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Fair Medicine and Artificial Intelligence: Chances, Challenges, Consequences

3 – 5 March 2021

Center for Gender and Diversity Research (ZGD),
Eberhard Karls Universität Tübingen

Programme

*12:30   Welcome and Introduction
                Regina Ammicht-Quinn and Renate Baumgartner

13:00–14:30   **PANEL 1: SOCIOTECHNICAL PERSPECTIVES 1 – ANALYSIS**

                Chair: Silja Samerski

                N. Elida Detfurth (York University, Canada)
                **Categorization and Classification in AI Data-driven Applications
                for Dementia Care: Results from a Thematic Analysis and a
                Neuroanthropology Approach**

                Ann Kristin Kühnen (Technische Universität Dresden, Germany)
                **Black Bodies at Risk. A Sociotechnical Analysis of an
                Algorithmic System for Health Risk Prediction**

                Corinna Bath (Technische Universität Braunschweig) / Silja
                Samerski (Hochschule Emden Leer, Germany)
                **Sociotechnical Practices of Objectivation:
                A Framework for Examining AI-based Health Apps for Diagnosis**

14:30–14:50   Short Break

14:50–16:20   **PANEL 2: SOCIOTECHNICAL PERSPECTIVES 2 – IMAGINING THE FUTURE**

                Chair: Paul Martin

                Karolina Napiwodzka / Kinga Ciereszko / Ewa Nowak (Adam
                Mickiewicz University, Poznań, Poland)
                **Are Human Presence and Conscience Necessary in Pharmacy?
                A Thought Experiment**

Paul Martin / Jin Ding (University of Sheffield, UK)
Fixing the Broken Model: AI, Rare Disease Patient Organisations and the Repurposing of Orphan Drugs

Waltraud Ernst (Johannes Kepler Universität, Linz, Austria)
Questioning Standards of Medical Research with AI?

16:20–16:40   Short Break

16:40–18:10   KEYNOTE, Q&A

Corinna Bath (Technische Universität Braunschweig, Germany)
How to Design Socially Just ICT and AI Applications in Medicine? Entangling Feminist STS and Technology Design

Moderation: Marion Müller

THURSDAY, 04 MARCH 2021

12:45   Welcome

13:00–14:30   PANEL 3: HEALTHCARE-RELATED APPLICATIONS AND GENDER

Chair: Eduard Fosch-Villaronga

Cordula Kropp / Karolin Tampe-Mai (Universität Stuttgart, Germany)
Smart Healthcare Systems and Social In/Justice

Sara Morais dos Santos Bruss (Technische Universität Dresden, Germany)
„Surrogate"-Robotics and the Care-Revolution

Eduard Fosch-Villaronga / Tess Verhoef / Hadassah Drukarch / Pranav Khanna (Leiden University, Netherlands)
Diversity for AI in Medicine: Informing the Governance of AI for Medicine with Knowledge on Gender Biases

14:30–14:50   Short Break

14:50–16:20   **PANEL 4: EXAMPLES BETWEEN THE GLOBAL NORTH AND THE GLOBAL SOUTH – POSTCOLONIAL PERSPECTIVES**

Chair: Sara Morais dos Santos Bruss

Katerina Vlantoni / Aristotle Tympas / Eleni Chatzimichali / Kornilia-Maria Papanastasiou-Toli (National and Kapodistrian University of Athens, Greece)
Expectations Concerning the AI-Medicine Integration in the European South: The Case of Greece

Somto Mbelu (Erasmus University Rotterdam, The Netherlands)
Ethical Concerns in Designing AI-Enabled, Health Insurance Platforms in Nigeria

Astha Jaiswal (Central University of Gujarat, Gandhinagar, India)
Artificial Intelligence in India and Responsible Innovation: A Case Study of Telemedicine in India

Tereza Hendl / Tiara Roxanne (Ludwig-Maximilians-Universität, München, Germany)
Digital Surveillance in a Pandemic-response: What Bioethics Ought to Learn from Indigenous Perspectives

16:20–16.40   Short Break

16:40–17:40   Networking event (on Wonder)

FRIDAY, 05 MARCH 2021

12:45	Welcome

13:00–14:30 **PANEL 5: DISCOURSES AND KNOWLEDGE PRODUCTION**

Chair: Robin Williams

Kevin Wiggert (Technische Universität Berlin, Germany)
Data-driven Clinical Decision Support Systems

Vassilis Galanos / Robin Williams (The University of Edinburgh, UK)
Towards a Responsible Framework. Machine Learning in Radiology: Balancing Between Accuracy and Instability and Learning from Past Pitfalls

Renate Baumgartner (Eberhard Karls Universität Tübingen, Germany)
Gordian Knots in Health Equity Through AI

14:30–14:50 Short Break

14:50–16.20 **PANEL 6: ETHICAL PERSPECTIVES**

Chair: Christian Lenk

Christian Lenk (Universität Ulm, Germany)
Artificial Intelligence for the Adjustment of the Need Principle? Considerations Regarding the Inequality of Health Care in Germany.

Paola Lopez (Universität Wien, Austria)

Bias Does Not Equal Bias. A Sociotechnical Typology of Bias in Data-based Algorithmic Systems

Thomas Grote (Eberhard Karls Universität Tübingen, Germany) / Geoff Keeling (Stanford University)
On Algorithmic Fairness in Medical Practice

Thomas Gremsl / David Schneeberger (University of Graz, Austria)
Interdisciplinary Comments on the Proposed European Framework of Ethical Aspects of Artificial Intelligence, Robotics and Related Technologies

16:20–16:40   Short Break

16:40–18.10   KEYNOTE, Q&A
Kadija Ferryman (New York University, Tandon School of Engineering, USA)
Health Equity in Precision Medicine: Ethics and Policy Approaches

Moderation: Regina Ammicht-Quinn

18:10- 18:40   FINAL DISCUSSION "LESSONS LEARNED"

Moderation: Regina Ammicht-Quinn

*all times given in CET