 제공

인하대학교(총장 조영우)는 창업보육센터 입주기업인 딥카디오(DeepCardio)가 벤처 창업 및 연구 기술의 임상적 가치를 인정받아 소프트뱅크벤처스, 데일리파티스로부터 40억원 규모의 시리즈A 투자 유치에 성공했다고 17일 밝혔다.

인공지능으로 심장을 진단하는 기업인 딥카디오는 2020년 11월 인하대학교 정보통신공학과 최영익 교수, 컴퓨터공학과 이상철 교수와 인하대병원 심장내과 김대혁, 백용수 교수가 공동으로 창립한 벤처기업이다. 창립 초기부터 의학박사들과 공학박사들의 진정한 융합으로 이력을 쌓았다. 2021년 3월에는 기술보증기금 Tech밸리 기업에 선정되기도 했다.

김대혁, 백용수 교수는 심장내과(부정맥), 최영익 교수는 인공지능과 빅데이터, 이상철 교수는 인공지능과 컴퓨터비전 분야의 권위자이다. 심장 관련 질환에 대한 인공지능 기술 접목에 강점을 가지고

Inha AI Challenge

- AI model development challenge for Inha university students on selected topics AI
- The challenge aims to increase interest in AI and develop more sophisticated AI models
- Organize industry-academia collaboration meetings between sponsoring companies and participating students

2022
Inha AI
Challenge

2022 인하 인공지능 챌린지 개최

시공간 데이터 예측 (Spatio-temporal data prediction)

접수 기간 2022. 6. 20(월) 10시 ~ 7. 22(금) 17시
접수처 데이콘 홈페이지 (QR코드 접속)

주제 시공간 데이터 예측
대상 인공지능에 관심있는 인하대 학부생·대학원생 팀 (팀당 2~5인)
※ 출학생 제외
※ 팀원 중 1인 이상 대학원생이 포함되어 있으면 "대학원생팀"으로 간주함
시상식 장소 60주년기념관 হল홀
대회 일정

대회기간	합승 데이터셋 공개	본대회	순위 발표	발표 및 시상
2022. 7. 1 ~ 7. 22	2022. 7. 1 오후 12시	2022. 7. 29 오후 2~4시	2022. 8. 5 오후 5시	2022. 8. 11 오후 1시

※ 대회 및 대회 관련 자세한 내용은 데이콘 홈페이지를 참고하여 주시기 바랍니다.

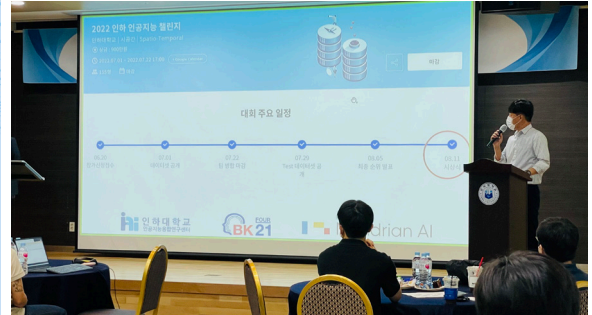
시상 내역

구분	대학원생 트랙	학부생 트랙	비고
대상	상장 및 상금 200만원 1팀	상장 및 상금 200만원 1팀	총장상
최우수상	상장 및 상금 100만원 1팀	상장 및 상금 100만원 1팀	센터장상
우수상	상장 및 상금 50만원 3팀	상장 및 상금 50만원 3팀	BK연구단장상

※ BK연구단장상은 BK-신용협회와 자체에 인공지능 혁신재 교직원구단장상이며, 센터장상은 인공지능융합연구센터장상을 지칭함

문의 인공지능융합연구센터 032-860-9472, inno3078@inha.ac.kr
데이콘 daicon@daicon.io

주관 **hi** 인하대학교 인공지능융합연구센터 | 후원 **BK21** | Mondrian AI



2023
Inha AI
Challenge

2023 인하 인공지능 챌린지 개최

멀티모달 데이터 기반 추천 시스템 (Multi-modal Recsys)

