

HumanE AI Net:

The HumanE AI Network

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scientific knowledge dissemination package***

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DOCUMENT INFO

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0.2 Document History

Revision		
Date	Lead Author(s)	Comments
12.09.2023	GK	Initial template
28.09.2023	MC	Adding content
28.09.2023	GK	Final edits, prettifying



TABLE OF CONTENTS

0.1 Authors	2
0.2 Document History	2
Table of Contents	3
Executive Summary	4
1. Introduction	4
2. ACAI 2021: The Advanced course on AI on Human Centered AI (October 2021)	4
3. Dagstuhl Perspectives Workshop 2262, Human-Centered Artificial Intelligence	5
4. International Artificial Intelligence Doctoral Academy	6



EXECUTIVE SUMMARY

This document is the written companion of the real Deliverable, which was the content of the events.

1. INTRODUCTION

The HumanE AI Net scientific knowledge dissemination package is composed of:

- Organisation of schools: ACAI 2021 (Berlin, Octobre 2021, D8.3), 6th Summer school on Computational Interaction (Saarbrücken, June 2022), creathon²² (Paris, July 2022, see D8.4)
- Organisation of the Dagstuhl Perspectives Workshop 2262, Human-Centered Artificial Intelligence (June 26 - Jul 01, 2002)
- Participation to the International Artificial Intelligence Doctoral Academy (AIDA) with the other Networks Networks of Excellence

2. ACAI 2021: THE ADVANCED COURSE ON AI ON HUMAN CENTERED AI (OCTOBER 2021)

The event was described in D8.3. As a follow-up of the school, the lecturers were asked to write chapters, which will be published in a Springer Book edited by Mohamed Chetouani, Virginia Dignum, Paul Lukowicz and Carles Sierra.

During 2022, the editors organised the review process in order to extend and improve the lectures.

The focus is Human-Centered Artificial Intelligence.

9.00 - 9.30	Registration											
9.30 - 10.00	Welcome and introduction: Loft am Satzfufer											
10.00 - 10.30	Mythical ethical principles for AI and how to operationalise them (Loft)	Deep Learning Methods for Multimodal Human Activity Recognition (3IT)	Social Artificial Intelligence (FDT)	Ethics and AI: an interdisciplinary approach (Hörsaal HH)	Machine Learning With Neural Networks (FDT)	social simulation for policy making (3IT)	Law for Computer Scientists (3IT)	Argumentation (FDT)	Operationalising AI Ethics: Conducting Socio-Technical Assessment (Hörsaal HH)	The Ethics and Metrics of "Successful" AI (Loft)	Learning and Reasoning with Logic Tensor Networks (FDT)	Writing Soft (3IT)
10.30 - 11.00										Introduction to intelligent Uta (3IT)	Student mentorship meetings: All meet in the Loft, some may then move to FDT	
11.30 - 12.00	Keynote - Rogers (Loft)											
12.00 - 12.30	Lunchbreak											
12.30 - 13.00	Lunchbreak											
13.00 - 13.30	Lunchbreak											
13.30 - 14.00	Lunchbreak											
14.00 - 14.30	Multimodal Perception and Interaction with Transformers (3IT)	Social Artificial Intelligence (FDT)	Learning Narrative Frameworks from Multimodal inputs (3IT)	Argumentation (Hörsaal HH)	Interactive Robot Learning (FDT)	Explainable Machine Learning for Trustworthy AI (FDT)	Cognitive Vision: On Deep Semantics for Explainable Visuospatial Computing (3IT)	Operationalising AI Ethics: Conducting Socio-Technical Assessment (Hörsaal HH)	HumanaAI-Net Micro-project presentations Loft			
14.30 - 15.00									Keynote - Shneiderman (16-16.45) - Loft			
15.00 - 15.30	Why and how should we explain in AI? (Loft)								Keynote - Bengio (16.45-17.30) - Loft			
16.30 - 17.00									Keynote - Crawford			
17.00 - 17.30	EURAI dissertation award											
17.30 - 18.00	Panel - Bangio & Shneiderman on HAI - Loft											
18.00 - 18.30	Student posters w/ dinner and drinks: Loft											
18.30 - 19.00												
19.00 - 19.30	ACA2021 Closing reception with finger food and drinks Loft											
19.30 - 20.00												



3. DAGSTUHL PERSPECTIVES WORKSHOP 2262, HUMAN-CENTERED ARTIFICIAL INTELLIGENCE

This workshop brought together 22 participants with a diverse background from AI, Robotics, HCI, Ubiquitous Computing, Business and Sociology, from across Europe and North America laid the groundwork for a manifesto on Hybrid Human-centered AI systems.

Informed by currently ongoing large initiatives such as the EU-funded Humane AI Net, the Dutch Hybrid Intelligence Center, the Danish Centre for Hybrid Intelligence, and OECD AI policy framework, four pillars of the manifesto emerged: (a) Collaboration and Cooperation, (b) Control & Adaptivity, (c) Transparency & Explainability, and (d) Societal dimensions. For each of these pillars, the workshop resulted in (i) key terminology, (ii) key research questions, (iii) metrics and methodologies, and (iv) benchmarks and challenges.

Keywords:

- Artificial Intelligence
- AI and Society
- Ethical AI
- Human-centered AI
- Human-Centered Design
- Human-Computer Interaction
- Explainable Machine Learning
- Robotics

Organisers:

- [Virginia Dignum](#) (University of Umeå, SE)
- [Wendy E. Mackay](#) (INRIA Saclay - Orsay, FR)
- [John Shawe-Taylor](#) (University College London, GB)
- [Frank van Harmelen](#) (VU University Amsterdam, NL)

Report:

[Wendy E. Mackay, John Shawe-Taylor, and Frank van Harmelen. Human-Centered Artificial Intelligence \(Dagstuhl Seminar 22262\). In Dagstuhl Reports, Volume 12, Issue 6, 112-117, Schloss Dagstuhl - Leibniz-Zentrum für Informatik. January 19, 2023](#)



4. INTERNATIONAL ARTIFICIAL INTELLIGENCE DOCTORAL ACADEMY

As the other Networks of Excellence, HumanE AI Net is active in AIDA: management board (Mohamed Chetouani), AIDA Committees: AI Curriculum, AI Excellence Lecture Series.

The consortium participates to AIDA activities:

- AI Excellence Lecturers
- Participation of students and researchers to the AI Excellence Lectures
- Sharing lectures through the AIDA Educational Resource Repository

