# CEPE/IACAP Joint Conference 2021: The Philosophy and Ethics of Artificial Intelligence July 5-9, 2021

## **Conference Program**

(Version: July 9, 2021)

All times are local Hamburg, Germany times (CEST).







#Cepelacap2021 #AIEthics #AIGovernance #AIPhilosophy

http://uhh.de/inf-cepe-iacap2021 | cepe-iacap2021@informatik.uni-hamburg.de

## DAY 1 – Monday 5<sup>th</sup> July

1:15-2pm (CEST)	Welcome Address (Zoom: Webinar Room)  Keith Miller (President of INSEIT)  Steve McKinlay (Executive Director IACAP)			
		Best Paper Awards  Judith Simon (Local Host, UHH)		
2:15-3:45pm	Session 1: Risks of Al	Session 2: Moral Machines	Session 3: Philosophy of Computing and ML	
(CEST)	(Zoom: Room 1)	(Zoom: Room 2)	(Zoom: Room 3)	
	Moderation + Tech Support: Catharina Rudschies	Moderation + Tech Support: Jason Branford	Moderation: Luis Estrada-González Tech Support: Gernot Rieder	
	Assessing the Ethical Risks of Al	Developing Moral Machines: Hybrid		
	Joris Krijger (Erasmus School of Philosophy)	Implementation of Ethical Theories	Machine Learning as Model & as Metaphor	
		Beate Sohrmann (FernUniversität Hagen)	Mel Andrews (University of Cincinnati)	
	Orthogonality and Existential Risk from AI: Can			
	We Have it both Ways?	A Hybrid Model for Moral Als	What to Make of Functions in Computer Science?	
	Vincent C. Müller (TU Eindhoven)	Fei Song (Nazarbayev University)	A Case Study on the Basis of Computer Programs	
	The Chama Talling managed the Une of Alighba Fabiand	Shing HF Yeung (The University of Hong Kong)	Nick Wiggershaus (Lille University)	
	The Story Telling around the Use of AI: the Ethical Dimensions that are considered in the	Presentation cancelled, session only 60 minutes	A Falsificationist Account of Artificial Neural	
	Governmental Official Discourses	long.	Networks	
	Anca Georgiana Rusu (Dauphine Paris)	iong.	Oliver Buchholz (University of Tübingen)	
	Myriam Merad (Dauphine Paris)		Oliver Buchinoiz (Olliversity of Tubiligen)	
		30-Minute Break		
4:15-5:45pm	Session 4: Ethics and Automated Warfare	Session 5: Synthetic Minds and Consciousness	Panel 1: Towards Gender Just Al	
(CEST)	(Zoom: Room 1)	(Zoom: Room 2)	(Zoom: Room 3)	
	Moderation: Ava Thomas Wright	Moderation: Vincent C. Müller	Tech Support: Gernot Rieder	
	Tech Support: Catharina Rudschies	Tech Support: Jason Branford	PANELISTS	
	War in the Age of Algorithms: Morality, Law, and	An exploration on the emergence of Machine		
	Autonomous Weapons Systems	Consciousness, and the Risk of Robocentrism	Galit Wellner (Tel Aviv University)	
	Linda Eggert (University of Oxford; Harvard U.)	Matthew Davis (Uppsala University)	Corinna Bath (TU Braunschweig)	
	•	(11)	Vivek Nallur (University College Dublin)	

Autonomous Weapon Systems and the Claim- Rights of Innocents on the Battlefield Hunter Cantrell (United States Military Academy)  International Humanitarian Law and the Use of Algorithms for Military Decision-Making Jovana Davidovic (University of Iowa)  Synthetic Minds and Mental Disorders Roman Krzanowski (The Pontifical University of John Paul II) Jacob Krzanowski (The South London and Maudsley (SLaM) NHS Foundation Trust)  Representation and Machine Agency Beba Cibralic (Georgetown University)  James Mattingly (Georgetown University)  30-Minute Break				
Hunter Cantrell (United States Military Academy)  International Humanitarian Law and the Use of Algorithms for Military Decision-Making  Jovana Davidovic (University of Iowa)  Representation and Machine Agency  Beba Cibralic (Georgetown University)  John Paul II)  Jacob Krzanowski (The South London and Maudsley (SLaM) NHS Foundation Trust)  Representation and Machine Agency  Beba Cibralic (Georgetown University)  John Paul II)  Jacob Krzanowski (The South London and Maudsley (SLaM) NHS Foundation Trust)				
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30-Minute Break				
Colt 7/AEnm				
6:15-7:45pm Keynote I				
(CEST) (Zoom: Webinar Room)	(Zoom: Webinar Room)			
Sabina Leonelli (University of Exeter)				
Title of Talk: Pandemic Data Science: What Have We Learnt?	Title of Talk: Pandemic Data Science: What Have We Learnt?			
Moderation: Judith Simon				
8-9pm Social Gathering				
(CEST) (Zoom: Main Hall)				
End of Day 1	End of Day 1			

