

1st Doctoral Summer School on Robotics and Intelligent Machines - DRIMS2

Presentation to the DRIM PhD Board

February 21, 2023

DRIMS2 Proposers

Scientific Committee:

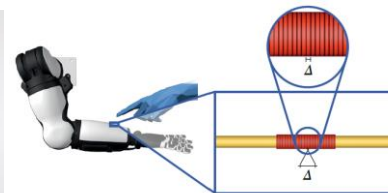
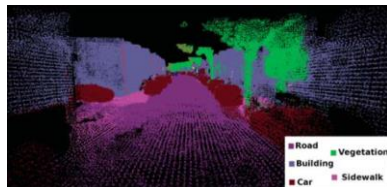
- Elena De Momi, Andrea Maria Zanchettin, Matteo Matteucci (POLIMI)
- Giovanni Berselli (UNIGE)
- Nicola Pedrocchi (CNR)
- Matteo Bianchi (UNIFI)
- Calogero Maria Oddo (SSSA)

Constant consultation with:

- Giorgio Cannata (DRIM Coordinator)
- Antonio Bicchi (I-RIM President)
- Maria Fossati, Alessandro Settini (I-RIM)

Key points of DRIMS2 organization

- DRIMS2 will address the core learning topics of robotics and intelligent machines
- Each day will be organized around a specific topic (robot operating system, mechanical design and actuators, control and human-centered robotics, sensing and perception), with a keynote, basic and advanced tutorials and hands-on sessions; round tables and sessions focusing on soft-skills are planned
- Students will be organized in supervised groups to address practical projects enabled by the acquired competences and available instrumentation
- In-kind support with instruments provided by industrial stakeholders: collaborative robotic platforms already secured, call to be launched soon for additional instruments (e.g., 3D printers and vision systems)
- Financial support via I-RIM budget of ARTES 5.0 EDIH (DRIM Consortium needed for eligibility of costs)
- Industrial sponsorships via «I-RIM supporting memberships» (soci sostenitori) + complementary packages
- Default admission of DRIM PhD students + call for admission of other PhD students (criterion to be finalized: first-comes-first-served or evaluation of applications)



Proposed venue and dates



- Scuola Internazionale di Alta Formazione (SIAF) **Volterra**: campus that can accommodate up to 200 guests offering accommodation, classrooms, recreation areas, services, didactic supports
- Target number of participants: 100 students + lecturers and support staff
- August 30 – September 5, 2023



Draft program

About 40h of activities (ECTS?)

Wed Aug 30th	Thu Aug 31st	Fri Sept 1st	Sat Sept 2nd	Sun Sept 3rd	Mon Sept 4th	Tue Sept 5th
	Robot design and actuators	Control and human- centered robotics	Vision Sensing	TRIP	Tactile Sensing	Project presentation
	Basics and advanced tutorials	Basics and advanced tutorials	Basics and advanced tutorials		Basics and advanced tutorials	
Course intro	Keynote: Dario Floreano	Keynote: Alessandro De Luca	Keynote: Alessio Del Bue (TBC)		Keynote: Domenico Prattichizzo	Keynote: Angelika Peer
Basics and advanced tutorials	Supervised hands-on	Supervised hands-on	Supervised hands-on		Supervised hands-on	Awards
Meet the leaders Cannata, Bicchi, Menciassi, Dario, Siciliano (TBC), ...	Ethics, Legal, Societal, Economic Issues Roundtable	Research Methodology	Companies			