

NEXT VISION N

Spin-off of the University of Catania

<https://www.nextvisionlab.it/>

Artificial Intelligence to
Assist Humans Where They Live and Work

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Università
di Catania



Founders



xenia[®]
SOFTWARE SOLUTIONS



Dr. Francesco Ragusa
Chief Executive Officer
Chief Technology Officer



Dr. Antonino Furnari
Chief R&D Officer



Prof. Giovanni Maria Farinella
Chief Scientific Officer

An academic Spinoff of UNICT
based in Sicily with an International Vision

Team



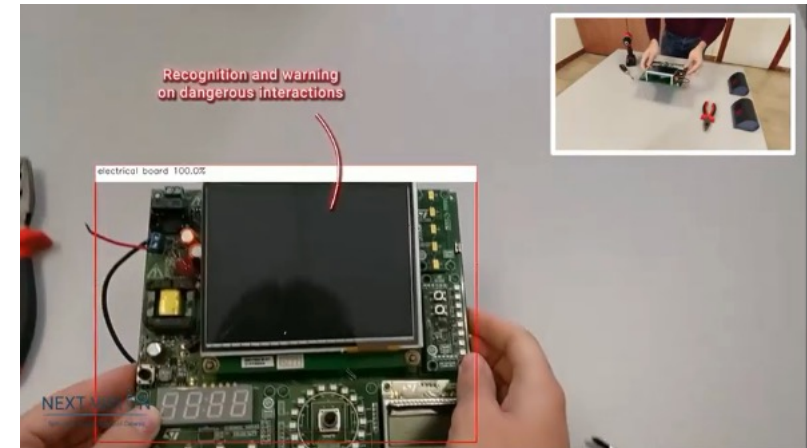
Three Solutions



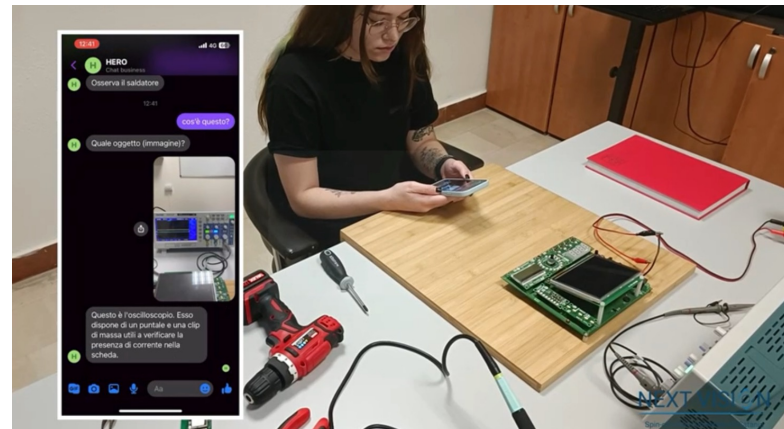
NAIROBI: Indoor Visual Navigation



NAOMI: Image-Object Interaction Understanding



HERO: Human-Machine Interaction



NAIROBI



Intelligent Navigation



Image-based Localization



Augmented Reality



Multi-platform



Founders of Next Vision are authors of patents related to the developed technologies



Demo Video



CES, Consumer Electronics Show
3150 Paradise Rd, Las Vegas Convention Center Las Vegas, NV 89109

What are you looking for?

FAV	Alndo	34m	23s
FAV	AlSent	9m	6s
	Area Food	48m	32s
FAV	Aspechome srl	27m	19s
FAV	Domethics	10m	7s
FAV	Evolvo-Mobility Solutions	31m	21s
FAV	Fifth Ingenium	17m	11s
FAV	Flywallet	34m	23s
FAV	GeckoWay	7m	4s
FAV	Gemateg Italia	13m	9s
FAV	Haura	13m	9s
FAV	Humanfactorx	3m	2s
FAV	Interweb-Huknow	7m	4s
FAV	It's Prodigy	17m	11s
	Jetro	12m	8s

