



Workshop on Societal Applications of Humanoid Robots

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Rodolphe Gelin

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Amit Kumar Pandey

Rachid Alami

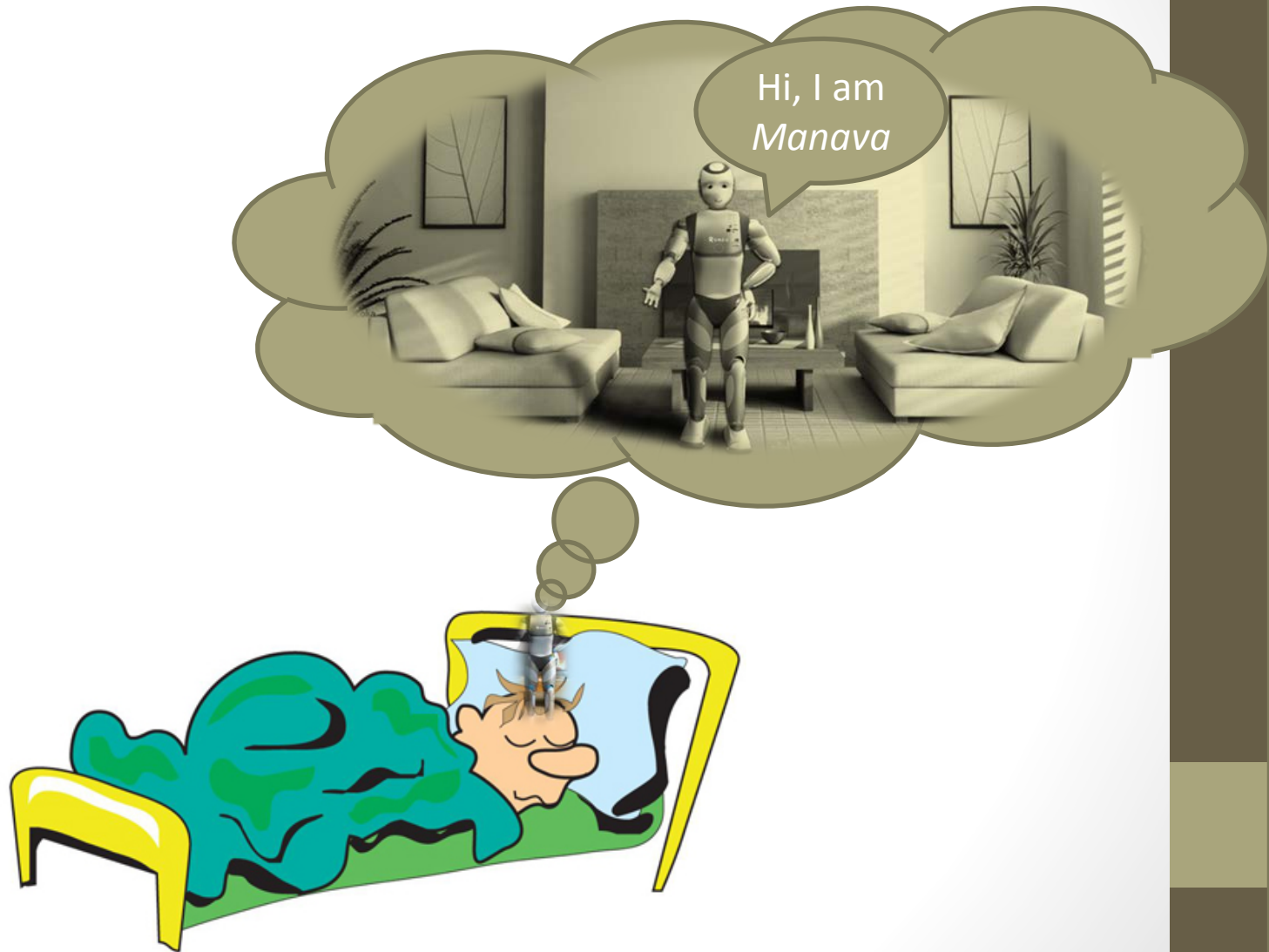
LAAS-CNRS

European Robotics Forum (ERF) 2014

Rovereto, Italy

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A Dream...



A Dream...

Keep good
habits!!!
Exercise Time...

