www.aigrand.kr

AI Grand ICT
Research Center

www.aigrand.kr

Artificial Intelligence
Grand ICT Research Center

aigrand_ict

Contact

A. [47340]176, Eomgwang-ro, Busanjin-gu, Busan, Korea
AI Grand ICT Research Center (Bldg. 20),
Dong-Eui University Industry-Academic Cooperation Center 2F
T. 051-890-2772 **E.** aigrand@deu.ac.kr
Graduate School of Artificial Intelligence **T.** 051-890-4357



AI Grand ICT
Research Center

Download
Center
Introduction
Brochure

Ministry of Science and ICT
IITP Institute of Information & Communications Technology Planning & Evaluation
BUSAN METROPOLITAN CITY
DONG-EUI UNIVERSITY
BIPA Busan IT Industry Promotion Agency

AI Grand ICT Research Center

Project Objectives

- Develop AI convergence technologies based on industrial demands and foster AI specialists.
- Cultivate strategic industries and secure new growth engines to build an AI ecosystem and revitalize the economy.

Conduct AI innovation research and foster specialized talent

Support local companies in acquiring global AI technologies

Establish a collaborative platform among industry, academia, and research institutes

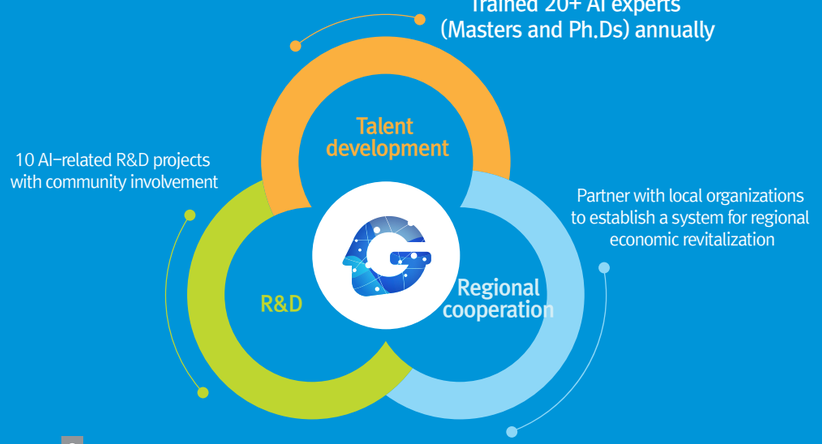
Grand ICT Support Project

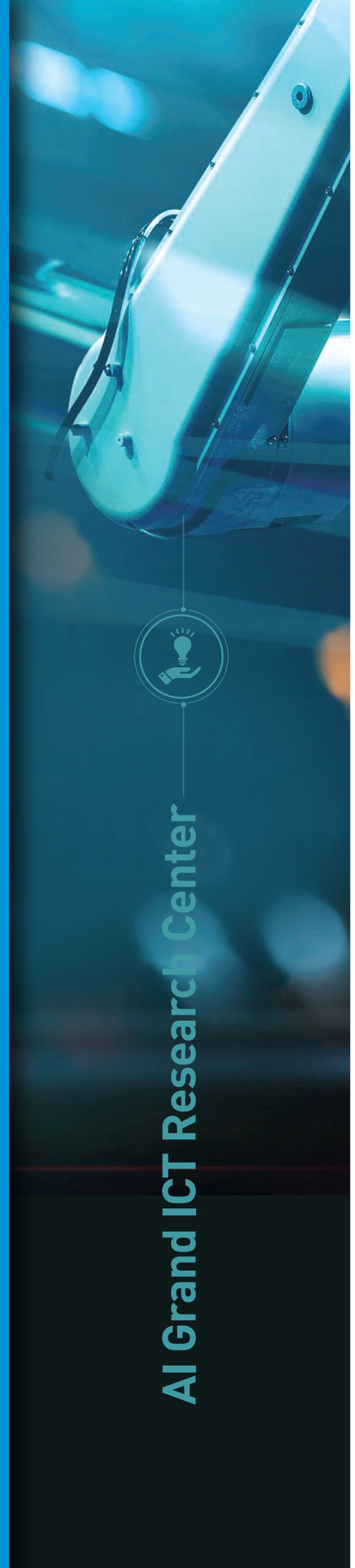
Quantitative Goals Train 160 working professionals at the master's level; Achieve over 320 scientific and technological outcomes; Generate at least $0.75 million in economic benefits (including technology transfer, commercialization, etc.)

Project Duration	Total Project Budget
2020.07.01 ~ 2027. 12 .31 7.6 Years	$1.63 million per year $12.86 million

Project Lead Organization	Joint Research Organization	Participating Organization
Dong-Eui University	Busan IT Industry Promotion Agency	Busan Metropolitan City

Key areas





GREETING_

Our Center is actively advancing AI technology capabilities through joint research between participating professors and industry partners. By facilitating technology transfer and enhancement, we are achieving meaningful progress.
We also operate a range of programs to nurture AI specialists, offering training tailored to the needs of industry. In particular, we have established a new Department of Artificial Intelligence at Dong-Eui University Graduate School, providing specialized education for employees of small and medium-sized enterprises.
Through continued industry-academia collaboration, we aim to foster customized AI talent and enhance the competitiveness of the ICT sector.

