

# Israel-Italy conference on Medical and Rehabilitation Robotics

## Conference Program

Wednesday, June 1<sup>st</sup>

Technion, Sarona Campus, Tel-Aviv: Technion Building, Conference Room- floor 4

**8:30-8:50** Welcome

**8:50-10:50** Session I: *Medical Robotics*

- Back and forth from high tech manufacturing to high tech healthcare, **Tullio A.M Tolio, CNR-ITIA**
- Advanced Technologies in Rehabilitation, **Itzhak Ziv-Ner, The Rehabilitation Hospital of Sheba Medical Center**
- Contact-free sensing technology to monitor heart rate, respiratory rate and motion during bed rest in Upper Motor Neuron Syndrome: from risk management to clinical rehabilitation management,  
**Franco Molteni, Villa Beretta Rehabilitation Centre, Valduce Hospital**
- Brain-computer interfaces for robot-assisted neuro-rehabilitation, **Miriam Zacksenhaus, Technion**
- Robotics for Motor Rehabilitation at the Italian Institute of Technology: From Humanoid Robotics to Rehabilitation for Humans, **Jody Saglia, Rehab Technologies, INAIL-IIT lab**
- ELITE- Enhanced Learning Intelligence TEchnology - Personalization of Robotics Intervention,  
**Gideon Rossman, [Motorika Medical](#)**

**10:50 - 11:15** Coffee Break

**11:15 – 13:15** Session II: *Medical Robotics Systems*

- Robotics opportunities and threats in paediatric rehabilitation, **Gianluigi Reni, IRCCS E. Medea**
- Tele-care robot for assisting independent senior citizens who live at home, **Reuven Katz, Technion**
- RIPREND@home Project: Affordable Mechatronic Devices for Home Rehabilitation,  
**Lorenzo Molinari Tosatti, CNR-ITIA**
- Making neurosurgery safer: a computer-based approach, **Leo Joskowicz, The Hebrew University of Jerusalem**
- More than an insurance: research and experimentation at the INAIL Protheses Centre,  
**Emanuele Gruppioni, INAIL Protheses Centre**
- ReWalk and UPnRIDE: regain the ability to be at eye level, **Amit Goffer, [UPnRide](#)**

**13:15 - 14:15** Lunch

**14:15 – 16:15** Session III: *Medical Robotics*

- Medical Robots - current applications and future perspectives, **Moshe Shoham, Technion**
- TBD, **Amit Mor, [Apos Therapy](#)**
- Robotic upper-limb functional rehabilitation in stroke: first results and future work, **Marco Caimmi, CNR-ITIA**
- On Biorobotics and Bio,mechanics with applications in Surgery and Rehabilitation, **Alon Wolf, Technion**
- Advances in robotic rehabilitation and assisted living, **Marco Tarabini, Politecnico di Milano**
- Minimum Energy Control of Cartesian Robots with Redundancy, **Yoram Halevi, Technion**
- TBD, **Anath Fischer, Technion**

**16:15 – 17:30** Tour to Sarona Colony

**17:30 – 19:30** Visit Sheba Medical Center

**Pre-Conference - Tuesday, May 31<sup>st</sup>**

**Welcoming:** Italian Delegations and Italian Embassy *Get Together*

**Post-Conference - Thursday, June 2<sup>nd</sup>**

**Workshop:** Lectures organized by the Italian embassy and Italian trade ministry

*At Peres Center for Peace, jaffa*

- June 2 program: <https://www.eventbrite.com/e/forum-15-years-of-scientific-partnership-tickets-22690000402>
- Whole Workshop site: <http://italyandisrael.wix.com/2june>