접수 기간 2023. 7. 3(월) 10시 ~ 8. 3(목) 오후 5시
접수처 데이콘 홈페이지(QR코드 접속)

주제 멀티모달 데이터 기반 추천 시스템
대상 인공지능에 관심있는 인하대 학부생·대학원생 팀 (팀당 2~5인)
※ 출학생 제외
※ 팀원 중 1인 이상 대학원생이 포함되어 있으면 "대학원생팀"으로 간주함
시상식 장소 60주년기념관 112호 [InHA Creative Space]
대회 일정

합승 데이터셋 공개	대회기간	코드 제출	순위 발표	시상식
2023. 7. 4(화) 오후 12시	2023. 7. 4(화) 오후 12시 ~ 8. 7(월) 오후 5시	2023. 8. 7(월) 오전 7시	2023. 8. 8(화) 오전 11시	2023. 8. 11(금) 오후 1시 30분

※ 대회 및 대회 관련 자세한 내용은 데이콘 홈페이지를 참고하여 주시기 바랍니다.

시상 내역

구분	대학원생 트랙	학부생 트랙	비고
대상	상장 및 상금 200만원 1팀	상장 및 상금 200만원 1팀	총장상
최우수상	상장 및 상금 100만원 1팀	상장 및 상금 100만원 1팀	센터장상
우수상	상장 및 상금 50만원 3팀	상장 및 상금 50만원 3팀	BK연구단장상

※ BK연구단장상은 BK-신용협회와 자체에 인공지능 혁신재 교직원구단장상이며, 센터장상은 인공지능융합연구센터장상을 지칭함

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주관 **hi** 인하대학교 인공지능융합연구센터 | 후원 **BK21** | Mondrian AI



● Research Highlights and Rewards

- 157 high-impact publications over the past five years (as of August 2024)
- 62 publications in top conferences and JCR top 10% journals

■ Publications in journals ranked in the top 10% of the JCR

- Seunghyun Lee and **Byung Cheol Song**, "Fast filter pruning via coarse-to-fine neural architecture search and contrastive knowledge transfer," **IEEE Transactions on Neural Networks and Learning Systems**, 2024
- Seokho Ahn, Hyungjin Kim, Euijong Lee and **Young-Duk Seo**, "SenDaL: An effective and efficient calibration framework of low-cost sensors for daily life," **IEEE Internet of Things Journal**, 2024
- Yihuai Liang, Yan Li and **Byeong-Seok Shin**, "Dynamic authenticated keyword search in hybrid-storage blockchain," **Future Generation Computer Systems-The International Journal of eScience**, 2024
- Pyeongjun Choi, Dongho Ham, **Yeongjin Kim** and Jeongho Kwak, "VisionScaling: Dynamic deep learning model and resource scaling in mobile vision applications," **IEEE Internet of Things Journal**, 2024
- Yu Zhao, Yeongjin Kim and Joohyun Lee, "SOQ: Structural reinforcement learning for constrained delay minimization with channel state information," **IEEE Internet of Things Journal**, 2024
- Dohee Kang, Daeha Kim, Donghyun Kang, Taein Kim, **Bowon Lee**, Deokhwan Kim and **Byung Cheol Song**, "Beyond superficial emotion recognition: Modality-adaptive emotion recognition system," **Expert Systems with Applications**, 2024
- Zuyu Zhang, Yan Li, **Byeong-Seok Shin**, "Learning generalizable visual representation via adaptive spectral random convolution for medical image segmentation," **Computers in Biology and Medicine**, 2023
- Minsik Kim and **Daeyoung Park**, "Beamforming vector design and device selection in over-the-air federated learning," **IEEE Transactions on Wireless Communications**, 2023
- Ki-Hwan Kim, Myung-Seok Kim, Hye Min Lee, Myung Hwan Kim and **Seung-Buhm Woo**, "Dominant factors responsible for wave modulation in the macro-tidal Gyeonggi Bay of the Yellow Sea," **Ocean Engineering**, 2023
- **Seung-Hwan Bae**, "Deformable part region learning and feature aggregation tree representation for object detection," **IEEE Trans. on Pattern Analysis and Machine Intelligence**, 2023
- Seong-Ho Lee, Dae-Hyeon Park and **Seung-Hwan Bae**, "Decode-MOT: How can we hurdle frames to go beyond tracking-by-detection?," **IEEE Trans. on Image Processing**, 2023
- Kyungtae Lee, Jinhwi Kim, Jeongho Kwak and **Yeongjin Kim**, "Dynamic multi-resource optimization for storage acceleration in cloud storage systems," **IEEE Trans. on Services Computing**, 2023
- Myung-Seok Kim, **Seung-Buhm Woo**, Hyunmin Eom, Sung Hyup You and Hye Min Lee, "Towards observation-and atmospheric model-based early warning systems for meteotsunami mitigation: A case study of Korea," **Weather and Climate Extremes**, 2022
- Mincheol Kim, Ling Liu and **Wonik Choi**, "Multi-GPU efficient indexing for maximizing parallelism of high dimensional range query services," **IEEE Trans. on Services Computing**, 2022
- Hee-Yong Kwon and **Mun-Kyu Lee**, "Comments on "PassBio: Privacy-preserving user-centric biometric authentication"," **IEEE Trans. on Information Forensics and Security**, 2022
- Dae Ha Kim and **Byung Cheol Song**, "Deep metric learning with manifold class variability analysis," **IEEE Trans. on Multimedia**, 2022
- Vanchinbal Chinbat and **Seung-Hwan Bae**, "GA3N: Generative adversarial AutoAugment network," **Pattern Recognition**, 2022
- Youngjoon Kim, Youngho Kim and **Jeong Seop Sim**, "An improved order-preserving pattern matching algorithm using fingerprints," **Mathematics**, 2022
- **Yeongjin Kim**, Jaewhan Jeong, Suyoung Ahn, Jeongho Kwak and Song Chong, "Energy and delay guaranteed joint beam and user scheduling policy in 5G CoMP networks," **IEEE Trans. on Wireless Communications**, 2022

