

# IURS-2005-ESNR Summer School on Robotics and Neuroscience

## Program

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>8:30</b>		Welcome	Students' presentation	Bus Trip to Jaume I University	Students' presentation	Students' presentation
<b>9:00</b>						
<b>9:30</b>		Dario (1)	Johansson (1)		Fadiga (1)	Carrozza
<b>10:00</b>				Lab		
<b>10:30</b>		Dario (2)	Johansson (2)		Fadiga (2)	Berthouze (2)
<b>11:00</b>		Break	Break	Break	Break	Break
<b>11:30</b>		McIntyre (1)	McIntyre (2)		Berthouze (1)	Panel Discussion and Farewell
<b>12:00</b>				Lab		
<b>12:30</b>		Lunch	Lunch		Lunch	Lunch
<b>13:00</b>						
<b>13:30</b>		Active Siesta	Active Siesta	Lunch	Active Siesta	
<b>14:00</b>						
<b>14:30</b>		Goodale (1)	Goodale (2)		Poster Session	
<b>15:00</b>				Fagg Video Conference		
<b>15:30</b>		Demiris	McIntyre (3)			
<b>16:00</b>	Reception at Bonaire Hotel	Break	Break			
<b>16:30</b>		Carmena (1)	Carmena (2)	Lab		
<b>17:00</b>						Free Afternoon Activities
<b>17:30</b>						
<b>18:00</b>					Bus Trip to Benicàssim	
	From 19:30: Welcome Cocktail					
				From 20:30: Dinner		

<b>Talks</b>	<b>Active times</b>	<b>Meals/Social Activities</b>
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# List of Talks

## **Paolo Dario**

- (1) The fusion of Neuroscience and Robotics
- (2) The cybernetic prosthetic hand

## **Joe McIntyre**

- (1) Introduction to control theory and basic methods for modeling biological systems
- (2,3) Elaboration of force/acceleration information by the brain

## **Melvyn Goodale**

- (1) The origins of vision: Vision as a sensorimotor system
- (2) Duplex vision in the cerebral cortex: How (and why) the visual control of action differs from visual perception

## **Yiannis Demiris**

Perceiving others: Perspectives from Neuroscience and Robotics

## **Jose Carmena**

- (1) Introduction to brain-machine interfaces
- (2) Brain-control of artificial devices: from monkeys to humans

## **Roland Johansson**

- (1) Human tactile sensory mechanism with reference to object interaction
- (2) Event based multimodal sensory control in human dexterous object manipulation

## **Luciano Fadiga**

- (1) Electrophysiological approach to high order motor representations in humans
- (2) The mirror-neuron system

## **Luc Berthouze**

- (1) Developing humanoids and complex motor systems taking inspiration from developmental psychology and biology
- (2) Combining computational modeling and functional brain imaging to understand imitation

## **Maria Chiara Carrozza**

Biomechatronic design of an exoskeleton for the upper limb