

ER²
SCHOOL



SantoStefano
RIABILITAZIONE

2° European R²S² Robotic Rehabilitation Summer School

13-18 May 2019. Porto Potenza Picena (MC), Italy

An innovative educational approach for rehabilitation professional taking the advantage of a concrete perspective of engagement in Robotics Rehabilitation.

Promoted and organized by ESPRM - Robotic and new Technologies Committee under the auspices of PRM-UEMS Board, Simfer and SIRN. In cooperation with Santo Stefano Rehabilitation Group and International Industry Society for Advanced Rehabilitation technology.



Apply Now!

The teaching program develops in 6 full days and is characterized by highly qualified contents in Rehabilitation. Each day consists of a first part of theoretical training and a second part of broad functional and practical approach, in order to acquire the skills necessary to use the innovative and technological devices of PRM.

In addition, the aim of this 2nd edition is to provide competence also for the building and management of data collection and research activity in the medical use of these devices, even to create a further international collaboration net in the rehabilitation activity. In this aim we are creating a dedicated interactive Web site to develop a true European network for share datas and informations, experiences and research projects in Advanced technologies in Rehabilitation : we will involve all the Robotic Committee Members ,all members of Faculties and participants in RRSS ,first and second edition .

The learning activity will be completely in English.

The School will be under the organization of ESPRM Robotic Committee and in deep cooperation with UEMS PRM Section and UEMS PR Board, remaining confirmed too the cooperation with IISART, Simfer, Sirn and Ancona Medical University, while Santo Stefano (KOS Group) will be partner for event secretariat and will take care of logistic and hospitality for teachers and students.

Attendants will be up to a maximum of 25 in order to guarantee the best implementation of the practical internship activity on the different devices with the guidance of an adequate number of qualified trainers.

Alessandro Giustini, *Chair of ESPRM Robotic Committee*

Day 1: Monday, May 13

KOS Santo Stefano Rehabilitation Hospital

- 8.³⁰ a.m. Arrival of speakers and participants
Welcome addresses by ESPRM, Robotic Special Interest Group, UEMS PRM Section & Board, IISART, SIMFER, SIRN, SStefano Kos
- 9.⁰⁰ a.m. European diffusion of new technologies in PRM - *Alvydas Juocevicius*
- 9.³⁰ a.m. Needs for PRM and allied health professional education at the European and National Levels - *M.G. Ceravolo*
- 10.⁰⁰ a.m. Advanced technologies: benefits and challenges for PRM development
M.C.Carrozza
- 10.³⁰ a.m. Coffee and Tea
- 11.⁰⁰ a.m. Clinical up to date - Introduction: Experiences and devices in Robot-assisted rehabilitation of Posture and Gait disorders
E. Andrenelli, M. Collina
- 11.³⁰ a.m. Practice and Training
- 12.³⁰ a.m. Lunch
- 2.⁰⁰ p.m. Practice and Training
- 4.³⁰ p.m. Discussion. Pro/Contra - *E. Andrenelli, A. Jocevicius, M.E. Collina*
- 5.³⁰ p.m. Conclusion

Day 2: Tuesday, May 14

KOS Santo Stefano Rehabilitation Hospital

- 8.³⁰ a.m. Arrival of speakers and participants
- 9.⁰⁰ a.m. International and interprofessional networking to develop common standards for research and innovation. Cooperation between Medical and technical competences - *S. Mazzoleni*
- 9.³⁰ a.m. Cooperation between PRM specialists and companies to develop research, education and clinical applications - *A. Giustini*
- 10.⁰⁰ a.m. Team-work strategies shared by PRM professionals with Companies and IISART - *M. Keller*
- 10.³⁰ a.m. European Projects in this Field: Actual and future activities - *E. Ilieva*
- 11.¹⁰ a.m. Coffee and Tea
- 11.²⁰ a.m. Clinical up to date - Introduction: Experiences and devices in robotic rehabilitation of the upper limb and hand - *F. Posteraro, D. Tulli*
- 12.⁰⁰ a.m. Practice and Training
- 1.⁰⁰ p.m. Lunch
- 2.³⁰ p.m. Practice and Training
- 4.³⁰ p.m. Discussion. Pro/Contra - *F. Posteraro, S. Mazzoleni, E. Ilieva*
- 5.³⁰ p.m. Conclusion

- 8.³⁰ a.m. Arrival of speakers and participants
- 9.⁰⁰ a.m. Experiences and Evidences in Research
How to develop a research project (selection of outcome measures, inclusion/exclusion criteria, ethical aspects, randomization, blind assessment, sham therapy ...) - *M.G. Ceravolo*
- 9.³⁰ a.m. Presentation of some examples and draft projects: Two innovative multicentre Projects in Italy - *S. Pournajaf, D. Bonaiuti, M. Franceschini*
- 10.⁰⁰ a.m. RCT about the efficacy of upper extremity robotic assisted therapy early after stroke: discussion about the difficulty to recruit patients, convince PT & OT to participate to this RCT.
Development of RobiGame: a serious game to assess and rehabilitate neglect and upper limb motor function - *T. Lejeune*
- 10.³⁰ a.m. Technological innovation in Rehabilitation: current status, opportunities and challenges for improving quality of life of persons with disabilities
S. Mazzoleni
- 11.⁰⁰ a.m. Coffee and Tea
- 11.²⁰ a.m. Introduction - Clinical up to date
Treatment in Movement Disorders and Neurodegenerative health conditions - *M. Capecci, D. Volpe*
- 12.⁰⁰ a.m. Practice and Training
- 1.⁰⁰ p.m. Lunch
- 2.⁰⁰ p.m. Practice and Training
- 3.³⁰ p.m. Discussion. Pro/Contra - *M. Capecci, S. Pournajaf, M.G. Ceravolo*
- 4.⁰⁰ p.m. Interactive Workshop: How to become a successful clinical researcher? - *H. Stam*
- 5.³⁰ p.m. Conclusion