Director **Seok Chan Jeong, Ph.D**



Areas of Expertise

Artificial Intelligence, Big Data, IoT, Edge Computing

Major Awards and Achievements

- IT Innovation Grand Prize, Commendation from the Minister of Knowledge Economy (Dec 5, 2008)
- Commendation of Mayor of Busan Metropolitan City for Informationand Communication Merit (Dec 26, 2018)
- Order of Service Merit, Red Stripes, for Contributions to the Development of the Software Industry (Dec 2, 2019)
- Commendation for Outstanding Cooperation in Busan's Industry-Academia Collaboration, Busan Metropolitan City (Dec 19, 2022)
- Commendation for Outstanding Social Achievements, Busan Metropolitan City (Sep 26, 2024)
- Commendation for Outstanding Contributions to Digital Talent Debelopment, Busan Metropolitan City(Dec 8,2022/Dec 12, 2025)
- Awarded from the Minister of the Ministry of Science and ICT in Digital Convergence Innovation Talent Training(Dec 31,2025)



Career highlights

- B.S. in Mechanical Design Engineering, Pusan National University, Korea
- M.S. and Ph.D. in Industrial Engineering, Osaka Prefecture University, Japan
- Senior Researcher, Electronic Commerce Research Division, Electronics and Telecommunications Research Institute (ETRI), Korea.
- Visiting Professor, California State University and Missouri State University, USA
- Professor, Department of e-Business (since 1999 - present), and Graduate School of Artificial Intelligence, Dong-Eui University, Korea
- Director, Artificial Intelligence Grand ICT Research Center, Dong-Eui University (2020 - present)
- Dean, College of Business and Economics, and Dean, Graduate School of Business Administration, Dong-Eui University (2025 - present)
- Director, Busan AI Innovation Center (2025 - present)
- Chief Planning Committee Chair, Ministry of Science and ICT, "Data-Sharing-Based Cloud Service Innovation Platform Establishment" Preliminary Feasibility Project (2017 - 2018)
- Member, Information and Communications Strategy Committee, Ministry of Science and ICT (2017 - 2020)
- Expert Member, Regional Science and Technology Promotion Council, National Science and Technology Council, Ministry of Science and ICT (2017 - 2020)
- Member, Regional Innovation Committee, Busan Metropolitan City (2018 - 2022)
- Advisory Member, Legislative Advisory Committee, Busan Metropolitan City (2024 - present)
- Board Member, University ICT Research Center Council (2022 - present)
- President, Korea Internet & e-Commerce Association (2025)
- President, Korea Big Data Society (2026 - 2027)
- Member, National Artificial Intelligence Strategy Committee (Chair: President Lee Jae-myung) (2024 - present)

History

2020
- Launch of the Center and establishment of the Graduate School Department of Artificial Intelligence
- Formed the Regional AI Talent Development Council
- Hosted Industry-Academia-Research-Government Network Performance Report

2021
- Operated regional corporate networking programs
- Participated in the AI KOREA Exhibition
- Signed MOU with the Creative AR and VR Hub at the Manchester Metropolitan University, UK
- Signed MOU with MUAAC at the University of Missouri, USA
- Hosted the Dong-Eui University Open Campus event organized by Busan Metropolitan City

2022
- Selected as Branch No. 16 for Busan's Industry-Academia Cooperation Program
- Participated in the ITRC Talent Development Expo 2022
- Signed MOU with the Hospitality and Tourism School at the Duy Tan University, Vietnam
- Hosted the Digital Transformation Conference 2022 Busan
- Signed business agreement with Binance Academy (selected as Busan Blockchain Education Center)
- Signed MOU with Busan Transportation Corporation
- Hosted the StepUp Artificial Intelligence Grand ICT Job Festival
- Received Mayor's Commendation from Busan Metropolitan City for Excellence in Industry-Academia Cooperation

2023
- Signed MOU with FPT University, Vietnam
- Operated Busan Industry-Academia Exchange Association
- Participated in the 2nd User-Centered Artificial Intelligence Forum (UCAI)
- Participated in the 2023 ITRC Talent Development Expo and selected as an Outstanding Exhibition Center
- Signed MOU with Vinako Trading & Service Co., Ltd., Vietnam
- Hosted the 2023 Job Fair
- Signed MOU with Innogrid Co., Ltd.
- Hosted a cloud-based AI Idea Contest

2024
- Participated in the 2024 ITRC Talent Development Expo and selected as a Popular Exhibition Center
- Hosted the 9th International XR-Metaverse Academic Conference in Busan (BEXCO)
- Signed MOU with Busan Technopark and Manchester Metropolitan University, UK
- Signed MOU with Busan IT Industry Promotion Agency and the International Immersive Technology Innovation Association
- Signed MOU with the University of Calgary, Canada
- Signed MOU with the University of Georgia, USA
- Signed four-party MOU with Korea Railroad Corporation Busan-Gyeongnam Headquarters and others
- Signed MOU with KAIST Auto-ID Lab

2025
- Signed MOU with National University of Laos
- Hosted ICT Solution Idea Contest to Strengthen Corporate Competitiveness (National University of Laos)
- Signed MOU with University of Naples Federico II, Italy
- Participated in MWC 2025 Barcelona Exhibition
- Signed MOU with the University of Gdansk, Poland.
- Signed MOU with IVADO, Canada and Busan Metropolitan City
- Signed MOU with Jiangxi University of Finance and Economics Hong Kong Alumni Association