#### DAY 2 – Tuesday 6<sup>th</sup> July

11am-12pm (CEST)	Welcome Coffee (Zoom: Main Hall)				
12-1:30pm (CEST)	Session 6: Algorithmic Discrimination (Zoom: Room 1) Moderation + Tech Support: Gernot Rieder  All Variables are not Created Equal Catherine Greene (London School of Economics)  Informed Consent and Algorithmic Discrimination - Is Giving Away Your Data the New Vulnerable? Hauke Behrendt (University of Stuttgart) Wulf Loh (University of Tübingen)  Perception vs. Reality of Neutral Al Andrea Weber and Tanja Henking (Hochschule für angewandte Wissenschaften Würzburg- Schweinfurt)	Session 7: Ethics of AI Decisions (Zoom: Room 2) Moderation: Wessel Reijers Tech Support: Jason Branford  When AI Makes Rational Choice: A Challenge to the Possibility of a Universal Ethical Domain Ziming Song (Sun Yat-sen University)  Ethical Consequences of the Computer System's Intentionality in Machine Learning Dmytro Mykhailov (Nanjing Normal University)  Moral Responsibility and Explainable AI Carlos Zednik (Eindhoven University of Technology) Christoph Sebastian Widdau (Otto-von-Guericke-	Session 8: Digital Life and Ethics (Zoom: Room 3) Moderation: Katleen Gabriels Tech Support: Mattis Jacobs  Artificial Artificial Intelligence - The Hidden Microwork in AI Charlotte Bilsing (Universität Hamburg)  Subjectivity and Intended Gaps of Information within Digital Client Records in Social Work Diana Schneider (FH Bielefeld University of Applied Sciences)  Will we exploit benevolent AI? Jurgis Karpus, Adrian Krüger, Julia Tovar Verba, Bahador Bahrami, Ophelia Deroy (LMU Munich)		
2:15-3:45pm (CEST)	Session 9: Privacy I (Zoom: Room 1) Moderation + Tech Support: Laura Fichtner  Should we Conceptualize Privacy as Value? Björn Lundgren (Umeå University; Institute for Futures Studies; Stockholm University)	45-Minute Break  Session 10: Artificial Moral Agents (Zoom: Room 2) Moderation: Herman T. Tavani Tech Support: Jason Branford  Should We Consider a Robot to be a (Moral) Agent? Marcus Düwell (Minstroom Research BV) Jan Bergstra (Universiteit van Amsterdam)	Session 11: Human Life and Trust (Zoom: Room 3) Moderation: Glenda Hannibal Tech Support: Mattis Jacobs  Trust in IoT Systems in Among Users with Disabilities: A Framework for Inclusive and Trustworthy Development Dylan E. Wittkower (Old Dominion University) Stephanie Blackmon (W&M School of Education) Krzysztof Rechowicz (Old Dominion University)		

	Others' Information and My Privacy: A New Ethical Dimension of Conceptualization Yuanye Ma (University of North Carolina at Chapel Hill)  Statistics Do Not Disclose Personal Information or Violate Privacy Owen King (unaffiliated)	There Is Still At Least One Reason for Making Artificial Moral Agents Soraj Hongladarom (Chulalongkorn University)  AI Personhood Mapped Via a Continuum Karl Reimer (University of Zurich)	Hanna Herdegen (Virginia Tech)  A Bayesian approach to trust: metacognition, confidence and autonomy Ioan Muntean (UT Rio Grande Valley)  Ethical Reflections on Handling Digital Remains: Computing Professionals Picking Up Bones Frances Grodzinsky (Sacred Heart University) Keith Miller (University of Missouri - St. Louis) Marty Wolf (Bemidji State University)
		30-Minute Break	
4:15-5:45pm (CEST)	Session 12: Privacy II (Zoom: Room 1) Moderation: Kai Kimpaa Tech Support: Laura Fichtner  A Value-Centered Exploration of Data Privacy and Personalized Privacy Assistants Sarah E. Carter (National University of Ireland – Galway (NUIG))  Data Privacy: Stakeholders Conflicts in Medical IoT Benny Sand, Yotam Lurie (Ben-Gurion University) Shlomo Mark (Shamoon College of Engineering)	Session 13: Nature & Ethics of Autonomous Systems (Zoom: Room 2) Moderation: Keith Miller Tech Support: Jason Branford  Extended and Autonomous Agency - Capacity, Control and Coherence Kalle Grill (Umeå University)  The Deontic Logic of East-Asian Moral Cognition, for Robots Selmer Bringsjord, Naveen Sundar G., Michael Giancola (Rensselaer Polytechnic Institute)	Panel 2: Exploring the Possibility and Ethics of Al Paternalism in Health Apps (Zoom: Room 3) Tech Support: Mattis Jacobs  PANELISTS  Michael Kühler (Karlsruhe Institute of Technology) Katja Stoppenbrink (Universität Münster) Lucie White (Leibniz Universität Hannover)
	Rethinking Data Infrastructure and its Ethical Implications in the Face of Automated Content Generation.  Maria Joseph Israel, Ahmed Amer (Santa Clara University)	Rule-Based Robots: Why Autonomous Machines Can and Must be Governed by Rules of Right Ava Thomas Wright (California Polytechnic State University San Luis Obispo)	
		30-Minute Break	