I woke up in my dream...



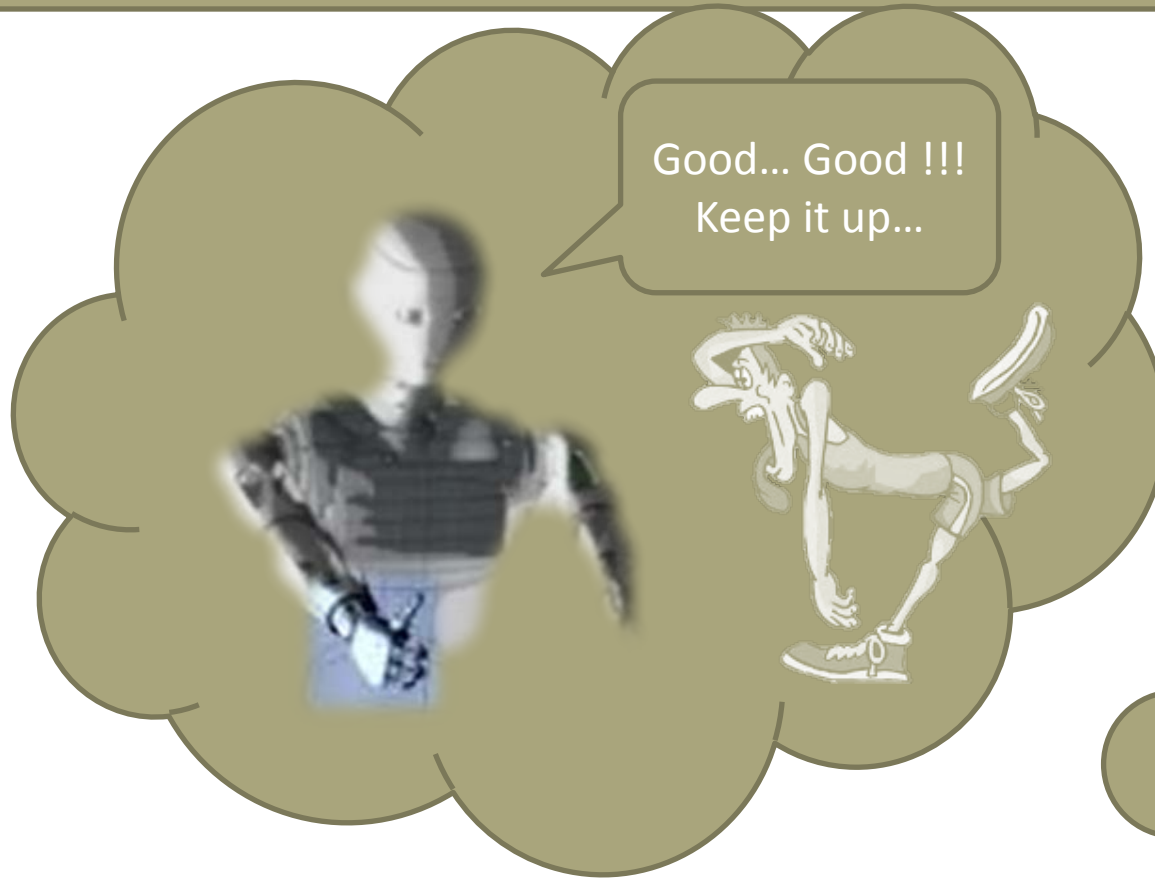
A Dream...

Do like this...

Fetches me into exercise...



