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OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY
沖縄科学技術大学院大学

VISITING PROGRAM

TSVP TALK

How Air Moves and Affects Us: Simulations of Urban, Indoor, and Human Air Quality

2025

TUE.

Nov. 18

15:00–16:00

HYBRID

L5D23, ZOOM



For zoom and other details scan QR code or visit oist.jp/visiting-program



Poor air quality has serious impacts on both the environment and public health. Exposure to air pollutants is strongly linked to diseases such as lung cancer, stroke, and chronic obstructive pulmonary disease. While air pollution predominantly affects urban populations, outdoor air quality represents only part of the problem. Indoor air quality is equally important since people spend most of their time indoors, where outdoor pollutants can enter and accumulate. Additionally, indoor sources such as sick individuals releasing pathogens through speech, coughing, and sneezing can further degrade air quality. This talk will present recent advancements in computational modeling techniques designed to understand and address air pollution across multiple scales, ranging from urban environments to indoor spaces and human airways.

Finnish Meteorological Institute

Daulet Izbassarov

Dr Daulet Izbassarov is an Academy Research Fellow and Senior Scientist at the Finnish Meteorological Institute. His research focuses on computational modeling of complex systems, such as indoor airflow, microfluidics, and human airway dynamics. He earned his MSc and PhD from Koç University, and held postdoctoral positions at KTH and Aalto University.

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CONTACT

Office of the Dean of Research



tsvp@oist.jp