Day 4: Thursday, May 16

Myolab -Jesi (Ancona)

Thursday, May 16

- 8.³⁰ a.m. Arrival of speakers and participants to Myolab
- 9.⁰⁰ a.m. Welcome and presentation of Myolab facility
- 9.²⁰ a.m. Robotic Rehabilitation: How it interacts with Recovery Mechanisms (Biomechanical, Pharmacological, Neurophysiological aspects ...)
E. Andrenelli
- 9.³⁰ a.m. Motivation and Communication how to foster patients' active involvement in Participation in age of development - *A. De Tanti*
- 10.⁰⁰ a.m. Robotic rehabilitation in children with neurological disorders - *E. Ilieva*
- 10.³⁰ a.m. Italian rehabilitation experiences in rehabilitation in age of development
P. Moretti
- 11.⁰⁰ a.m. Coffee and Tea
- 11.²⁰ a.m. Clinical up to date, Rehabilitation in age of development - *A. De Tanti, P. Moretti*
- 12.⁰⁰ a.m. Practice and Training
- 1.⁰⁰ p.m. Lunch
- 2.³⁰ p.m. Practice and Training
- 4.³⁰ p.m. Discussion. Pro/Contra - *E. Ilieva, E. Andrenelli*
- 5.³⁰ p.m. Conclusion

Day 5: Friday, May 17

KOS Santo Stefano Rehabilitation Hospital

- 8.³⁰ a.m. Arrival of speakers and participants
- 9.⁰⁰ a.m. Robotic Rehabilitation: How it interacts in Rehabilitation Management. Roles in different settings from Acute to Home and Tele -Rehabilitation (Costs, Organization) - *A. Morgantini*
- 9.³⁰ a.m. Role of Physicians and Allied health Professionals in robotic rehabilitation: how to improve the patient motivation and confidence
D. Popa
- 10.⁰⁰ a.m. How to share new technologies according investments and sustainability: InterLab Experience - *M. Vallasciani*
- 10.³⁰ a.m. Artificial intelligence - *M. Zampolini*
- 11.⁰⁰ a.m. Coffee and Tea
- 11.²⁰ a.m. Clinical up to date, Advanced devices and rehabilitation protocols in Virtual Reality and remotely supervised (home) treatments
M. Capecci, L. Pepa
- 12.⁰⁰ a.m. Practice and Training
- 1.⁰⁰ p.m. Lunch
- 2.³⁰ p.m. Practice and Training
- 4.³⁰ p.m. Discussion. Pro/Contra - *M. Capecci, L. Pepa, A. Morgantini*
- 5.³⁰ p.m. Conclusion

Day 6: Saturday, May 18

KOS Santo Stefano Rehabilitation Hospital

May 18

- 8.³⁰ a.m. Arrival of speakers and participants
- 9.⁰⁰ a.m. Visit to the Smart Home
- 10.⁰⁰ a.m. How to create International working-groups, about relevant research topics under the support of RRSS and ESPRM Robotic Committee
A. Giustini, M.G. Ceravolo, D. Popa
- 11.⁰⁰ a.m. Closing remarks (*)
Delivery of Certificates
Farewell to the Third Edition (*)

() Each speech includes a final moment for questions and discussion*

TEACHERS

Elisa Andrenelli, *PRM Physicians, PhD Dept. of Experimental and Clinical Medicine - "Politecnica delle Marche" University, Ancona*

Donatella Bonaiuti, *Physiatrist, Member of the SIMFER's Board*

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TUTORS

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SCIENTIFIC COMMITTEE

Alessandro Giustini, Mauro Zampolini, Maria Gabriella Ceravolo, Thierry Lejeune, Elena Ilieva, Nicolas Christodoulou, Henk Stam, Daiana Popa, Alvydas Juocevicius, Stefano Mazzoleni, Maria Chiara Carrozza, Antonio DeTanti, Massimo Vallasciani.

How to apply

The event is open to a **maximum of 25 participants** and is open to physicians specialists and specializing in physical medicine and rehabilitation.

Participation is subject to enrollment and the payment of dues € 794,00 VAT included.

The application form can be submitted online through the Santo Stefano Rehabilitation Group site: summerschool.sstefano.it no later than **6 May 2019**.

Registration will be confirmed by an email.

As the limited number event, participation requests will be considered in the order of arrival.

General management

Participants and Faculty will be hosted, also for dinner, all together in Hotel; transportation will be offered in the morning from Hotel (to be defined) to Rehabilitation Hospital, with return in the afternoon at 17.30.

During the 5 Days a light lunch will be served at 13.00 in the KOS - Santo Stefano Rehabilitation Hospital or MioLab Facility.

The Lectures and speeches in the first part of morning will be given in the Conference room; afterwards, the participants will move to look at clinical treatments and directly test robotic and advanced devices in laboratories. At the end of training the participants will meet Faculty in the Conference room for questions and final discussion.

A social dinner will take place on Friday evening

Event Secretariat

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