

Visual Reasoning – Visual Arguments

Visual representations (e.g. diagrams, computer graphics, drawings) are broadly used in the sciences and beyond. But how exactly do they fulfil their tasks in processes of knowledge production and distribution? This question will be tackled by international experts from different academic disciplines at the workshop “Visual Reasoning – Visual Arguments”.

Their contributions will bridge the gap between theory and practice by presenting insights from selected sciences and the humanities (history, medicine, physics), that is, disciplines that essentially incorporate visual reasoning practices into their research activities.

Beyond discussing cases of application, philosophers and media scientists will reflect upon questions concerning the epistemic and persuasive potential of visual representations in the sciences and in the society more broadly.

Can we reason with our eyes only? Do scientists think visually? Can images transmit knowledge? How do visual representations influence public opinion in the politics and beyond?

These topics will be approached in five thematic units:

- 1) Visual reasoning – vision-based inferences
- 2) Visual arguments – truth and non-propositional representations in the sciences
- 3) Visual arguments in public opinion building – ethical and historical perspectives
- 4) Visual reasoning in the life sciences
- 5) Visual reasoning – the role of diagrams in physics

Scientific Organizers:

PD Dr. Dr. Martin Langanke
(University of Greifswald)

Dr. Nicola Möbner
(University of Münster)

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Registration:

Please register online at www.wiko-greifswald.de.

Venue:

Alfried Krupp Wissenschaftskolleg Greifswald

DFG Deutsche
Forschungsgemeinschaft

The international symposium is organized by the Department of Systematic Theology at the Ernst-Moritz-Arndt-Universität Greifswald, the Department of Philosophy at the Westfälische Wilhelms-Universität Münster and the Alfried Krupp Wissenschaftskolleg Greifswald. The event is funded by the Deutsche Forschungsgemeinschaft (DFG) as well as by the Alfried Krupp von Bohlen und Halbach-Stiftung, Essen. The Alfried Krupp Wissenschaftskolleg is an academically independent institution sponsored by the Stiftung Alfried Krupp Kolleg Greifswald.

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Seit 1456



Visual Reasoning – Visual Arguments

International Symposium

June 1–3, 2017

Alfried Krupp Wissenschaftskolleg
Greifswald

Thursday, June 1, 2017

Visual Reasoning - Vision-based Inferences

14.00 – 14.15

Welcome and Introduction

PD Dr. Dr. Martin Langanke (University of Greifswald), Dr. Nicola Mößner (University of Münster)

14.15 – 15.00

Visualizing Ignorance

Professor Dr. Marcel Boumans (University of Utrecht)

15.00 – 15.45

Drawing Inferences: Image-based Reasoning

Dr. Sabine Ammon (Technical University of Darmstadt)

15.45 – 16.00

Coffee Break

16.00 – 16.45

Images as Cognitive Artifacts

Professor em. Dr. Patrick Maynard (University of Western Ontario)

16.45 – 18.00

Break

18.00 – 19.30

Public lecture

Scientific Images: Aesthetics, Rhetoric, and Inference

Professor Dr. Laura Perini (Pomona College, Claremont)
Chair: Dr. Nicola Mößner

Friday, June 2, 2017

Visual Arguments – Truth and Non-Propositional Representations in the Sciences

9.15 – 10.00

Non-Propositional Content in Visual Arguments

Dr. Nicola Mößner (University of Münster)

10.00 – 10.45

Deliberative Pictures. The Role of Imagery in Forming Public Opinion

Professor Dr. Jens Elmelund Kjeldsen (University of Bergen)

10.45 – 11.00

Coffee Break

Visual Arguments in Public Opinion Building – Ethical and Historical Perspectives

11.00 – 11.45

Visual Arguments and Epistemic Autonomy: What Can we Learn from Advertising Ethics?

Professor Dr. Micha H. Werner (University of Greifswald)

11.45 – 13.00

Lunch

13.00 – 13.45

Visualizing the Rebel: The Image of Imam Shamil' in Soviet and Post-Soviet Remembrance Culture

Dr. Lars Karl (University of Leipzig)

13.45 – 14.30

"The Emperor's New Clothes:" Reconstructing Visualized Power in Ancient Near Eastern Iconography

Professor Dr. Stefan Beyerle (University of Greifswald)

14.30 – 14.45

Coffee Break

Visual Reasoning in the Life Sciences

14.45 – 15.30

Visual Representation of Super-individual Entities in the Life Sciences

PD Dr. Dr. Martin Langanke (University of Greifswald)

15.30 – 16.15

"We Are But One Node in the Web of Life." Worldview Arguments in Environmental Ethics

Philipp P. Thapa (University of Greifswald)

16.15 – 16.30

Break

16.30 – 18.00

Public lecture

Diagrammatic Reasoning in Image-Guided Neurosurgery

Professor Dr. Aud Sissel Hoel (University of Trondheim)

Chair: PD Dr. Dr. Martin Langanke

Saturday, June 3, 2017

Visual Reasoning – the Role of Diagrams in Physics

9.15 – 10.00

From Feynman Diagrams to Event Displays – Visualization in Particle Physics

Professor Dr. Michael Krämer (RWTH Aachen University)

10.00 – 10.45

Interpreting Feynman Diagrams as Visual Models

Dr. Adrian Wüthrich (Technical University of Berlin)

10.45 – 11.00

Coffee Break

11.00 – 11.45

Visualization as a Tool for Understanding in Modern Physics

Professor Dr. Henk W. de Regt (VU University of Amsterdam)

11.45 – 12.00

Concluding Remarks

PD Dr. Dr. Martin Langanke (University of Greifswald),
Dr. Nicola Mößner (University of Münster)

12.00 – 13.00

Snack / Departure