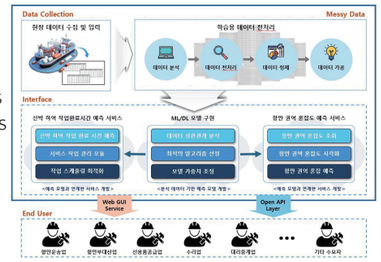
Marine AX

Project 1 Professor **Seok Chan Jeong**, Dong-Eui University

Development of an AI-based Solution for Predicting Cargo Handling and Visualizing Port Congestion

Research Description

- Data Analysis and Preprocessing for Predicting Vessel Unloading Completion Times
- Data Analysis and Correlation Identification for AI Service Development in Port Areas
- Design and Development of an AI Model for Predicting Vessel Cargo Handling Timelines
- Design and Development of an AI Model for Predicting Port Area Congestion Levels
- User Interface Design Utilizing Web-based GUI Services and Data Visualization Technologies

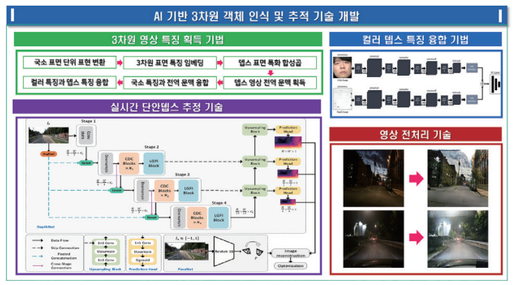


Project 2 Professor **Soon-kak Kwon**, Dong-Eui University

Development of AI-based 3D Object Recognition and Tracking Technology

Research Description

- Development of Feature Extraction Techniques for 3D Visual Recognition in Port
- Development of Real-time Monocular Depth Estimation Technology for 3D Object Information Acquisition
- Development of Efficient Feature Fusion Techniques for Multimodal Data Utilization
- Development of Image Pre-processing Techniques for Low-quality Images to Improve 3D Visual Recognition Performance

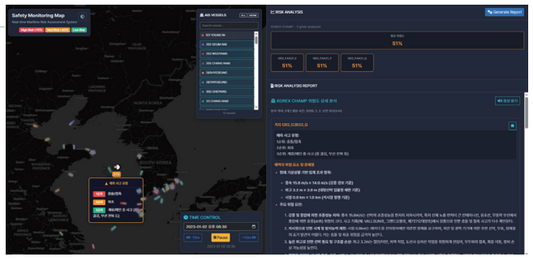


Project 3 Professor **Hyerim Bae**, Pusan National University

Development of a Knowledge System Methodology for Dynamic Maritime Accident Prediction

Research Description

- Automatic structuring of semi-structured maritime accident documents using OCR and Vision-Language Models
- HyperGraph-based maritime accident knowledge modeling to represent many-to-many relationships
- Construction of a Temporal Knowledge Graph reflecting the progression of accident events
- LLM-RAG integration for maritime accident analysis, prediction, and decision support



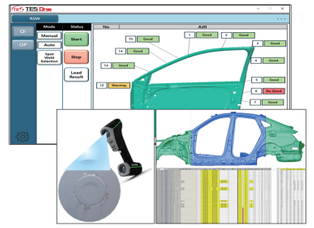
AI Manufacturing / Robotics

Project 4 Professor **Yeong-Do Park**, Dong-Eui University

Development of Autonomous Process Parameter Correction System for Resistance Spot Welding (RSW)

Research Description

- Real-time collection of key process signals such as dynamic resistance, current, and electrode force during the welding process, and construction of a systematic database
- Identification of key process variables that determine quality through correlation analysis between real-time monitoring data and welding quality
- Quantification of quality grades based on surface and internal defect data detected through non-destructive testing (ultrasonic, etc.) and performing labeling for AI training
- Advancement of predictive technology to prevent welding defects in advance by detecting microscopic variations or quality deviations occurring during the process in real-time
- Implementation of an automatic correction logic that optimizes current, welding time, and electrode force in real-time by analyzing the deviation between AI prediction results and actual process signals

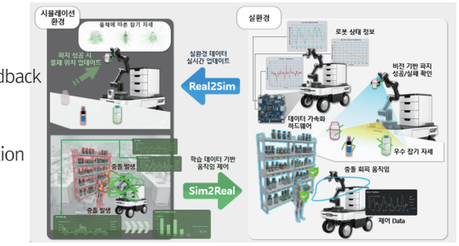


Project 5 Professor **Seung-Ho Ok**, Dong-Eui University

Development of a Physical AI-based Sim-to-Real Robot Control and Anomaly Detection System

Research Description

- Development of an AMMR(Autonomous Mobile Manipulation Robot) Platform with Enhanced Sim-to-Real Consistency based on Real-world Feedback
- Securing Precision Grasping and Control Technology by Minimizing the Gap through Iterative Real↔Sim Calibration
- Development of VLA (Vision-Language-Action)-based Action Policy Generation and Autonomous Driving Control Technology
- Multimodal Sensor Data-based Anomaly Detection and Predictive Maintenance Technology

