

國立台灣大學材料系

演講公告

演講者： Dr. Nobuyuki Tanaka
Senior Scientist,
Laboratory for Biologically Inspired Computing,
RIKEN Center for Biosystems Dynamics Research

題目：**Interface analysis by dewetting and rewetting**

摘要： The interfacial characteristics and functionality, such as adhesiveness and wetting are strongly affected by the status of the interface. The change between wet and dry phases is one of the most influential causes which alter the surface properties. For instance, a wet surface normally behaves as much more hydrophilic than that in case of dehydration. We recently developed an air-injection mediated liquid exclusion (AILE) method for assessing interfaces based on dewetting and rewetting. Here, this seminar will introduce the principle of the method and several applications into biointerfaces.

時間： 112 年 01 月 17 日（星期三）

上午 11 點

地點： 工綜館 228 研討室

*****歡迎參加*****

Curriculum vitae

Nobuyuki Tanaka

Senior Scientist,

Laboratory for Biologically Inspired Computing,

RIKEN Center for Biosystems Dynamics Research

<https://researchmap.jp/nobuyuki.tanaka>



Education

- 2011 Ph.D. (Engineering), Graduate School of Engineering, Osaka University, Osaka, Japan.
- 2008 M.S. (Engineering), Graduate School of Engineering, Hiroshima University, Hiroshima, Japan.
- 2006 Bachelor of Engineering, School of Engineering, Hiroshima University, Hiroshima, Japan.
- 2004 Associate degree, National College of Technology, Suzuka College, Mie, Japan

Employment

- 2020 – now Senior Scientist, RIKEN Center for Biosystems Dynamics Research (BDR), Japan.
- 2019 - 2020 Academic Guest, ETH Zurich, Switzerland.
- 2018 – 2020 Research Scientist, RIKEN Center for Biosystems Dynamics Research (BDR), Japan.
- 2015 – 2018 Research Scientist, Quantitative Biology Center (QBiC), RIKEN, Japan.
- 2013 – 2015 Assistant Professor, Graduate School of Engineering Science, Osaka University, Osaka, Japan.
Research Fellow (PD) of the Japan Society for the Promotion of Science (JSPS Research Fellow), as a Postdoctoral Fellow, Institute of Advanced BioMedical Engineering and Science (ABMES), Tokyo Women's Medical University, Tokyo, Japan.
- 2011 – 2013 JSPS Research Fellow (DC1), as a Ph.D. student, Graduate School of Engineering, Osaka University, Osaka, Japan.
- 2008 – 2011 JSPS Research Fellow (DC1), as a Ph.D. student, Graduate School of Engineering, Osaka University, Osaka, Japan.

Honors

- 2024 Leave a Nest Research Award 2024
- 2021 Best Presentation Award Finalist, IEEE MHS2021.
- 2020 – 2023 Principle Investigator, RIKEN Engineering Network Projects.
- 2019 Certificate of Merit for Best Presentation, Robotics and Mechatronics Division, The Japan Society of Mechanical Engineers.
- 2019 The 4th Industry Partnerships Incentive Award, RIKEN.
- 2019 The 10th Technology Incentive Award, RIKEN.
- 2018 Mitsubishi Electric Idea Plus Award, Hyper Interdisciplinary Conference, as a team leader of “academic smart air coating team.”
- 2015 2nd Prize, QBiC Retreat 2015, RIKEN.
- 2014 – 2015 Principal Investigator, Multidisciplinary Research Laboratory System, Graduate School of Engineering Science, Osaka University.
- 2014 Ikeda Rika Award, LNEst Grant, Leave a Nest Co., Ltd.
- 2013 Certificate of Merit for ROBOMECH Outstanding Research Activity, Robotics and Mechatronics Division, The Japan Society of Mechanical Engineers.
- 2013 ICRA2013 Best Automation Paper Award Finalist, IEEE Robotics and Automation Society.
- 2012 Young Researcher Award, System Integration Division, The Society of Instrument and Control Engineers, Japan.
- 2012 Certificate of Merit for Best Presentation, Robotics and Mechatronics Division, The Japan Society of Mechanical Engineers.
- 2011 Young Researcher Award, IEEE Engineering in Medicine and Biology Society Japan Chapter.
- 2009 Paper Award, The Society of Instrument and Control Engineers, Japan.