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**OFI** MODENA  
REGGIO EMILIA

ORDINE FISIOTERAPISTI



# LA FISIOTERAPIA IN TUTTI I LUOGHI DI VITA:

## COMPETENZE, ESPERIENZE E PROSPETTIVE IN EMILIA ROMAGNA

*Venerdì 8 Settembre 2023*

*Sala Farnese Palazzo D'Accursio | P.zza Maggiore, 6 Bologna*





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# Intelligenza Artificiale: smart hospital e smart cities

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## Artificial Intelligence (AI)

Disciplina che studia se e in che modo si possano realizzare sistemi informatici intelligenti in grado di simulare la capacità e il comportamento del pensiero umano.

- Agire in modo analogo a quanto fatto dagli esseri umani
- Pensare in modo analogo a quanto fatto dagli esseri umani
- Pensare razionalmente
- Agire razionalmente

Interesse comune dibattuto tra scienziati e filosofi poiché manifesta aspetti etici oltre che teorici e pratici.

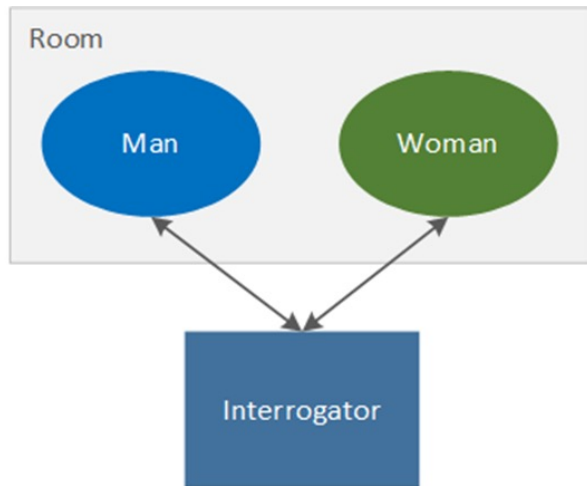


## AI Ambiti di Ricerca

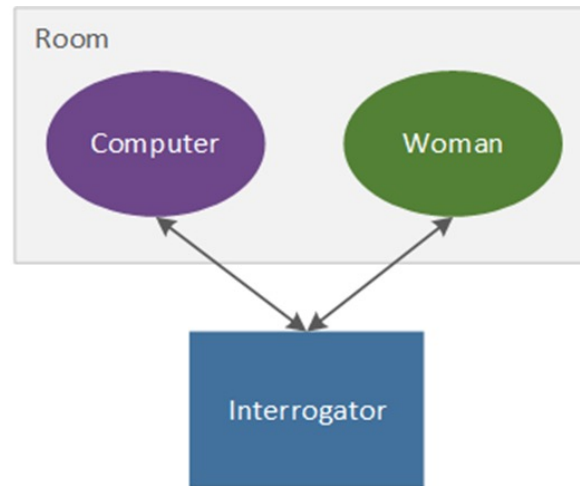
- Al forte (coscienza del ragionamento) e debole (comportamento intelligente definito)
- Deduzione, ragionamento, problem solving
- Rappresentazione della coscienza
- Pianificazione
- Apprendimento
- Elaborazione del linguaggio naturale (Natural Language Processing – NLP)
- Movimento e manipolazione (robotica)