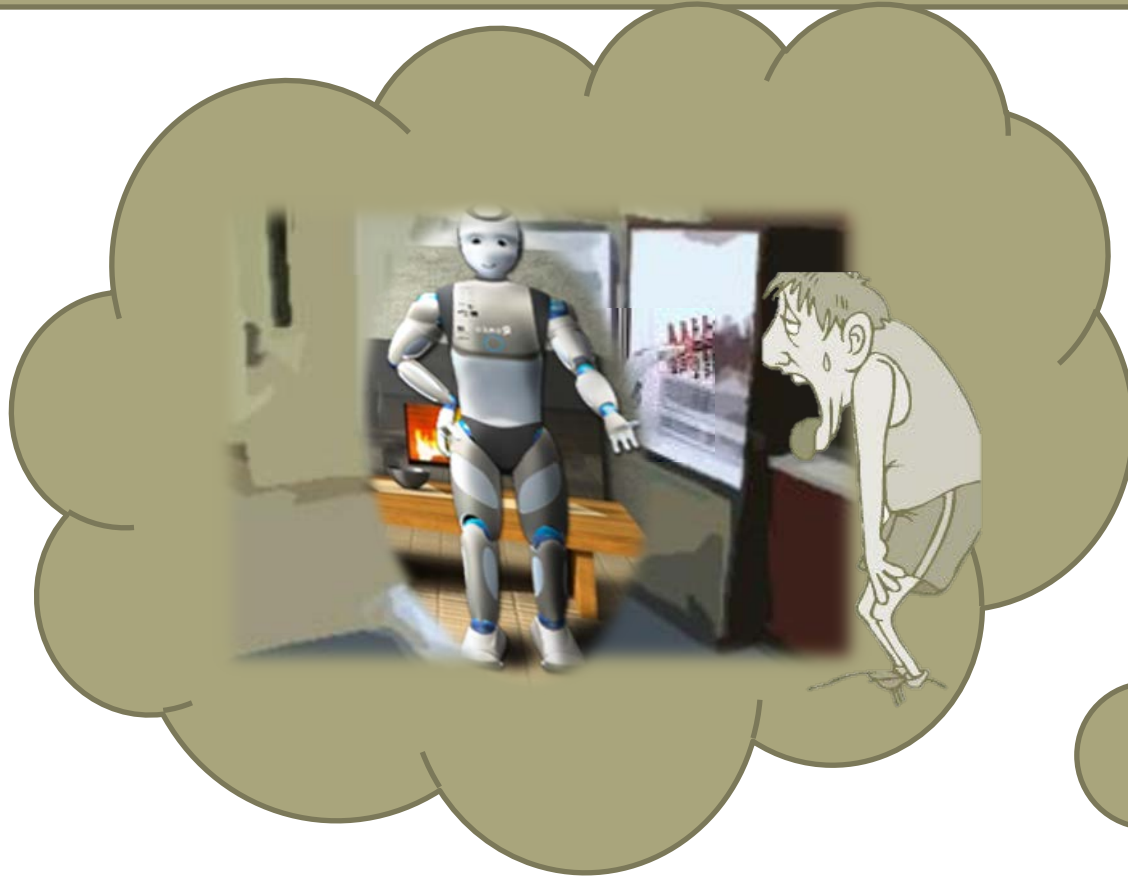
A Dream...



Appreciates me ...



A Dream...



Now I am really tired!

The very kind Manava
proactively goes to bring
drink for me.



A Dream...

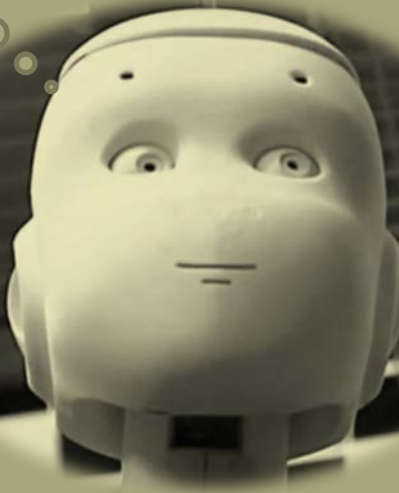


I happily leaves for offices.



A Dream...

Everything is
OK and safe



Manava is on home
surveillance duty.



A Dream...

Let me
assist you.



Surprise visit of my
grandfather with my
nephew.



A Dream...



How are
you?

Manava is capable of
interactively teaching
children with *autism*.
My nephew is happy to
spend time with Manava.



A Dream...