NOKIA



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UNIONE EUROPEA



REPUBBLICA ITALIANA



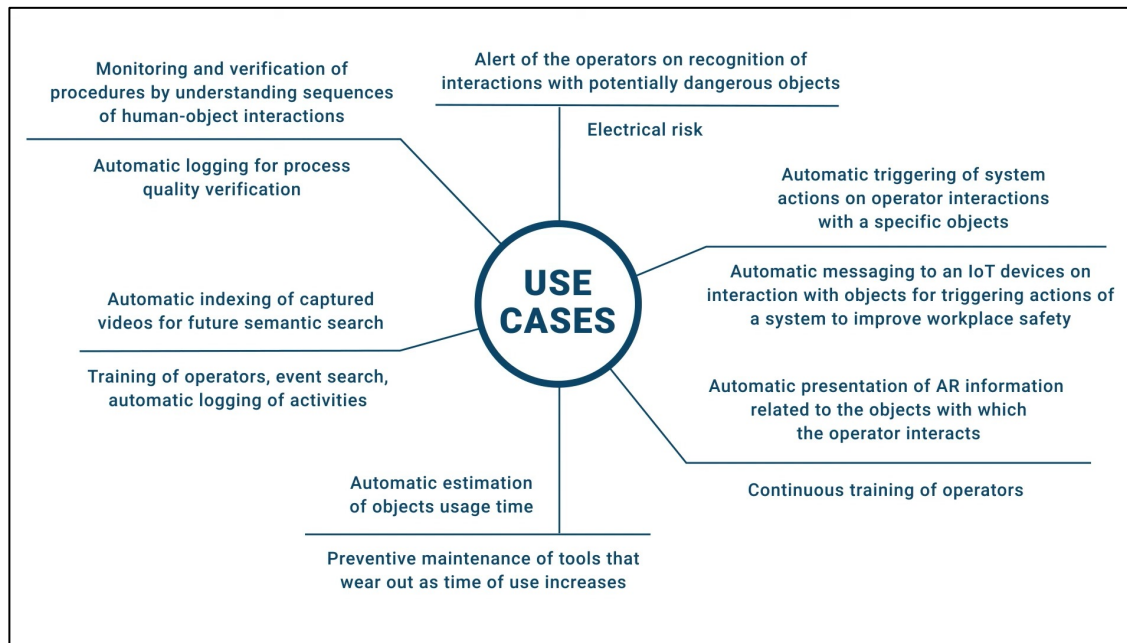
REGIONE SICILIANA



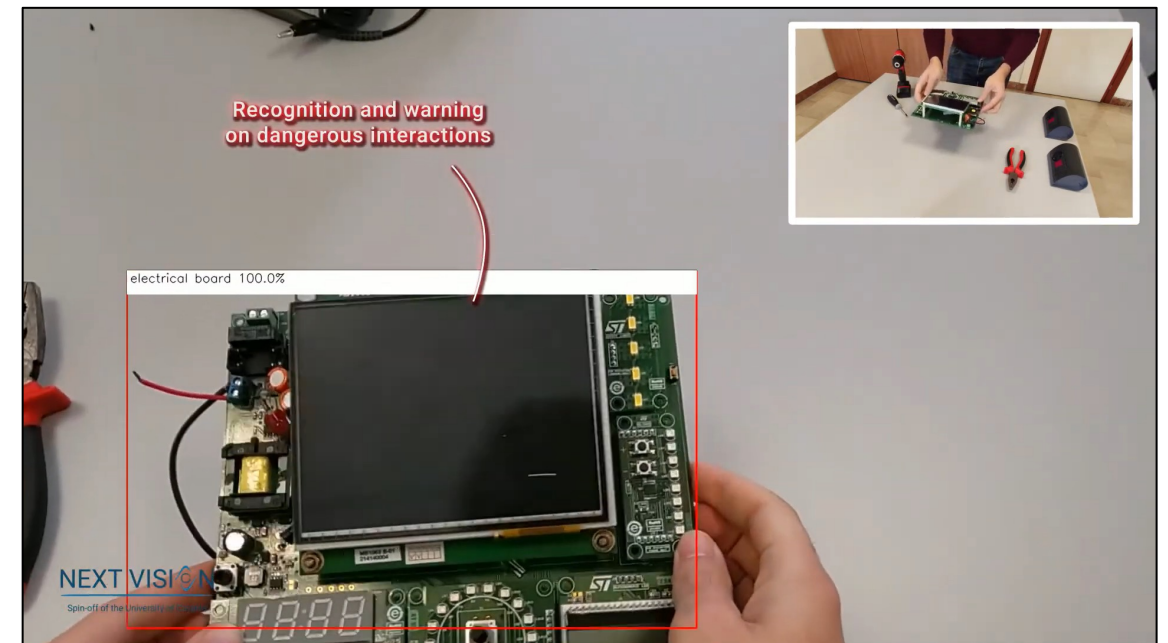
NAOMI



- **NAOMI** is an AI Assistant able to support humans to monitor interactions, predict/anticipate next interactions, verify correctness in a sequence of interactions.