## From origin to now



BEFORE SUBSTITUTION



AFTER SUBSTITUTION

Turing Test (The Imitation Game), 1950

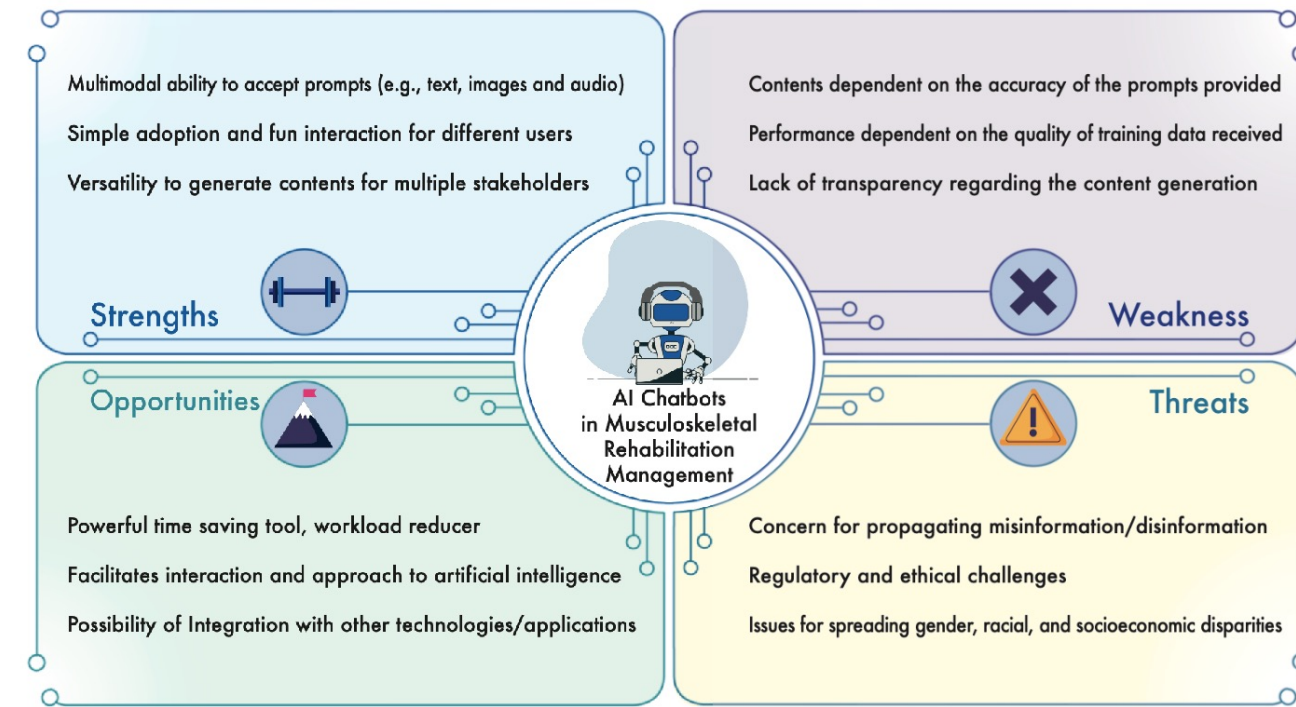
### Algoretica (2023)

(religioni abramitiche, Microsoft, IBM)

- Trasparenza
- Inclusione
- Responsabilità
- Imparzialità
- Affidabilità
- Sicurezza e privacy



## Pros and Cons of using Artificial Intelligence Chatbots for Musculoskeletal Rehabilitation Management







Aim	Name	Source*	
Writing assistance	DeepL Write	<a href="https://www.deepl.com/write">https://www.deepl.com/write</a>	
	Istatex	<a href="https://instatext.io">https://instatext.io</a>	
	Grammarly	<a href="https://app.grammarly.com/">https://app.grammarly.com/</a>	
	QuillBot	<a href="https://quillbot.com/">https://quillbot.com/</a>	
	Trinka	<a href="https://www.trinka.ai/">https://www.trinka.ai/</a>	
	Grammar Check	<a href="https://www.grammarcheck.ai">https://www.grammarcheck.ai</a>	
	ProWritingAid	<a href="https://prowritingaid.com">https://prowritingaid.com</a>	
	Sentence Checkup	<a href="https://sentencecheckup.com">https://sentencecheckup.com</a>	
	Slick Write	<a href="https://www.slickwrite.com/#home">https://www.slickwrite.com/#home</a>	
Translation	DeepL Translator	<a href="https://www.deepl.com/translator">https://www.deepl.com/translator</a>	
	Google Translate	<a href="https://translate.google.com/">https://translate.google.com/</a>	
	Bing Translator	<a href="https://www.bing.com/translator">https://www.bing.com/translator</a>	
	Reverso Translation	<a href="https://www.reverso.net/text-translation">https://www.reverso.net/text-translation</a>	
	Taia	<a href="https://taia.io">https://taia.io</a>	
	Systran Translate	<a href="https://na-translate.systran.net">https://na-translate.systran.net</a>	
	Smartling	<a href="https://www.smartling.com">https://www.smartling.com</a>	
	SmartCat	<a href="https://www.smartcat.com/machine-translation/">https://www.smartcat.com/machine-translation/</a>	
	TextUnited	<a href="https://www.textunited.com">https://www.textunited.com</a>	
	Language I/O	<a href="https://languageio.com">https://languageio.com</a>	
	Writing generator	ChatGPT	<a href="https://chat.openai.com/">https://chat.openai.com/</a>
		Copy.ai	<a href="https://www.copy.ai/">https://www.copy.ai/</a>
Texta		<a href="https://www.texta.ai/">https://www.texta.ai/</a>	
ChatSonic		<a href="https://writesonic.com/chat">https://writesonic.com/chat</a>	
Writer		<a href="https://writer.io/">https://writer.io/</a>	
Writerly		<a href="https://writerly.ai/">https://writerly.ai/</a>	
Google Bard		<a href="https://bard.google.com/?hl=en">https://bard.google.com/?hl=en</a>	
Perplexity		<a href="https://www.perplexity.ai">https://www.perplexity.ai</a>	
Jasper.ai		<a href="https://www.jasper.ai">https://www.jasper.ai</a>	
Claude		<a href="https://www.anthropic.com/index/introducing-claude">https://www.anthropic.com/index/introducing-claude</a>	

