



## ICRA 2024 Full Day Workshop on TRANSLATIONAL RESEARCH IN MEDICAL ROBOTICS

From Lab Bench to Clinical Use – How to?

supported by [IEEE RAS TC for Surgical Robotics](#)

### DATE, TIME, AND PLACE

- Friday, May 17th 2024
- 8:45AM - 17:10PM
- Pacific Convention Plaza Yokohama(PACIFICO Yokohama) 1-1-1, Minato Mirai, Nishi-ku, Yokohama 220-0012, JAPAN

### WEBSITE

<https://translational-medical-robotics.github.io/>

### REGISTRATION

All the speakers must be registered to the workshop via the ICRA website: <https://2024.ieee-icra.org/registration/>

Please note that the conference registration fee does not include the workshops. This is a separate registration.

### INVITED SPEAKERS

Please check the programme in the next page, and prepare a presentation to fit the allocated slot – which should also include few minutes for the Q&A.

### YOUNG RESEARCHERS SESSION

Authors of the accepted papers will present their work in person at the workshop. Please prepare a 7 minute presentation.

### ORGANISERS

- **Giulio Dagnino**, Associate Professor, RaM Lab, University of Twente, NL
- **Dennis Kundrat**, Head of Department, Department Therapy, Fraunhofer Research Institution for Individualized and Cell-Based Medical Engineering (IMTE), Lübeck, DE
- **Momen Abayazid**, Associate Professor, RaM Lab, University of Twente, NL
- **Luigi Manfredi**, Senior Lecturer, University of Dundee, UK
- **Helge Wurdemann**, Professor, University College London, UK
- **Pedro Moreira**, Instructor, Brigham and Women's Hospital, Harvard Medical School, USA

## PROGRAMME

Time	Program
08:45 - 09:00	Welcome and introduction to the WS [Giulio Dagnino, Dennis Kundrat]
	Session 1: Translational Stories 1 [Chair: Giulio Dagnino, Dennis Kundrat]
09:00 - 09:30	<b>Prof Pietro Valdastrì</b> - University of Leeds, UK <i>"Intelligent magnetic colonoscopy: from bench to bed trials"</i>
09:30 - 10:00	<b>Prof Kevin Cleary / Prof Reza Monfaredi</b> – Children's National, USA <i>"MR-Compatible Robotics" [in person + virtual contribution]</i>
10:00 - 10:20	Coffee Break
10:20 - 10:50	<b>Prof Sanja Dogramadzi</b> - The University of Sheffield, UK <i>"Robot-Assisted Fracture Surgery"</i>
	Session 2: Commercialization [Chair: Dennis Kundrat; Pedro Moreira]
10:50 - 11:15	<b>Dr Gernot Kronreif</b> – Austrian Center for Medical Innovation and Technology, AT <i>"The path from concept to certified robot – challenges and lessons learned"</i>
11:15 - 11:40	<b>Dr Rainer Konietzschke</b> – Medtronic GmbH, DE <i>"Medtronic presenting on Hugo™ robotic assisted surgery system"</i>
11:40 - 12:05	<b>Prof Dong-Soo Kwon / Dr Dong-Ho Lee</b> - ROEN Surgical Inc., KR <i>"Robotic Ureteroscopy System from Research to Commercialization"</i>
12:05 – 12:30	<b>Prof Thiusius R. Savarimuthu</b> – SDU Robotics, DK <i>"ARTHUR world's first CE-marked ultrasound robot for Arthritis"</i>
12:30 - 13:20	Lunch Break
13:20 – 13:50	Young Researchers Session [Chair: Pedro Moreira] <ul style="list-style-type: none"> <li>• Mr <b>Mostafa Selim</b> – Univerity of Twente, NL</li> <li>• Ms <b>Ana Cordón-Avila</b> – Univerity of Twente, NL</li> <li>• Mr <b>Muhammad Wildan Gifari</b> – University of Tsukuba, JP</li> <li>• Ms <b>Cristina Iacono</b> – Università degli Studi di Napoli Federico II, IT</li> </ul>
	Session 3 – Translational Stories 2 [Chair: Momen Abayazid, Giulio Dagnino]
13:50 - 14:15	<b>Prof Michael Yip</b> - University of California San Diego, USA <i>"Achieving Contextual Understanding and Automation in Surgery with the daVinci Research Kit"</i>
14:15 - 14:40	<b>Dr Claudio Pacchierotti</b> – CNRS, Inria, FR <i>"The potential of haptic feedback for medical robotics: from robot-assisted surgery to microrobotics"</i>
14:40 - 15:05	<b>Prof Alan Kuntz</b> – University of Utah, USA <i>"Automation on the Virtuoso system"</i>
	Session 4: Clinical Perspectives [Chair: Pedro Moreira, Momen Abayazid]
15:05 - 15:35	<b>Prof Silvana Perretta</b> - University of Strasbourg, IHU-Strasbourg, FR <i>Title tbc [virtual]</i>
15:35 - 16:00	Coffee Break
16:00 - 16:30	<b>Prof Kiyokazu Nakajima</b> - Osaka University, JP <i>"Limitation of using flexible robot inside the abdomen" [virtual]</i>
16:30 - 17:00	<b>Prof Philip Chiu</b> - The Chinese University of Hong Kong, HK <i>"Development of Endoluminal Robotics for Colorectal ESD - From bench to clinical translation" [virtual]</i>
17:00 - 17:10	Closing Remarks [Momen Abayazid, Pedro Moreira]