Publications in AI Top Conferences

- Seongho Kim and **Byung Cheol Song**, "All you need is your voice: Emotional face representation with audio perspective for emotional talking face generation," **European Conference on Computer Vision (ECCV)**, 2024
- **Sunwoo Lee**, "Layer-wise adaptive gradient norm penalizing method for efficient and accurate deep learning," **ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)**, 2024
- Ju-Hyeon Nam, Nur Suriza Syazwany, Su Jung Kim and **Sang-Chul Lee**, "Modality-agnostic domain generalizable medical image segmentation by multi-frequency in multi-scale attention," **IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)**, 2024
- Junhyuk Kwon, Seokho Ahn and **Young-Duk Seo**, "ReckG: Knowledge graph for recommender systems," **ACM/SIGAPP Symposium on Applied Computing (SAC)**, 2024
- Haneol Kang and **Dong-Wan Choi**, "Recall-oriented continual learning with generative adversarial meta-model," **AAAI Conference on Artificial Intelligence (AAAI)**, 2024
- Hyunjune Shin and **Dong-Wan Choi**, "Teacher as a lenient expert: Teacher-agnostic data-free knowledge distillation," **AAAI Conference on Artificial Intelligence (AAAI)**, 2024
- Seewoo Lee, Garam Lee, Jung Woo Kim, Junbum Shin and **Mun-Kyu Lee**, "HETAL: Efficient privacy-preserving transfer learning with homomorphic encryption," **International Conference on Machine Learning (ICML)**, 2023
- Seong-Woong Kim and **Dong-Wan Choi**, "Better generalized few-shot learning even without base data," **AAAI Conference on Artificial Intelligence (AAAI)**, 2023
- Sangtae Kim, **Daeyoung Park** and Byonghyo Shim, "Semantic-aware superpixel for weakly supervised semantic segmentation," **AAAI Conference on Artificial Intelligence (AAAI)**, 2023
- Daeha Kim and **Byung Cheol Song**, "Optimal transport-based identity matching for identity-invariant facial expression recognition," **Neural Information Processing Systems (NeurIPS)**, 2022
- Seunghyun Lee and **Byung Cheol Song**, "Ensemble knowledge guided sub-network search and fine-tuning for filter pruning," **European Conference on Computer Vision (ECCV)**, 2022
- Daeha Kim and **Byung Cheol Song**, "Emotion-aware multi-view contrastive learning for facial emotion recognition," **European Conference on Computer Vision (ECCV)**, 2022
- Jonathan Samuel and **In Kyu Park**, "3D Body reconstruction revisited: Exploring the test-time 3D body mesh refinement strategy via surrogate adaptation," **ACM International Conference on Multimedia (ACM MM)**, 2022
- **Seung-Hwan Bae**, "Deformable part region learning for object detection," **AAAI Conference on Artificial Intelligence (AAAI)**, 2022
- Jaewoong Choi, Daeha Kim and **Byung Cheol Song**, "Style-guided and disentangled representation for robust image-to-image translation," **AAAI Conference on Artificial Intelligence (AAAI)**, 2022
- Farkhod Makhmudkhujaev, Sungeun Hong and **In Kyu Park**, "Re-Aging GAN: Toward personalized face age transformation," **IEEE/CVF International Conference on Computer Vision (ICCV)**, 2021
- Hakbin Kim and **Dong-Wan Choi**, "Pool of experts: Realtime querying specialized knowledge in massive neural networks," **ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD)**, 2021
- Dae Ha Kim and **Byung Cheol Song**, "Hidden emotion detection using multi-modal signals," **ACM Conference on Human Factors in Computing Systems (CHI)**, 2021