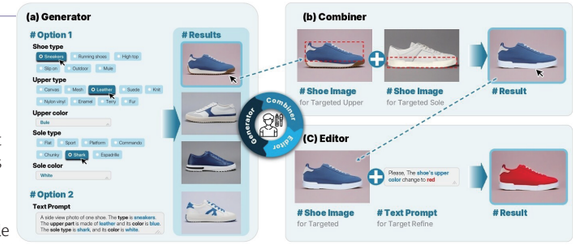


Project 6 Professor **Sung-Hee Kim**, Dong-Eui University

Development of AI-Based Shoe Design and Manufacturing Matching Technologies

Research Description

- Enhancement of generative AI based shoe design quality and manufacturability
- Development of a prompt-based, shoe-specialized image generative AI model and implementation of an interactive input system
- Construction of a shoe-specific segmentation dataset and development of high-precision labeling techniques based on high-resolution images
- Advancement of transfer learning models incorporating diverse fashion styles and research on the utilization of multimodal data
- Development of an automated shoe design history management module and implementation of user-centered search and exploration functionalities



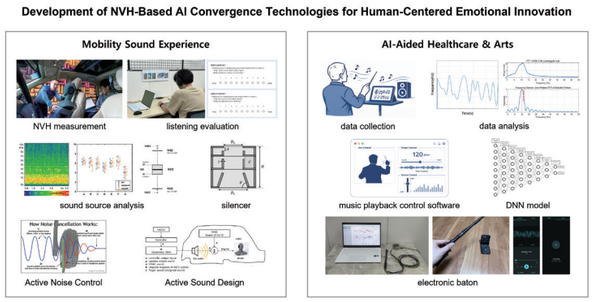
AI Manufacturing / Robotics

Project 7 Professor **Hyun-Su Kim**, Dong-Eui University

Development of NVH-Based AI-Converged Products

Research Description

- NVH Engineering and AI Convergence: Development of human-centered innovative solutions through the integration of noise and vibration control technologies with artificial intelligence
- Personalized Sound Design: Design of acoustics optimized for driver emotions through deep learning - based analysis of subjective listening evaluation data
- Next-Generation ASD System: Establishment of variable emotional sound output technologies linked to real-time driving data using Active Sound Design (ASD)
- Smart Electronic Conducting Baton: Development of a personalized mobility device and interactive rehabilitation tool for cognitive enhancement in older adults
- Music Interaction Software: Implementation of real-time music tempo and volume control algorithms based on AI-driven gesture analysis



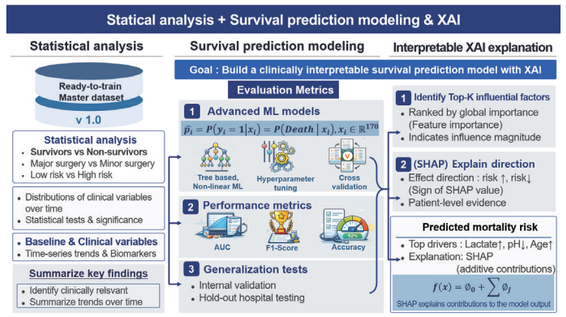
Age-Tech

Project 8 Professor **Sung-Hyun Sim**, Changwon National University

Development of an XAI-based Survival Prediction and Clinical Decision-Support Tool for Thoracic Surgery Patients

Research Description

- Establishment of multi-center data harmonization and analytical datasets for high-risk thoracic surgery patients.
- Development and optimization of survival prediction models that ensure statistical clinical significance and reflect non-linear interactions.
- Development of XAI-based explanation modules (visualization of global risk factors, individual patient contributions, directionality, and supporting evidence).
- Implementation and utility validation of an XAI-based clinical decision support demonstration module (report and visualization system) for clinical review.



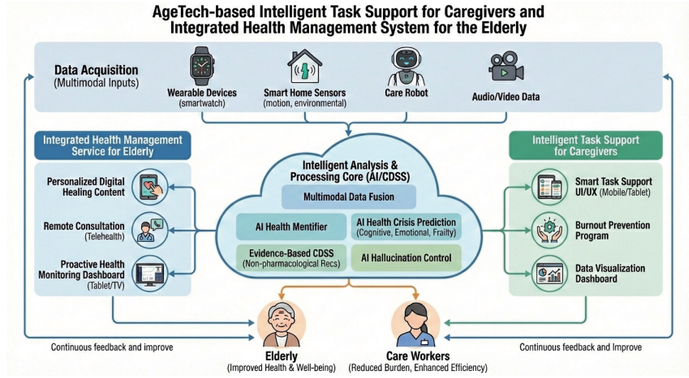
Age-Tech

Project 9 Professor **Chan-Young Kwon**, Dong-Eui University

Development of AgeTech-based Intelligent Task Support for Caregivers and Integrated Health Management System for the Elderly

Research Description

- Multimodal data-based AI models for predicting cognitive, emotional, and frailty crises in the elderly
- Intelligent CDSS featuring evidence-based non-pharmacological intervention recommendations
- Field-optimized smart interfaces and data visualization dashboards for home-care settings
- Personalized digital healing content and burnout prevention programs for caregivers
- AI hallucination control and security guidelines to ensure system reliability and data safety