Use cases

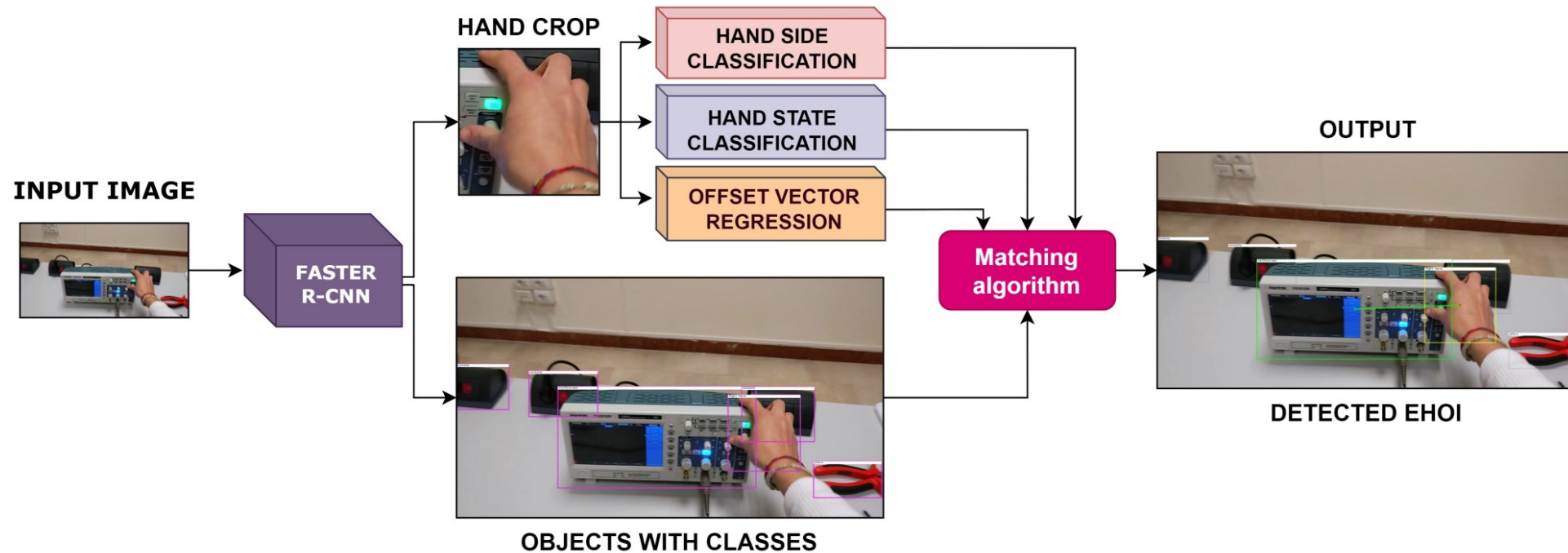


The video shows an example of object interaction monitoring. The operator is notified on an interaction with a dangerous object.