Research Highlights and Awards

• A student under Prof. Song presented a paper at ECCV 2024



▲ Seongho Kim (Master's student) and Prof. Byung Cheol Song, Dept. of Electrical and Computer Engineering

- Kim (Master's student), presented the paper 'All You Need is Your Voice: Emotional Face Representation with Audio Perspective for Emotional Talking Face Generation' at ECCV(European Conference on Computer Vision) 2024.

• Prof. Lee's group presented a paper at MICCAI 2024



▲ Jong Bub Lee (Master's student), Prof. Jung Soo Kim, Dept. of Internal Medicine, Inha University Hospital, and Prof. Hyun Gyu Lee, Dept. of Electrical and Computer Engineering

- Lee (Master's student), presented the paper COVID19 to Pneumonia:Multi Region Lung Severity Classification using CNN Transformer Position-Aware Feature Encoding Network) at MICCAI(Medical Image Computing and Computer Assisted Intervention) 2024.

• Students under Prof. Lee published a paper at CVPR 2024



▲ Ju-Hyeon Nam (Ph.D. student), Nur Suriza Syazwany (Ph.D. student), Su Jung Kim (Ph.D. student), and Prof. Sang-Chul Lee, Dept. of Electrical and Computer Engineering

- Nam, Suriza, and Kim (Ph.D. students) developed an AI model called "MADGNet" for precise pixel-level prediction of cancer cells and other medical entities. Their paper, titled "Modality-Agnostic Domain Generalizable Medical Image Segmentation by Multi-Frequency in Multi-Scale Attention" was published at CVPR (Computer Vision and Pattern Recognition) 2024.

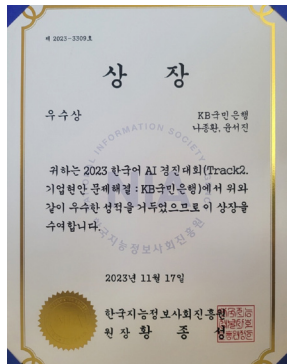
• Master’s students under Prof. Choi presented their theses at AAAI 2024



▲ Haneol Kang (Master's student), Hyunjune Shin (Master's Student), and Prof. Dong-Wan Choi, Dept. of Electrical and Computer

- Kang (Master’s student) presented at AAAI 2024 (Association for the Advancement of Artificial Intelligence) on a novel method called “Recall-Oriented Continual Learning with Generative Adversarial Meta-Model,” which proposes a unique approach to recall the parameters learned by neural networks, inspired by the way the human brain retrieves memories.
- Shin (Master’s student) presented at AAAI 2024 (Association for the Advancement of Artificial Intelligence) on a new knowledge distillation method. He was the first to discover that existing methods could lead to unstable learning performance depending on the teacher model, and developed an effective solution to address this issue.

