Join us at ECAI

Context is central to AI in general. In terms of recent concerns, context is crucial for understanding causation, for personalization, for ethical AI and for contextual AI. Research on context is vital for developments within specific areas:

Machine Learning & Knowledge Representation: Mostly, context cannot be modelled a-priori but contextual information has to be inferred from data. Additionally, context features might change over time, necessitating ML approaches for dynamic adaptation of models and methods for reasoning with uncertainty.

Human-Centred AI: In Human-Computer Interaction, context is crucial for human-centred approaches to systems development. Because of its transdisciplinarity, MRC is ideally suited to build bridges between AI & HCI and to facilitate the exchange of knowledge & methods for human-centred approaches.

Ethical & Responsible AI: Context is core to ethical & responsible approaches to AI, as reasoning about contextual parameters is inherent in human interpretation of ethical questions. Explicit context models can also help mitigate effects of algorithmic and data bias.

Responsible Personalization: Context is central to enabling a collaborative partnership between humans and machines. But personalization brings risks to privacy, making context explicit helps to mitigate this.

Explainable AI: With a renewed interest in explainable systems, context is also increasingly important to identify user needs and system capabilities in providing explanations of system behaviour at runtime.

Autonomous Agents & Robotics: The concept of context is itself contextual and pertains to the acting agent. Context is particularly important for autonomous systems integrated in socio-technical environments.

Context is inherently an interdisciplinary topic that has clear relations to linguistics and semiotics, cognitive science and psychology, mathematics and philosophy as well as other areas such as sociology and anthropology. MRC can serve as a means for integrating models and findings from these different areas.

Agenda

If you attend virtually and have an accepted paper, we would like to ask you to prepare a video with your presentation upfront, which will be made available to all workshop participants. We will invite all of you to join an online community where we can discuss the individual presentations in different discussion threads asynchronously. We will also reserve time slots at the workshop for synchronous discussions.

Websites

More information and the paper submission system can be found on the workshop website at:

mrc.kriwi.de

See the ECAI 2020 conference website for information about the location and registration process:

ecai2020.eu

Join the mailing list for MRC by visiting:

www.listserv.dfn.de/sympa/info/mrc

Important Dates

Regular paper	see website
Late/breaking	Tue July 28
Late notific.	Tue August 11
MRC Workshop	Sat August 29

Eleventh International Workshop
Modelling and Reasoning in Context (MRC)

Human-Centric and Contextual Systems

Virtual Workshop at ECAI 2020
Saturday, August 29, 2020

Regular Deadline: See website
Late & Breaking: July 28, 2020

ECAI 2020 · Santiago de Compostela

|MRC 2020|
Modelling|Reasoning|Context   Santiago de Compostela|June

mrc.kriwi.de

Workshop Objectives

MRC aims to bring together researchers & practitioners from different communities, both industry & academia, to study, understand, and explore issues surrounding context and to share problems, techniques and solutions across a broad range of areas. The workshop covers different understandings of what context is, a variety of approaches to learn about context from data, and different approaches to modelling. MRC is concerned with varying mechanisms and techniques for reasoning with context, storage of contextual information, and methods for enabling integration of context and application knowledge.

MRC invites papers on all aspects of context, from theoretical approaches over modelling, reasoning, and learning to reports on applications. This year we focus on personalization, autonomy and privacy in relation to context. We explicitly invite contributions from other fields of study in order to further trans- and interdisciplinary approaches and to integrate discipline specific knowledge with AI research.

Areas of interest include, but are not limited to:

- Human-Centred approaches to context
- Context and explainability
- Context in ethical and responsible AI
- Collaboration & integration of AI in social contexts
- Context, personalization and privacy
- Context in conversational systems
- Context and autonomy
- Context and causation
- Machine learning of contextual parameters
- Generic and specific context models
- Retrieval of context and context information
- Explicit representations of context
- Representation of and reasoning with uncertainty
- Trans- and interdisciplinary issues of context
- Socio-technical issues
- Evaluation of contextualised applications
- Context awareness and context sensitivity

Title photo based on "The Cathedral of Santiago de Compostela" by Joe deSousa, flickr.com/photos/mustangjoe/48876399647

Submissions

Original papers should be prepared according to the ECAI formatting guidelines, and using the LaTeX Styles or Word template for ECAI 2020.

Long papers are allowed eight (8) pages. Short papers, not exceeding four (4) pages, may be submitted for short or poster presentation. Late and breaking papers which highlight current developments or characterise open challenges are allowed four (4) pages. For all paper types, pages containing only references and acknowledgements are not counted towards that limit.

Submissions must be original, and should not have been formally published or accepted for publication elsewhere. We also invite longer versions of papers published in short form elsewhere.

Three members of the program committee will review each submission. A review form will direct committee members to evaluate submissions for appropriateness, technical strength, originality, presentation, and overall evaluation, as well as recording the reviewer's confidence in the topic.

The proceedings of the workshop will be published electronically and made freely available. Depending on the nature of submissions, the proceedings will be published through a suitable channel such as the CEUR Workshop Proceedings. Authors of accepted papers might be invited to submit extended versions for inclusion in a special journal issue on contextualised systems, if justified by the quantity and quality of submissions.

The authors will be responsible for producing camera-ready copies of papers in PDF format, conforming to the formatting guidelines, for inclusion in the proceedings. At least one author of each accepted paper must attend the workshop to present the contribution. Be advised that every workshop participant has to register for MRC through the main ECAI conference (workshop-only registrations available).

Paper submission as PDF only via EasyChair at:

easychair.org/conferences/?conf=mrc2020

Chairs

Jörg Cassens
University of Hildesheim, Germany

Rebekah Wegener
University of Salzburg, Austria
and Audaxi, Sydney, Australia

Anders Kofod-Petersen
Alexandra Institute, Copenhagen, Denmark
and NTNU, Trondheim, Norway

Program Committee

- Juan Carlos Augusto
- Tobias Baur
- Tarek Richard Besold
- Ioannis Chatzigiannakis
- Henning Christiansen
- Sten Hanke
- Martin Christof Kindsmüller
- Christian Kohlschein
- Olya Kudina
- David Leake
- Amy Loutfi
- Ana Gabriela Maguitman
- Tobias Meisen
- Grzegorz J. Nalepa
- Stella Neumann
- Jeannie Marie Paterson
- Michaela Reisinger
- Myrthe L. Tielman
- Harko Verhagen
- M. Birna van Riemsdijk