

Call for Contributions

1. Inform the Chair: with the Title of your Contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=HEALTHINFO+2021+Special>

Please select Track Preference as **ETHI**

3. Note: *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

ETHI: Explainable Technologies in Health Informatics

Chairs

Dr Laura Moss, Honorary Senior Lecturer, University of Glasgow & NHS Greater Glasgow & Clyde, UK
laura.moss@glasgow.ac.uk

Dr David Corsar, Lecturer, Robert Gordon University, UK
d.corsar1@rgu.ac.uk

HEALTHINFO 2021: The Sixth International Conference on Informatics and Assistive Technologies for Healthcare, Medical Support, and Wellbeing

<https://www.iaria.org/conferences2021/HEALTHINFO21.html>

October 03 - 07, 2021 - Barcelona, Spain

Empirical studies are fundamental to understand and improve the software development. The use of sophisticated analysis and technology in healthcare is increasingly being adopted. For the successful introduction and widespread adoption of new technology and results of health informatics analyses into healthcare environments, establishing and maintaining clinician trust and understanding is paramount. This is particularly the case for models and analyses which support clinical decision making. Further, the European Union directive for General Data Protection Regulation (GDPR) and similar, country specific, regulations state the requirement for a right to explanation of all decisions made by automated or artificially intelligent algorithmic systems. However, explaining the decision-making and results of these approaches is often non-trivial.

We are interested in contributions which address the explainability of technology used in healthcare and health informatics techniques and their results, making them more transparent, interpretable, and ultimately understandable by clinicians and/or patients. This call is purposefully wide in scope, and we encourage contributions ranging from theoretical approaches and discussions to case studies describing real-world clinical implementations.

Topics include but are not limited to:

- Methods of explainability (e.g., machine learning, statistical approaches, case-based reasoning, semantic technologies, natural language processing and generation, visualisations)
- Explanations for fairness, accountability, and trust in health informatics
- Ethical perspectives of automated explanation generation in health informatics
- Automated explanations of decision support systems
- Real-world examples & case studies of explanations in healthcare
- Representation of domain knowledge for the generation of automated explanations in healthcare
- Evaluation of explainable AI (Artificial Intelligence) approaches

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: August 12, 2021

Notification: August 28, 2021

Registration: September 10, 2021

Camera ready: September 10, 2021

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=HEALTHINFO+2021+Special>

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contact

Chairs

Laura Moss: laura.moss@glasgow.ac.uk

David Corsar: d.corsar1@rgu.ac.uk

Logistics: steve@iaia.org