

## „Historical and Sociological Perspectives on the digital Transformation“

09:00 – 09:15      Ulf Hashagen (DM)      Opening

### 1. Histories of the digital Transformation and the Automation of Vision

09:15 – 09:45      Dinah Pfau (DM)      “ArtViWo” – Vision between Physiology and Communications Engineering

09:45 – 10:15      Aaron Gluck-Thaler (Harvard)      Learning from Particulars: Mid-Twentieth Century Data Processing Ambitions at the National Security Agency

10:15 – 10:45 Coffee Break

10:45 – 11:15      Rudi Seising (DM)      Perception and Perceptron – Pattern Recognition in the 1950s

11:15 – 11:45      Sebastian Kawanami-Breu (HU B)      Retinas and Receivers: Modeling Vision at the NHK Labs, 1960-1980

11:45 – 12:00 Coffee Break

### 2. Computing Landscapes: Environmental History of the digital Transformation

12:00 – 12:30      Tjark Nentwig (TU B)      Computing Landscapes - Sketching an Information History of the Environment

12:30 – 13:00      Kathrin Tschida (TU B)      Computerlandschaften: A Student-led Project on the Environmental History of Computing

13:00 – 14:15 Lunch

### 3. Sociological Perspectives the digital Transformation and the Automation of Vision

14:15 – 14:45      Judith Neumer und Michael Heinlein (ISF)      “ArtViWo” – The Automation of the Clinical Gaze? Artificial Intelligence in the Visual Practice of Colonoscopy

14:45 – 15:15      Assia Wirth (CREST)      Searching for facial recognition: uncovering the making of sensitive algorithmic technologies.

15:15 – 15:45 Coffee Break

15:45 – 16:15      Valentin Goujon (Sciences Po)      Scalability, temporality and (mis)alignment: governing Artificial (General) Intelligence through benchmark datasets

16:15 – 16:45      Liliia Zemnukhova (DM)      Air in the Room: How Quality Assurance Moves Digitalization

### 4. Artificial Intelligence, Vision and digital Transformation: Summary and Outlook

16:45 – 17:15      Dinah Pfau (DM)      Summary, Outlook and Discussion

18:00 Dinner