• Prof. Lee’s group won second place and received an excellence award at the ‘2023 Korean AI Competition’



▲ Jonghwan Na (Master’s student) and Seojin Yoon (Master’s student)

- Students Na and Yoon under Prof. Lee’s group proposed a technique to improve speech recognition rates for a counseling voice dataset. They analyzed data and preprocessed it, and compared the performance of the state-of-the-art AI models to find the optimal model. They won second place in the category focused on “Counseling Speech Recognition”.

• Students under Prof. Bae published a paper in IEEE TIP 2023



▲ Prof. Seung-Hwan Bae, Dept. of Electrical and Computer Engineering, and Seong-Ho Lee (Master's student) and Dae-Hyeon Park (Ph.D. student)

- Prof. Bae’s research group published a paper titled ‘Decode-MOT: How Can We Hurdle Frames to Go Beyond Tracking-by-Detection’ in IEEE Transactions on Image Processing (TIP), the top-tier journal in the field of image processing. The paper proposes a novel tracking mechanism that enables real-time online operation for existing multi-object tracking technologies.

Research Highlights and Awards

• Prof. Bae published in a top-tier journal in the field of computer and electrical engineering



▲ Prof. Seung-Hwan Bae,
Dept. of Electrical and Computer Engineering

- Prof. Bae published a paper titled 'Deformable Part Region Learning and Feature Aggregation Tree Representation for Object Detection' in IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), a journal ranked in the top 0.5% in the fields of computer and electrical engineering.

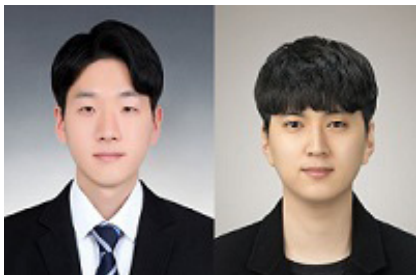
• A student under Prof. Kim won the Bronze Prize at the Samsung HumanTech Paper Award



▲ Prof. Young-Jin Kim, Dept. of Electrical and Computer Engineering, and Kyungtae Lee (Master's student)

- Lee (Master's student) received the Bronze Prize at the 29th Samsung HumanTech Paper Award for proposing a technology to enhance next-generation AI applications like autonomous driving, AR, and VR on mobile devices, in the paper titled 'Adaptive DNN Model Partitioning Method for Mobile Vision Applications Using Edge'.

• Students under Prof. Park received the Participation Prize at the Samsung HumanTech Paper Award and the Excellence Award at the Haedong Outstanding Paper Award



▲ Minsik Kim (Ph.D. student)
and Minwoo Kim (Master's student)

- Kim (Ph.D. student) received the Encouragement Prize at the 29th Samsung HumanTech Paper Award for proposing an optimized method for wireless federated learning in the paper titled 'Beamforming Vector Design and User Selection for Wireless Federated Learning'
- Kim (Master's student) received the Excellence Award at the 2023 Winter Conference of the Korean Institute of Communications and Information Sciences (KICS) Haedong Outstanding Paper Award for proposing an efficient signal detection method for MIMO systems using single-bit ADCs in the paper titled 'ADMM-Based Signal Detection Network for Binary MIMO Systems'.

• Prof. Kim's research team published a paper in IEEE Trans. on Cybernetics



▲ Prof. Byung Hyung Kim,
Dept. of Electrical and Computer Engineering

- Prof. Kim's research team published a paper in IEEE Trans. on Cybernetics, an international top-tier journal in the field of AI, ranked in the top 1%. The team developed a human brain asymmetry activation model and a time-series causal graph model to understand the causal relationship between human behavior and emotions.

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Gwangmyeong Station, Seoksu Station ▶ Bus 3001
Sinchon Station, Seoul Station ▶ Bus 1601



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