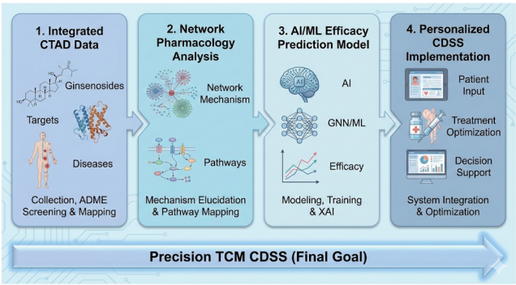


Project 10 Professor **Su-Ji Choi**, Dong-Eui University

Development of AI-Based Precision and Clinical Optimization Technologies for Pharmacopuncture Therapy

Research Description

- Data refinement and network construction for wild ginseng pharmacopuncture, including compounds, targets, and diseases
- Network centrality and pathway analysis or multi-diffusion analysis
- Integration with AI/machine learning predictive models
- Development of result interpretation and clinical validation models



AI Industry-Academia Joint Research

Major Objectives by Project Phase

Phase 1 ('20~'21)
- Conduct technology demand surveys and develop core technologies in four AI + X industrial sectors

Phase 2 ('22~'25)
- Implement, commercialize, and advance technologies in three AI + X industrial sectors

Phase 3 ('26~'27)
- Revitalize the local economy and establish research center self-sufficiency by commercializing technologies in three AI + X industrial sectors

Major Achievements ('20.7 ~ '25.12)

Patent Applications and Registrations 115 applications 39 registrations (including three tri-polar patent applications)	**SCI Papers** 96 papers	**Domestic and International Journals** 133 papers
Software Registrations 120	**Technology Transfers** $623,000	**Industry Research Funding Secured** $2,260,000 (Including Public Institutions)

Best Practices

Awarded from the Minister of the Ministry of Science and ICT in Digital Convergence Innovation Talent Training





- Sub-project1 Professor Seok-Chan Jeong, Dong-eui University

Participating Company (Kristin Company Co., Ltd.) Received the Minister of the Interior and Safety Commendation for UI/UX Innovation in Digital Government Services



- Received the Minister of SMEs and Startups Commendation in the Venture Startup Promotion Youth Enterprise category
- Received the Minister of Trade, Industry and Energy Commendation for "2023 Industrial Digital Transformation Excellence"
- Attracted $5.070 thousand in Series A investment in 2023, with a cumulative investment of $10.140 thousand
- Achieved $360 thousand in sales in 2024, demonstrating the efficiency of AI-based manufacturing processes

RoBOne (Joint Research Company), AIoT-Based Intelligent Recycling Sorting Robot Wins CES Innovation Award

- The AI-powered recycling sorting robot ROBin received the CES Innovation Award in the Smart Cities and Sustainability & Energy/Power categories at CES 2025, the world's largest technology exhibition.
- Students from Sub-project 1 (Professor Seck Chan Jeong) at the AI Grand ICT Research Center (1 PhD student, 3 Master's students) participated in the development of this project, subsequently publishing related papers and filing patent applications.





2025 ICT Challenge Communication Planning Evaluation Director Award Awarded the Grand Prize for the 2025 Bu-Ul-Gyeong ICT Competition

- Using psychological personality model TCI technology, the BatchVis team of DongEui University's artificial intelligence department won the Information and Communication Planning Evaluation Director Award at the 2025 ICT Challenge and the Grand Prize at the 2025 Boolean ICT Competition (Adviser: Professor Kim Sung-hee)

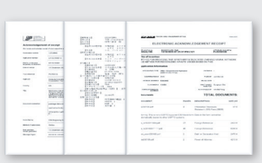




Publication in IEEE TPAMI, the World's Leading Journal in Artificial Intelligence, and Tri-Polar Patent Application

- The Center's joint research team (Professor SungHyun Sim, Professor Hyerim Bae) published a paper in IEEE TPAMI.
- Proposed Correlation Recurrent Units (CRU), an optimized neural network structure for time series data prediction.
- Based on the paper published in IEEE TPAMI, a tri-polar patent application was filed (Professor SungHyun Sim).



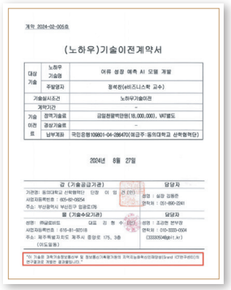


Best Practices in Technology Transfer

1 RoyLabs Co.,Ltd.

Sub-project 1, Company supervised by Professor Seok Chan Jeong

- Developed a lightweight AI inference algorithm for real-time time-series analysis of equipment and production data in manufacturing environments
- Enabled on-device AI deployment for process, production, and quality management
- Technology transfer: Lightweight AI inference algorithm ($8.7 thousand)



2 Signlab Co.,Ltd.

Sub-project2, company supervised by Professor Soon-Kak Kwon

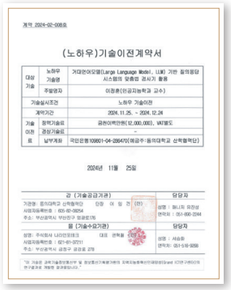
- Pixel-level object detection using RGB-D data from a depth camera
- 3D information acquisition and precise volumetric measurement of detected objects
- Technology transfer: Deep learning-based 3D object measurement tool ($7.7 thousand)



3 TES One Co.,Ltd.

Sub-project4, company supervised by Professor Yeong-Do Park

- Surface feature extraction from laser scanning data after Resistance Element Welding (REW) fastening
- Ensured reliability and automation in defect detection for dissimilar-material joints using Resistance Element Welding (REW)
- Technology transfer: Deep learning-based defect classification for REW fastening using surface profiling scanning ($8.7 thousand)



