

Part I: Lightning Talks by Students

Part II: Lecture by Prof. Bernard De Baets

"Computation and Mathematics in Motion: Tools, Solutions, Frontiers"

The *AI Salon* is part of the Next-Generation AI Doctoral Fellowship Program (FL-BOOST), which aims to foster future society through cutting-edge research. As part of this initiative, leading AI researchers from Japan and abroad are regularly invited to deliver seminars and participate in research exchange sessions. The AI Salon provides participants with opportunities to engage with the forefront of AI, mathematics, and data science across fields such as agriculture and engineering. It serves as a platform to learn advanced theories and methods, and to exchange ideas and knowledge. (Website: <https://www.tuat-flourish.jp/program/fellow/>)

For this 9th AI Salon, Part I will feature lightning talks by 13 students. In Part II, we are honored to welcome Professor Bernard De Baets from the Faculty of Bioscience Engineering at Ghent University, Belgium, who will deliver a lecture entitled "*Computation and Mathematics in Motion: Tools, Solutions, Frontiers*."

Date & Time: Friday, October 24, 2025, 15:00–17:00
Venue: Room 1-16, Lecture Building 1, Fuchu Campus, Tokyo University of Agriculture and Technology

◆ Timetable

- Part 1: 15:00 – 16:00 Lightning talk by FL-BOOST fellows (language: English)
 5 minutes for each students: Presentation 3 minutes, Q&A 2 minutes
- Part 2: 16:00 – 17:00 Lecture (language: English)
 Prof. Bernard De Baets Ph.D. (Ghent University, Belgium)
 "Computation and Mathematics in Motion: Tools, Solutions, Frontiers"

※Participation in Part II only is also welcome.

◆ Biography (Prof. Dr. Bernard De Baets)

Bernard De Baets is a senior full professor in applied mathematics at the Faculty of Bioscience Engineering of Ghent University (Belgium), where he is leading the research unit KERMIT (Knowledge Extraction, Representation and Management using Intelligent Techniques). Bernard has been an affiliated professor at the Anton de Kom Universiteit and a Professor Extraordinarius of the University of South Africa. He is an Honorary Professor of Budapest Tech, a Doctor Honoris Causa of the University of Turku, a Profesor Invitado of the Universidad Central "Marta Abreu" de las Villas, and an Honorary Chair Professor at Bennett University and Sai University. As a trained mathematician, computer scientist and knowledge engineer, Bernard has developed a passion for multi- and interdisciplinary research. Over the past 25 years, more than 100 PhD students have graduated under his supervision. He is also a prolific writer, with a bibliography comprising more than 700 peer-reviewed journal papers, accumulating more than 38000 Google Scholar citations (h-index 96). Several of his works have been bestowed with a best paper award. Moreover, he is a much-invited speaker, having delivered over 300 lectures worldwide. Bernard actively serves the research community, in particular as co-editor-in-chief of *Fuzzy Sets and Systems*. He was nominated for the Ghent University Prometheus Award for Research. He is a Fellow of IFSA, received the EUSFLAT Scientific Excellence Award and was proclaimed Honorary Member of the EUSFLAT Society.



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