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Philosophy of Science meets Machine Learning

Conference for Junior Scholars

November 9th-12th, 2021

Venue: Alte Aula und Konferenzsaal
des Max Planck-Instituts für
Intelligente Systeme Tübingen

Starting Time: 13:00 Uhr

Organisation: Thilo Hagendorff,
Thomas Grote, Eric Raidl (*Ethics
and Philosophy Lab* des [Exzellenzclusters "Maschinelles Lernen für die Wissenschaft"](https://uni-tuebingen.de/forschung/forschungsschwerpunkte/exzellenzcluster-maschinelles-lernen/home/)
(<https://uni-tuebingen.de/forschung/forschungsschwerpunkte/exzellenzcluster-maschinelles-lernen/home/>),
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Machine learning (ML) does not only transform businesses and the social sphere, it also fundamentally transforms science and scientific practice. The workshop focuses on that latter issue. It aims to discuss **whether** and **how ML transforms the process of scientific inquiry**. For this, it sets out to analyse the field of ML through the lenses of **philosophy of science, epistemology, ethics** and cognate fields such as **sociology of science**.

Poster

Day 1: November 9th, Alte Aula

13:00	Registration & Coffee
13:50	Short Introduction
14:00 -14:50	Gregory Wheeler – “Discounting Desirable Gamble
15:00 -15:40	Vlasta Sikimic – “Algorithmic grant review: benefits
15:50-16:40	Emily Sullivan – “Stopping the Opacity Regress”
16:40-17:00	Coffee & Snacks
17:00-17:50	Bob Williamson – “(Un)stable facts, and (missing) c
	Evening activities /Dinner

Day 2: November 10th, Alte Aula

9:00-9:50	Carlos Zednik – “The Exploratory Role of Explained
10:00-10:40	Moritz Renftle et al. – “Evaluating the Effect of XAI
10:40-11:20	Timo Freiesleben – “To Explain and to Predict - Ex
11:20-11:40	Coffee & Snacks
	Carina Prunkl – “Governance from within: opportu

11:40-12:30	community”
12:30-14:00	Extended lunch break
14:00-14:50	Jon Williamson – “Evidential Pluralism and Explain
15:00-15:40	Oliver Buchholz – “Towards a Means-End Account
15:40-16:00	Break
16:00-16:40	Koray Karaca – “Inductive Risk and Values in Macr
16:40-17:30	Lena Kästner – “Grasping Psychopathology: On C
	Informal discussion / Dinner

Day 3: November, 11th, MPI-IS

9:30-10:10	Benedikt Hoeltgen – “Causal Variable Selection Th
10:10-10:50	Daniela Schuster – “Suspension of Judgment and
10:50-11:20	Coffee & Snacks
11:20-12:10	Anouk Barberousse – “Can the Concept of Scient Learning?”
12:10-14:00	Extended lunch break

14:00-14:40	Giorgio Gnecco et al. – “Simple Models in Complex Theory” (Online)
14:40-15:20	Atoosa Kasirzadeh – “Kinds of Explanation in Machine Learning”
15:20-15:50	Coffee Break
15:50-16:30	Tim Rätz – “Understanding Machine Learning for Epistemology”
16:30- 17:20	Alex Broadbent – “Predictive Investigation and Decision Making”
	Informal discussion / Dinner

Day 4: November 12th, MPI-IS

9:30-10:10	Mario Günther – “How to Attribute Beliefs to AI Systems”
10:10-10:50	Dilectiss Liu – “Epistemic Opacity Does Not Undermine Model Trust”
11:00-11:50	Kate Vredenburgh – “Against Rational Explanation”
11:50-12:20	Coffee Break
12:20-13:00	Roundtable Farewell

Termin: 09.11.2021 - 13:00

Kalender:

iCal Download (https://www.hadw-bw.de/sites/default/files/icsfiles/5d870d36d6ad1b3d36bd9c77ea3c3e59_event.ics)