4 Kristin Company Co., Ltd.

Sub-project 6, Company supervised by Professor Sung-Hee Kim

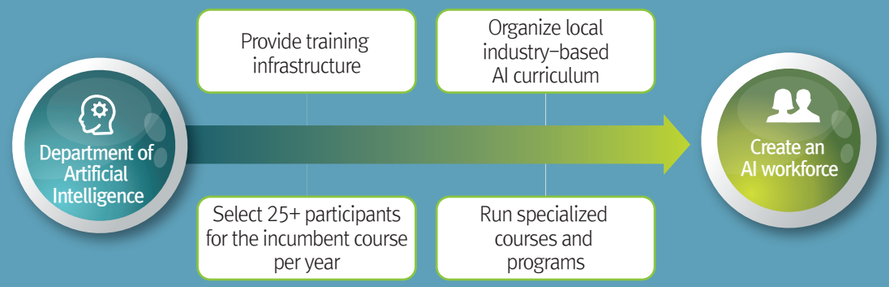
- Built a comprehensive big data set and developed technology to provide consumer trends by crawling data on emerging brands and platforms in the footwear market through industry-academia joint research
- Digitalized the footwear manufacturing industry by using AI to automatically analyze overseas footwear trends and propose seasonal designs
- Technology transfer: AI-based method and device for automatically generating footwear manufacturing estimates ($12 thousand)
- Sales revenue upon commercialization: $10 thousand



Production range: 300 to 300,000 pairs per month	Delivery lead time: within 2 months	Streamlined process & lower agency cost

Operate Graduate School of Artificial Intelligence

Running a master's program for tenured faculty in the Department of Artificial Intelligence



List of subjects

Basic subjects

- Introduction to Artificial Intelligence
- Introduction to Big Data
- Introduction to Machine Learning
- Introduction to Data Mining
- Introduction to Intelligent Robot
- Introduction to Internet of Things
- Programming for Artificial Intelligence
- Mathematics for Artificial Intelligence

Majors

- Advanced Data Mining
- Advanced Deep Learning
- Reinforcement Learning
- Recommendation System
- Computer Vision System
- Natural Language Processing
- Digital Image Processing
- Data Visualization
- AI Business Platform
- Chatbot System
- AI Service Design
- Intelligent System Project Ⅰ, Ⅱ
- Innovation and Entrepreneurship
- Deep Learning System
- Advanced Machine Learning
- Advanced Big Data Analysis
- AI Time Series Data Analysis
- Advanced Smart Port
- Mobile Robotics
- Smart City and Big Data Analysis
- Advanced Smart Healthcare
- Advanced Industrial Artificial Intelligence
- Explainable Artificial Intelligence
- AI Interpretation and Interaction
- AI Optimization
- Big Data Processing Platform
- AI Security
- Intelligent Robot Design and Applications
- AI System Analysis and Architecture
- Cloud Computing
- Advanced Blockchain
- Innovative R&D Project Ⅰ, Ⅱ
- Advanced Topics in Manufacturing Artificial Intelligence

* Establishment of additional subjects/courses tailored to local industries

Graduate Department of Artificial Intelligence

Student status

Entrance year	Employment course		General course	
	Master	PhD	Master	PhD
(1st term) 2020	18	-	-	-
(2nd term) 2021	22	5	6	1
(3rd term) 2022	19	4	5	1
(4th term) 2023	22	-	4	6
(5th term) 2024	25	-	6	2
(6th term) 2025	25	-	8	5
(7th term) 2026	30	-	11	4
Subtotal	161	9	40	19
Sum	229			

Graduate Department of Artificial Intelligence

Graduation status

Entrance Semester	Employment course		General course		Sum
	Master	PhD	Master	PhD	
(1st term) 2020-2	15	-	-	-	15
(2nd term) 2021-1	18	3	4	-	25
(2nd term) 2021-2	1	-	2	-	3
(3rd term) 2022-1	18	-	5	-	23
(3rd term) 2022-2	-	-	-	-	
(4th term) 2023-1	22	-	4	1	27
(5th term) 2024-1	21	-	6	-	27
Total	95	3	21	1	120

Talent development programs

Creative Self-Directed Projects

Graduate students apply their specialized knowledge of artificial intelligence to design and implement creative projects. These projects address real-world problems identified by local industries and the community.

Operation Period April - October

Participants Graduate students involved in research projects and Dong-Eui University students

Details
- Provides opportunities for graduate students to develop and realize a variety of ideas
- Up to $1.33 thousand in support per team
- Prize money awarded through a final presentation competition
- Opportunities to participate in higher-level competitions





Creative Self-Directed Project Presentation and Awards

	Project Title	Team	Team Leader	Advisory professor
Grand Prize	On-device AI-based Educational Robot Platform for Artificial Intelligence Education	RECS	Juhwan Park	Seung-Ho Ok
Excellence Award	AI-based Voice Phishing Detection and Alert System for Senior Citizens	Haedam	Byungjun Gong	Seok Chan Jeong
Encouragement Award	Development of a Dashboard to Visually Present Changes in the Prompt Engineering Process	BatchVis	Youngmi Choi	Sung-Hee Kim

