

POSTECH Opens the “Wil van der Aalst Data & Process Science Research Center” in Pohang

04/10/2024

Pohang University of Science and Technology (POSTECH) in South Korea has named one of its research centers after the PADS chair, prof. Wil van der Aalst. The “Wil van der Aalst Data & Process Science Research Center” reflects his significant contributions to the fields of process mining, business process management, workflow systems, and data science.



© POSTECH

The center was opened on November 24th, 2024, on the campus of Pohang University of Science and Technology (POSTECH). A two-day symposium with speakers from industry and academia marked the starting point for the center.

POSTECH (Pohang University of Science and Technology) is a leading research university in South Korea, known for its strong focus on science, engineering, and technology. Established in 1986, it consistently ranks among the top universities globally in these fields. POSTECH is renowned for its cutting-edge research in fields like materials science, physics, chemistry, biotechnology, industrial engineering, and computer science. POSTECH has close ties with industrial partners, particularly in technology and engineering, allowing for real-world application of research. It collaborates with companies like POSCO (a major steel company) and many other global enterprises.



© POSTECH

The “Wil van der Aalst Data & Process Science Research Center” aims to become a leading research hub, focusing on both theoretical and applied research in Data Science and Process Science. Professor Minseok Song, who initiated the establishment of the center, states that the three main goals are:

- Conducting high-impact research in Data & Process Science in collaboration with global and local partners.
- Strengthening industry-academic ties, especially in sectors such as manufacturing, service, and finance, where data and process science can drive innovation.
- Building a global research network by collaborating with distinguished international faculty and institutions.

van der Aalst Data & Process Science Research Center 개소식 및 기념 워크숍

행사기간 2024.9.24 (화) ~ 9.25 (수)

장소

포스코 체인지업 그라운드, LG동

참가대상

포항공과대학교 대학원생 및 신진연구인력
(그 외 관심있는 교내 구성원)

주최

van der Aalst Data & Process Science
Research Center

지원

포항공대 IME(산업경영), iDS(산업데이터사이언스),
BK21 iDPS(산업데이터 및 프로세스 사이언스) 연구팀,
포항공대 FOIC(미래도시연구센터)

참가신청

<https://forms.gle/N3Kk5A7Ybzj9HGol9>



09.24 화 (체인지업 그라운드, LG동)

Prof. Wil van der Aalst RWTH Aachen University	체인지업 그라운드 미디어홀 (2F) 13:30 ~ 14:45
Using Object - Centric Process Mining to Unravel Complexity and Enable Enterprise-Level AI/ML	
전현재 이사장, 정인재 상무 Celonis Korea	LG동 101호 15:00 ~ 15:30
From Insights to Action: Driving Business Value with Celonis Process Intelligence	
김민경 상무 삼성화재	15:30 ~ 16:00
AI와 데이터로 만드는 보험의 업무혁신 사례	
이미연 교수 한림대병원	16:00 ~ 16:30
병원에서의 프로세스 마이닝 적용	
송민석 교수 POSTECH	16:45 ~ 17:10
PM / AI 기반 프로세스 개선: 제조 / 금융 사례	
조봉수 상무 LG전자	17:10 ~ 17:40
Extended AI Service Framework	

09.25 수 (LG동)

Prof. Moe Thandar Wynn Queensland University of Technology	LG동 101호 9:00 ~ 9:40
Process Data Quality Management	
Prof. Marco Comuzzi UNIST	9:40 ~ 10:20
Event Log Data Quality in Process Mining: Modeling, Assessing, Improving	
조민수 교수 광운대학교	10:45 ~ 11:15
Representation Learning for Process Models: An LLM-Based Approach and Comparative Evaluation	
최서현, 정재윤 교수 경희대학교	11:15 ~ 11:45
Predictive Analysis for Automated Material Handling Systems Using Graph Neural Networks	
이용재, 배혜림 교수 부산대학교	11:45 ~ 12:15
Encoding Event Logs with Graph Contrastive Learning	

© POSTECH

The center is organized into three core research groups:

1. Data Science Group – focusing on AI fairness, deep learning, and large-scale computational algorithms.
2. Process Science Group – focusing on process mining, digital twins, and process optimization solutions.
3. DPS Application Group – focused on applying research outcomes in industries such as manufacturing, finance, and insurance.

The center will play a key role in intensifying the collaboration between RWTH Aachen University and POSTECH. This will include cooperation in the field of process mining between the Process and Data Science (PADS) group at RWTH and the Department of Industrial & Management Engineering at POSTECH. The center will also facilitate student exchanges in the field of data science.