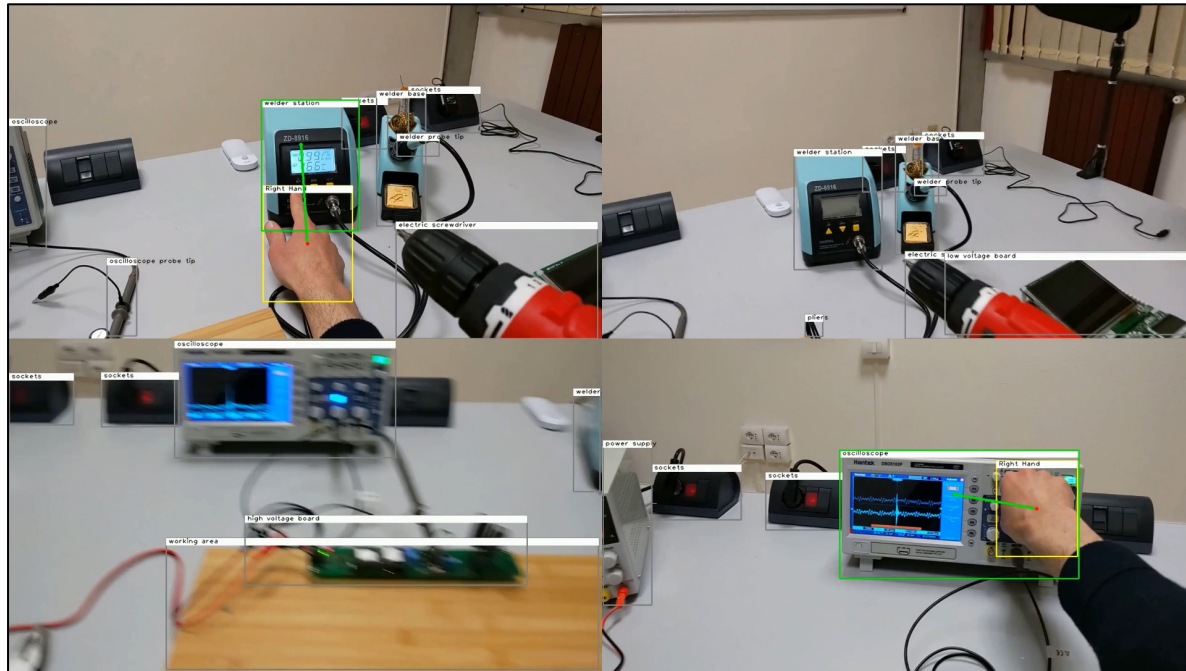
NAOMI: Architecture



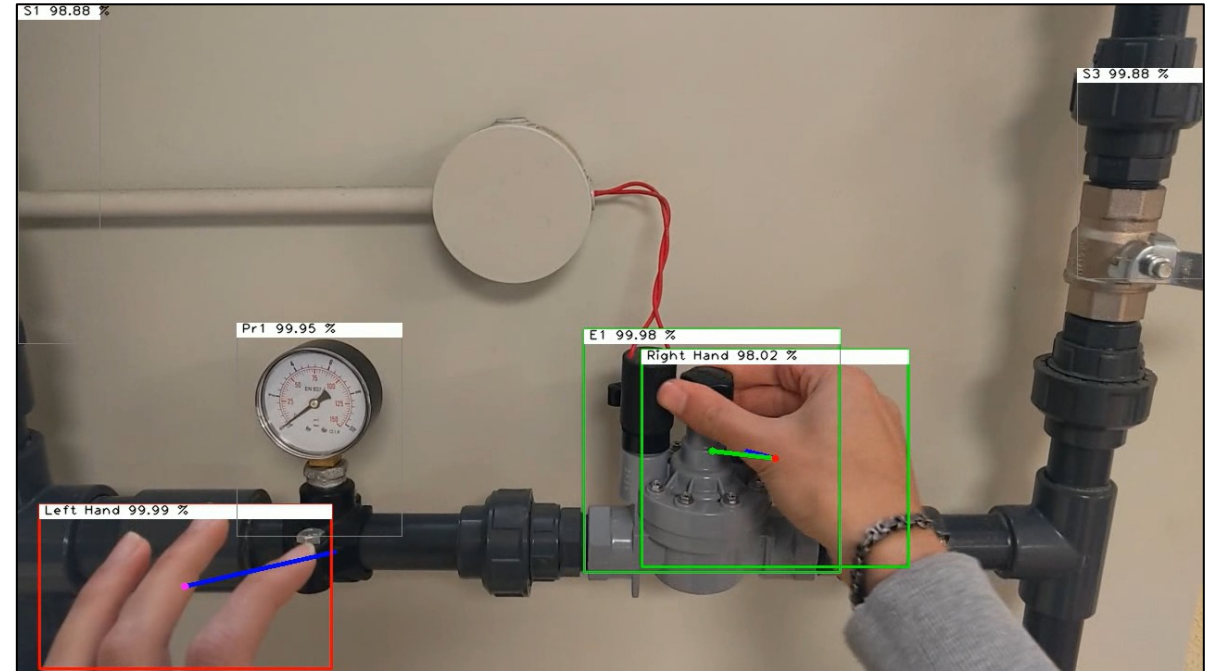
- Our system extends a two-stage object detector with additional modules specialized to recognize human-object interactions.
- The proposed method exploits different data signals, such as instance segmentation maps and depth maps, to improve the performance of classic HOI detection approaches.