He will like
this food

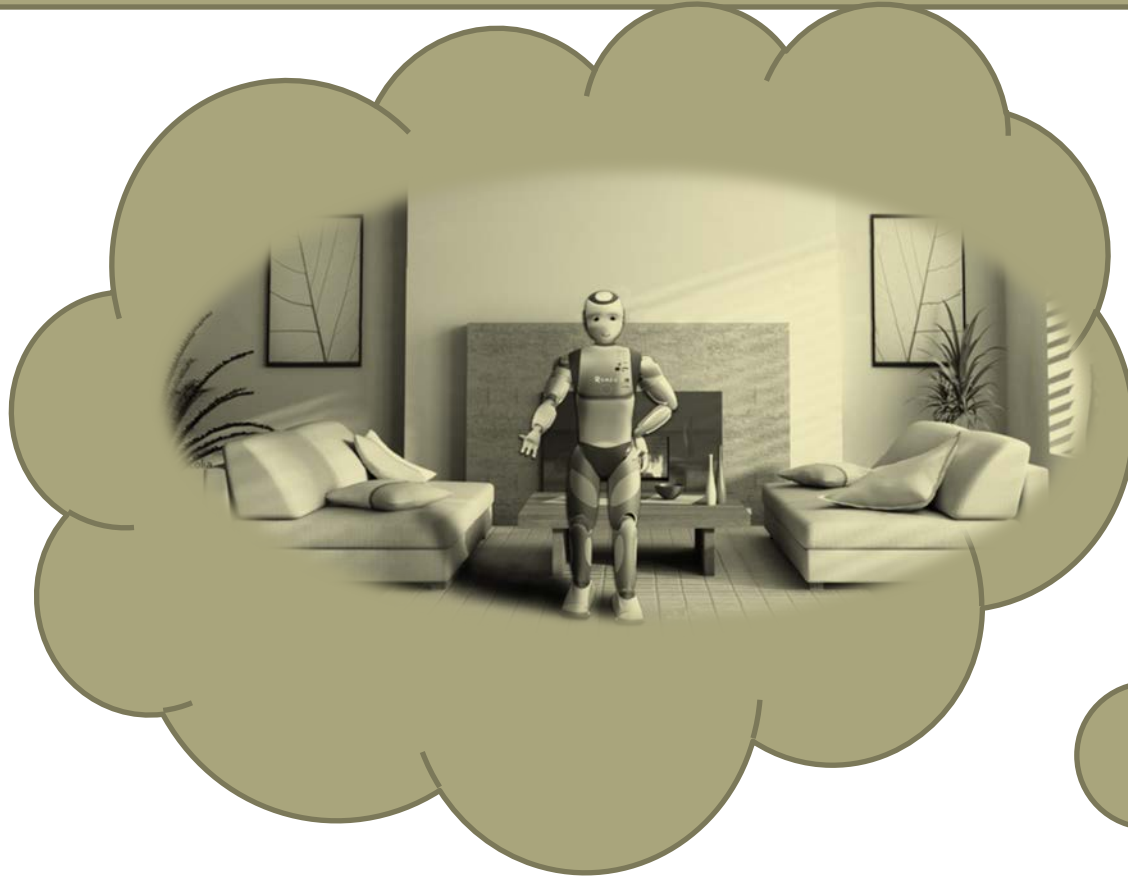
His
grandfater
likes tidiness

It time for me to come.