AI Software Education

Operation of Basic and Advanced Software Education Programs for Artificial Intelligence Utilization
Linked with the Busan IT Industry Promotion Agency Innovation Square Education Project

Basic AI Software Education

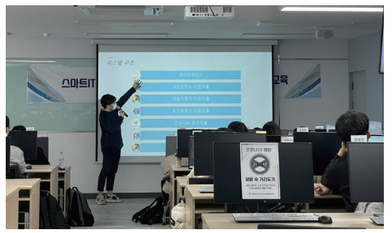
- Conduct basic Python programming education
- Provide training on big data processing and preprocessing
- Operate team project-based training

Advanced AI Software Education

- Conduct advanced AI training using TensorFlow
- Foster industry-ready talent through practical application training
- Strengthen local practical capabilities through project-based learning

[To date: 14 training sessions, 257gradutes]





Talent development programs

Company-Invited Career Special Lectures

Enhance employment competencies and job skills for graduate students and Dong-Eui University students

Participants Dong-Eui University students and graduate students participating in research projects

Details
- Identify the qualities companies seek in talent and the latest employment trends to establish concrete job preparation strategies
- Strengthen participating students' employment capabilities by exploring job opportunities through communication with industry professionals
- Provide tailored strategies suited to the applicant's field and company through advice from practitioners during Q&A sessions

Number of Graduates

No.	By Year (Sessions)	Number of Attendees (persons)
1	2020 (1 session)	15
2	2021 (8 session)	199
3	2022 (3 session)	202
4	2023 (4 session)	152
5	2024 (8 session)	307
6	2025 (5 session)	151





Entrepreneurship Forum

Promote graduate-level learning through real-world entrepreneurship case studies and know-how

Operation Period March - December

Participants Working professionals and students, employees of AI-related companies and industries in the Southeast region

Details
- Provide practical training on essential qualities and foundational knowledge for entrepreneurship
- Enhance insight into the industry as a whole by offering information on trends and the current state of related industries

Number of Graduates

Sort	Period	Participant
1st	'20. 09 ~ '20.12	245
2nd	'21. 03 ~ 21.06	288
3rd	'21. 09 ~ '21.12	223
4th	'22. 03 ~ '22.06	205
5th	'22. 09 ~ 22.12	202
6th	'23. 03 ~ '23.06	311
7th	'23. 09 ~ '23.12	246
8th	'24. 03 ~ '24.06	308
9th	'24. 09 ~ '24.12	328
10th	'25. 03 ~ '25.06	418
11th	'25. 09 ~ '25.12	428
Total		3,202

* Held more than 10 times each semester





Collaboration and Networking

XR-Metaverse International Conference

Delivering hands-on AI education for local children

Period Every year from July to August

Number of Participants Participants from more than 120 universities and companies in about 30 countries (total 256 participants)

Venue(s) Dong-Eui University, Busan Design Promotion Agency, BEXCO

Details
- Establish a hub for metaverse-driven innovation and growth in the Busan region
- Identify global trends in the metaverse field and enable proactive responses
- Build a global metaverse ecosystem and strengthen ongoing cooperation through international networking
- Promote innovation and advancement in applied fields such as the convergence of AI and metaverse technologies





Regional AI Classroom

Providing AI education experiences for local children

Operation Period Every July - August

Participants Elementary school students from underprivileged backgrounds, and graduate students participating in research projects

Venue(s) Children's centers in the Busan area

Details
- Provide coding and basic AI education for elementary school students from underprivileged backgrounds in the region
- Offer opportunities to gain experience with AI and coding, and become familiar with future technologies through hands-on activities using educational kits such as Arduino
- Give participating university students the opportunity to serve as mentors and gain practical teaching experience





ITRC Talent Development Exhibition

Showcase and promote the center's outstanding achievements through the ITRC Talent Development Exhibition

Operation Period Every April

Participants Students participating in research projects

Venue(s) COEX, Seoul

Details
- Graduate and doctoral students participating in research projects are present to exhibit and explain the main research content of each sub-project
- Enhance research capabilities and disseminate research outcomes through feedback from IT industry professionals and students/researchers from other universities
- **Selected as "Outstanding Exhibition Center" at the ITRC Talent Development Exhibition 2023**
- **Selected as "Most Popular Exhibition Center" at the ITRC Talent Development Exhibition 2024**

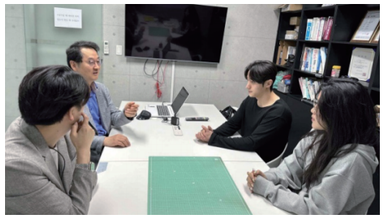
Technical Support for Corporate Challenges

Resolve corporate technical challenges through expert consultation in the Southeast region

- After surveying local company needs, analyze their challenges and match them with experts to resolve issues and enhance technological competitiveness
- Enhance student capabilities through participation as mentees

[To date, a total of 65 cases of technical support have resolved 46 corporate challenges]