Demo Video: Industrial scenarios



Industrial Laboratory



Hydraulic Panel



GOAL:

- Support workers in unknown industrial domains and complete industrial procedures with ease

FEATURES:

- Understands questions posed in natural language
- Exploits visual cues obtained from images made by the user from their point of view
- Answers in natural language

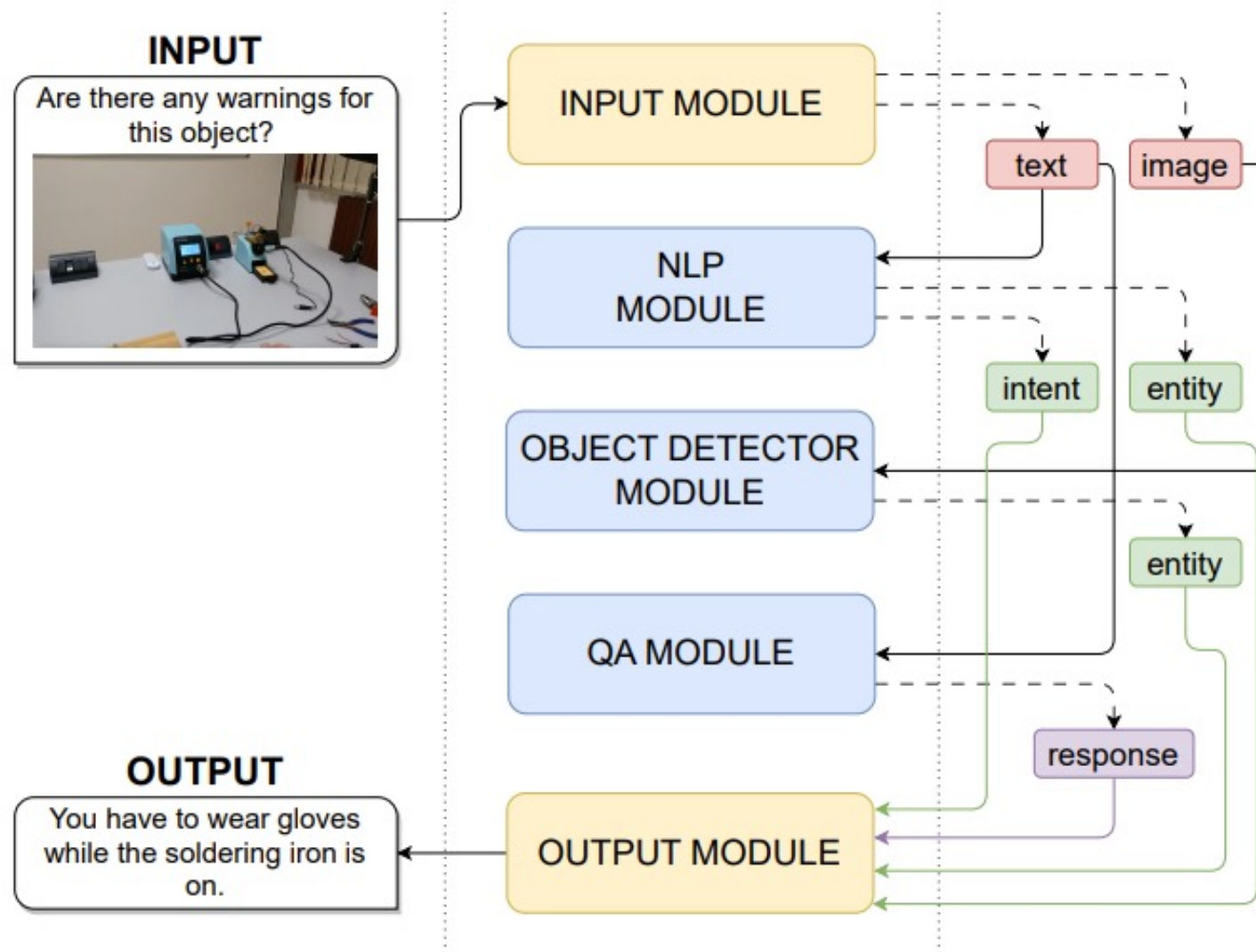


What's this object?
How am I supposed
to use that?



This is the power supply.
Adjust the current knob until
the green LED lights up.





Demo Video



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