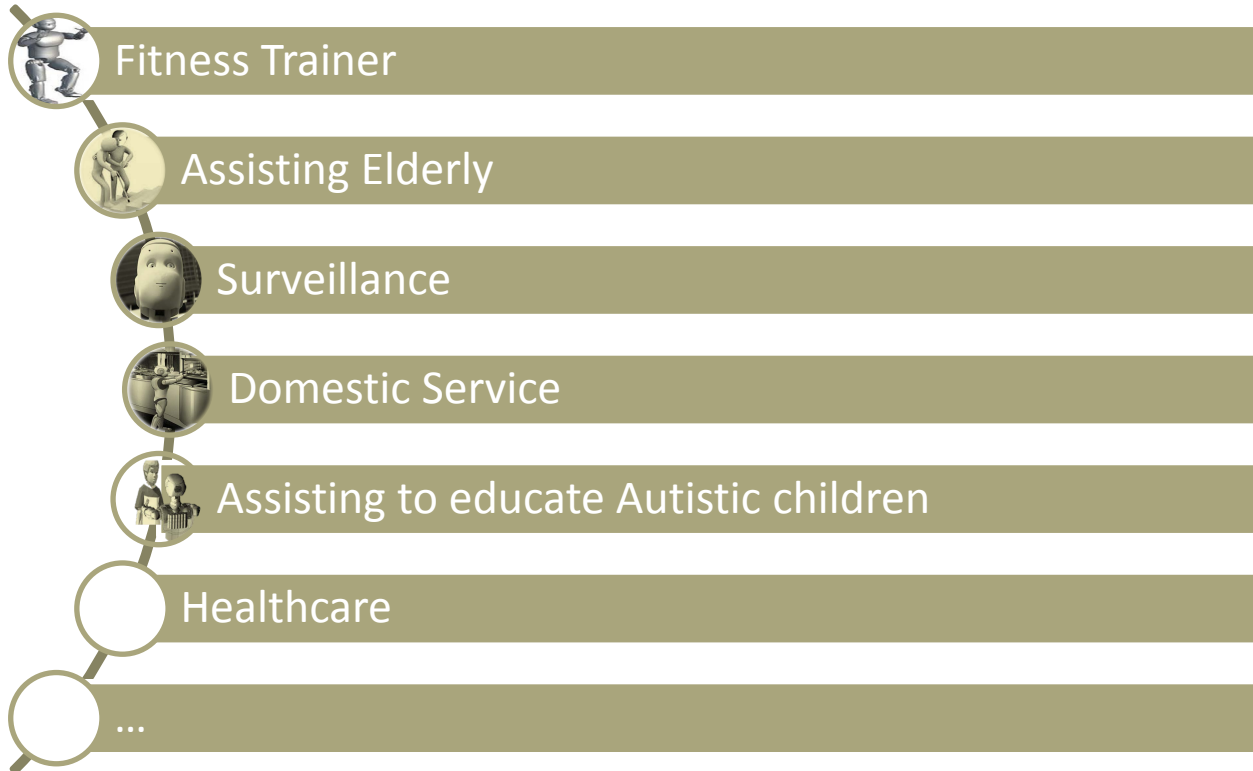
A Dream...

And the dream continued...



A Dream???

Is it still a dream?



- Are robots already there for the betterment of society?

We will try to get answered:

- Are robots already there for the betterment of society?
 - If yes, in what sense? What are those societal applications?
 - If not yet completely, how far they are?
 - What are the societal needs?
 - What are key R&D challenges?
 - And how are we progressing?
 - ...

Workshop Summary

16:00-16:05	Welcome & Introduction	Amit Kumar Pandey
16:05-16:30	Invited Talk	Prof. Kerstin Dautenhahn University of Hertfordshire, UK
16:30-16:50	Invited Talk	Mr. Rodolphe Gelin Aldebaran Robotics, France
16:50-17:10	Invited Talk	Dr. Rachid Alami LAAS-CNRS, France
17:10-17:35	Invited Talk	Prof. Mohamed Chetouani ISIR, France
Cancelled		
17:35-17:55	Panel Discussion: What are the immediate needs of the society from the Humanoid robots?	Invited Panelists
17:55-18:00	Closing Remarks	Amit Kumar Pandey

Panel Discussion

Theme:

What are the immediate needs of the society from the Humanoid robots?

- What are key R&D challenges?
- And how are we progressing?
- Are robots already there for the betterment of society?
 - If yes, in what sense? What are those societal applications?
 - If not yet completely, how far they are?
- ...

Workshop Summary

Robot as Social Mediator.

Children with *Autism*,

How to facilitate them to interact socially with other people, **not only** with robots.

Children interact ***differently*** with ***robots*** than ***toy***.

Diversity in the robot's appearance matters.

Amit Kumar Pandey

Prof. Kerstin Dautenhahn
University of Hertfordshire,
UK

Proof of concept that ***robot can really be used for assistant at home.***

Different applications on the way:

- *Children at hospital*
- *Children with autism*
- *Elderly person*
- ...

Mr. Rodolphe Gelin
Aldebaran Robotics, France

Dr. Rachid Alami
LAAS-CNRS, France

Mohamed Chetouani
ISIR, France

The domain adds a new dimension in Robotics research: Human and reasoning about need to be taken seriously.

Collaborative robots:

- Beyond safety, ***plan*** and ***adapt*** with us and just because of our *simple presence and observation*.

17:35-17:55	Panel Discussion: What are the immediate needs of the society from the Humanoid robots?	Invited Panelists
17:55-18:00	Closing Remarks	Amit Kumar Pandey