Collaboration and Networking

MOUs with Global and Domestic Partners

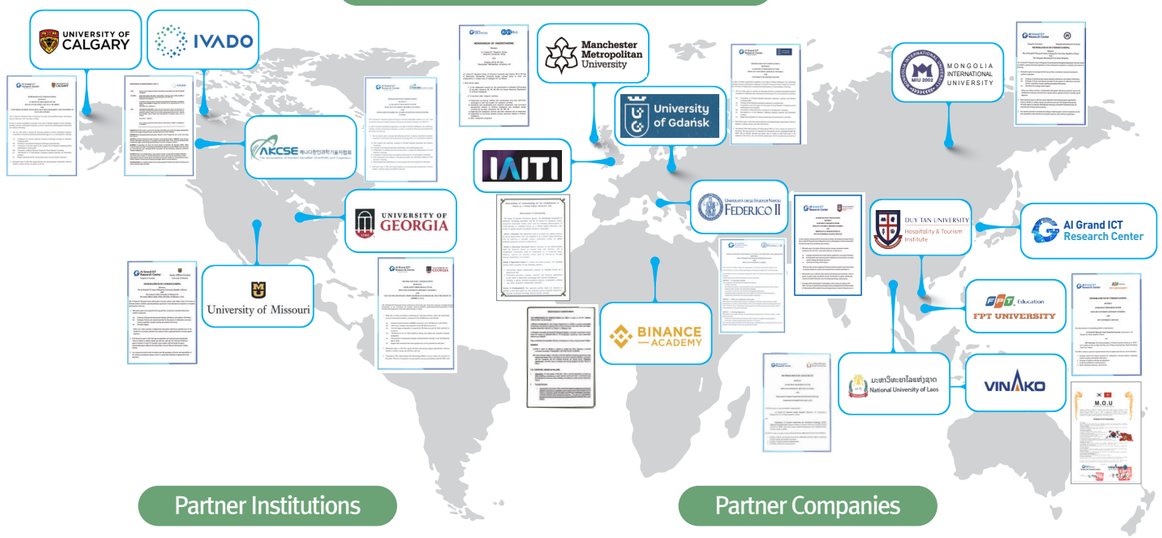
Strengthening global capabilities through partnerships with leading institutions in Korea and abroad

- Collaborating with AI-related companies, associations, etc., in technology and talent development
- Promoting advancement as Asia's leading AI research institute through cooperation with overseas organizations
- Signed agreements with approximately **93 institutions**





Agreements with Overseas Institutions



Partner Institutions

BIPA Busan IT Industry Promotion Agency
Asian Affairs Center, University of Missouri
Manchester Metropolitan University
HUmetro
busan cinema center
FPT Education FPT UNIVERSITY
재단법인 부산테크노파크 BUSAN TECHNO PARK
BISTEP 부산과학기술고등교육진흥원
KICOX Korea Industrial Complex Corporation
BEPA 부산경제진흥원 Busan Economic Promotion Agency
ROAS Robotics on Advanced Solution
samwoo immersion
DUY TAN UNIVERSITY
BDI 부산연구원 BUSAN DEVELOPMENT INSTITUTE
KOMERI Korea Marine Equipment Research Institute
SW중앙교육원
BINANCE ACADEMY

Partner Companies

TOTAL SOFT BANK LTD.
ENCOM
TES TES One
SAMSUNG 삼성중공업
KRISTIN
AJINEXTEK AXT
metavu
NGL Next Generation Logistics
NMC Electric Propulsion Technologies
AMZ Smart Advance Engineering, Rapid Automation
글로비트 Global Information Technology
narainfotech
LIGHTSTAR ㈜광성계측기
wmit
CHRONOGRAPH
RoyLabs 로이랩스 주식회사
부 명 기 획
STORYZINE
LISSE
ROBOne

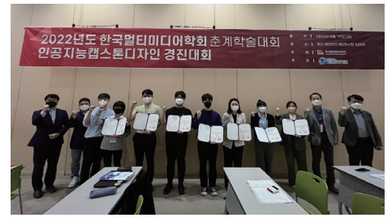
Joint Research Institution (Busan IT Industry Promotion Agency)

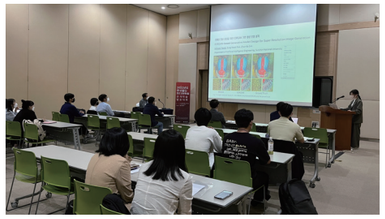
AI Idea Contest

A nationwide AI idea competition held in a capstone design format

Organizer Busan IT Industry Promotion Agency
Participants Anyone aged 19 or older interested in artificial intelligence
Contest Theme
- Propose ideas and solutions for industrial/service sectors using AI technologyhnologies
- Awards : A total of 4 teams (1 Grand Prize, 1 Excellence Award, 2 Participation Awards) Process

Process
- Online application 〉1st eligibility screening 〉2nd document and presentation review 〉 Selection of winners





AI KOREA

Showcased R&D outcomes at a nationwide exhibition with AI-related companies and institutions

Period Sepember 9-11 , 2026
Venue(s) BEXCO, Busan
Organizer Busan Metropolitan City, Busan IT Industry Promotion Agency
Details Exhibition of the center's major R&D prototypes, software deliverables, and talent development achievements





Achievement Presentation

Promote the center's outstanding achievements by sharing annual industry-academia joint research project results

Date September 24, 2025
Organizer Busan IT Industry Promotion Agency
Participants Sub-project participants, representatives from joint research companies, and local industry stakeholders

Details
- Share industry-academia joint research achievements for each project and disseminate results through networking
- Foster high-level talent by encouraging student participation in joint research projects
- Build a collaborative network ecosystem among academia, industry, and related organizations



