



# AI in Medicine and Healthcare: Modes, Practices and Challenges

18<sup>th</sup> July 2023

AI is generally considered the ultimate IT step in addressing medicine and healthcare challenges. Many medical devices are starting to incorporate AI capabilities translated in enhanced imaging systems, smart robots, wearable technology, data analysis and simulation platforms. AI can support clinicians with imaging and diagnostics, generate predictions that assist in decision making, support in surgical procedures...

But as it happens in other domains of AI application, markets have not yet addressed the complexities and impacts of incorporating AI capabilities. This is a potential cause for concern because while AI can improve medical devices, many are not regulated in such a specific way that caters to their AI functionalities.

This workshop thus looks to gather researchers -from a range of disciplines that converge and intersect in this framework- designers as well as clinical practitioners to discuss the most pressing topics and develop a truly multi-disciplinary community capable of addressing the challenges posed by those technologies.

The workshop will be conducted in a hybrid format, with the in-person component hosted by the University of Utrecht.

## Topics of interest include, but are not limited to the following:

- AI powered Medical Tools: The State of the Art
- AIS in Clinical Practice: Lessons Learnt and Best Practices
- AI in Medicine: The European Regulatory Framework
- Benchmarking and Standardization of Medical AI devices.
- What does it mean to Trust a Medical AIS
- Automation-induced complacency: how to avoid it

## Submissions:

We invite authors to submit papers that are no more than 12 pages long, including figures, but excluding references. All papers for the workshop must be submitted, in the same format as ICRES papers, <https://clawar.org/icres2023/instructions-to-authors/-by> the **30<sup>th</sup> of April**, referring to the title of the workshop at the top. Notification of paper acceptance: **15<sup>th</sup> of May**. Submission of final version- **1<sup>st</sup> of June**. At least one author of each accepted paper must attend the workshop.

## Program (TBA)

**Organizer:** Maria Isabel Aldinhas Ferreira

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and

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