## AI Tools

Aim	Name	Source*
Research assistant	Elicit	<a href="https://elicit.org">https://elicit.org</a>
	Research rabbit	<a href="https://www.researchrabbit.ai">https://www.researchrabbit.ai</a>
	Inciteful	<a href="https://inciteful.xyz">https://inciteful.xyz</a>
	R Discovery	<a href="https://discovery.researcher.life">https://discovery.researcher.life</a>
	Scholarcy	<a href="https://www.scholarcy.com">https://www.scholarcy.com</a>
	Scite	<a href="https://scite.ai/home">https://scite.ai/home</a>
	Notion	<a href="https://www.notion.so">https://www.notion.so</a>
	Wizdom	<a href="https://www.wizdom.ai">https://www.wizdom.ai</a>
	SciSpace	<a href="https://typset.io">https://typset.io</a>
	Consensus	<a href="https://consensus.app">https://consensus.app</a>
Artificial intelligence detector	DetectGPT	<a href="https://detectgpt.com">https://detectgpt.com</a>
	GPTZero	<a href="https://gptzero.me">https://gptzero.me</a>
	Originality.ai	<a href="https://originality.ai">https://originality.ai</a>
	Plagibot	<a href="https://plagibot.com">https://plagibot.com</a>
	Writer	<a href="https://writer.com/ai-content-detector/">https://writer.com/ai-content-detector/</a>
	Copyleaks	<a href="https://copyleaks.com/ai-content-detector">https://copyleaks.com/ai-content-detector</a>
	Content at Scale	<a href="https://contentatscale.ai/ai-content-detector/">https://contentatscale.ai/ai-content-detector/</a>
	Sapling	<a href="https://sapling.ai/ai-content-detector">https://sapling.ai/ai-content-detector</a>
	Turnitin	<a href="https://www.turnitin.com/products/features/ai-writing-detection">https://www.turnitin.com/products/features/ai-writing-detection</a>
	Compilatio	<a href="https://www.compilatio.net/en">https://www.compilatio.net/en</a>

Giacomo Rossetini, Chad Cook, Alvisa Palese, Paolo Pillastrini, Andrea Turolla, JOSPT *in press*



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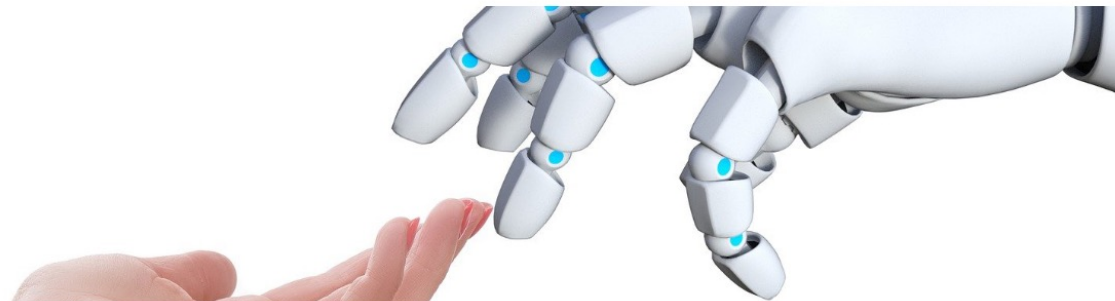
# Smart Hospital

(<https://www.hosmartai.eu/>)

✉ info@hosmartai.eu



THE PROJECT ▾ PLATFORM PILOTS OPEN CALLS ▾ BLOG EVENTS KNOWLEDGE BASE ▾ CONTACTS SUBSCRIBE



HosmartAI – “Hospital Smart development based on AI”, aims to be the most relevant player for the digital transformation of the European healthcare sector, to make the European healthcare system more strong, efficient, sustainable and resilient.

**24**

partners

**12**

European countries

**H2020**

€10 million fund

**Duration**

2021-2024

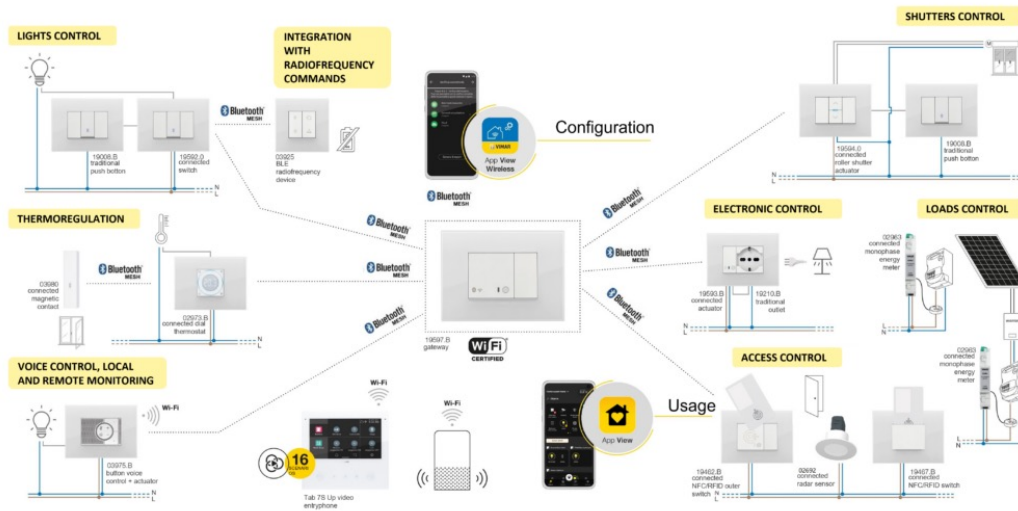




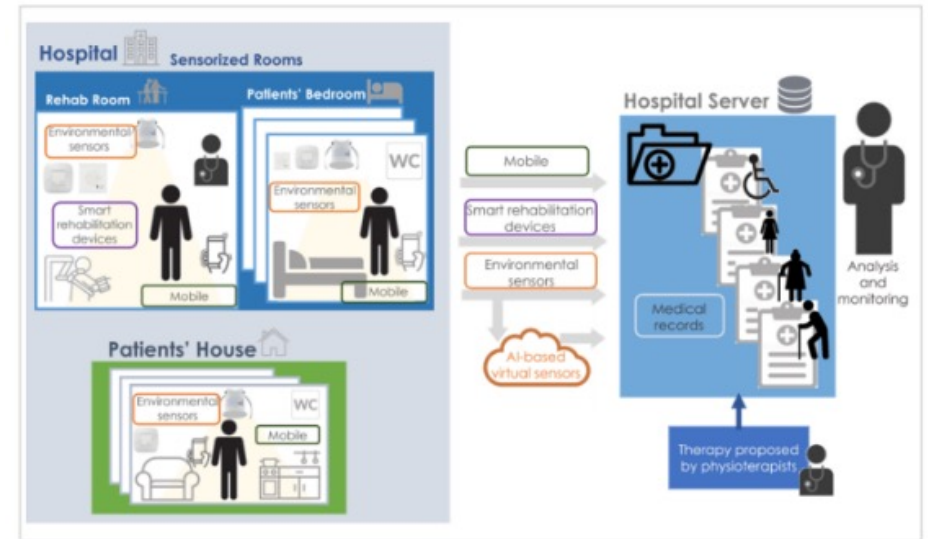
## Pilot 3

### Improving treatment with innovative technologies in the rehabilitation process

#### Civil application



#### Hospital translation



PT : PZ

1 : 1

1 : 2

1 : 3

Outcome



## Take home messages

### Findings:

- AI chatbots are a form of artificial intelligence model designed to understand, interpret and generate texts similar to natural human language.
- AI chatbots can influence educational, clinical and research fields in rehabilitation.

### Implications:

- There is a need for internationally agreed principles, guidelines and rules to guide the ethical implementation of AI chatbots in the rehabilitation field.

### Cautions:

- AI chatbots (and other artificial intelligence platforms), as acknowledged to date, has both potential benefits and limitations that demand conscientious use.



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# Grazie per l'attenzione!

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