6:15-7:45pm (CEST)	Keynote II (Zoom: Webinar Room)
	Linnet Taylor (Tilburg University)
	Title of Talk: Responsibility and Reality in Computing Sciences
	Moderation: Gernot Rieder
8-9pm (CEST)	Social Gathering / Mentoring Program (Zoom: Main Hall / Mentoring Room)
	End of Day 2

### DAY 3 – Wednesday 7<sup>th</sup> July

11am-12pm (CEST)	Welcome Coffee / Mentoring Program (Zoom: Main Hall / Mentoring Room)				
12-1:30pm (CEST)	Session 14: AI, Values, and Design (Zoom: Room 1) Moderation + Tech Support: Mattis Jacobs  An Ethics by Design Approach for Artificial Intelligence Philip Brey (University of Twente) Brandt Dainow (Ayni Ltd)  AI Alignment and the Complex Structure of Human Values Patrick Butlin (King's College London)  Strictly Human: Limitations of System Autonomy and the Design of Autonomous Systems Sadjad Soltanzadeh (Asser Institute, University of Amsterdam) Christine Boshuijzen van Burken (University of New South Wales)	Session 15: Issues of Facial & Emotion Analysis	Session 16: Human-Machine Relations I (Zoom: Room 3) Moderation: Sven Nyholm Tech Support: Laura Fichtner  On the Limits of Safe Moral Enhancement through AI Mentors Katleen Gabriels (Maastricht University) Richard Volkman (Southern Connecticut State University)  When Does Enhancement Become Restriction? The Case for Contestable Intelligent Space Sage Cammers-Goodwin (University of Twente)  Stoic Philosophy and Technology: Who is in Control? Edward Spence (University of Sydney)		
		45-Minute Break			
2:15-3:45pm (CEST)	Session 17: Novel Practices in Design and Regulation of AI (Zoom: Room 1) Moderation: Jason Borenstein Tech Support: Mattis Jacobs No Algorithmization without Representation: Sandbox for Regulatory Experiments	Session 18: Al and Regulation (Zoom: Room 2) Moderation: Georgios Yannopoulos Tech Support: Catharina Rudschies  Philosophical Foundations of Al Regulation Anuj Puri (University of St. Andrews)	Session 19: Human-Machine Relations II (Zoom: Room 3) Moderation: Alexis Elder Tech Support: Gernot Rieder		

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	Denisa Reshef Kera (University of Salamanca,	Why AI Is no Threat to Democracy. But to the Rule	What in the World? The Site of the Ethical in
	Tel Aviv University)	of Law	Human-Al Relations
	František Kalvas (University of West Bohemia)	Sebastian Rosengrün (CODE Berlin)	Jesse Josua Benjamin (University of Twente)
	Interfaces that Make Us Think. Conceptualising	Autonomous Driving and Public Reason: A Rawlsian	On the Moral Treatment of Social Robots:
	Online Critical Thinking as Designed Interaction	Approach	Towards a Hybrid Approach of Moral
	Lavinia Marin (TU Delft)	Michael Schmidt and Claudia Brändle (Karlsruhe	Consideration
		Institute of Technology)	Kęstutis Mosakas (Vytauto Magnus University)
	In-Between the Lines and Pixels: Cartography's		
	Transition from Tool of the State to		Can high-stake decisions be delegated to a
	Humanitarian Mapping of Deprived Urban		machine? (A rejoinder to Scott Robbins)
	Areas		Paul de Laat (University of Groningen)
	Isaac Oluoch (University of Twente)		,
		30-Minute Break	
4:15-5:45pm	Session 20: Governance of Al	Session 21: Fairness and Justice in Al	Panel 3: Dissecting Digital Complexity to Inform
(CEST)	(Zoom: Room 1)	(Zoom: Room 2)	Policy Choices in the Shaping of
	Moderation: Diane Michelfelder	Moderation: Maria Bottis	COVID-19 Digital Infrastructure
	Tech Support: Mattis Jacobs	Tech Support: Catharina Rudschies	(Zoom: Room 3)
			Tech Suppport: Laura Fichtner
	Governing AI and Society: Worker, Expert, and	Looking for justice in fairness. Filling the Normative	
	Policy Engagements with Artificial	Gaps in the Regulatory Discussion of Algorithmic	PANELISTS
	Intelligence/Automation at the Port of Los	Decision-making Systems	
	Angeles	Jascha Bareis and Anja Folberth (Karlsruher	Tilo Böhmann (Universität Hamburg)
	Taylor Cruz, Austin Chen, Emily Moore, Jaewoo	Institute for Technology)	Niva Koren-Elkin (Tel Aviv University)
	Park, Andrea Gordillo (California State		Gernot Rieder (Universität Hamburg)
	University, Fullerton)	AI in Justice	Wolfgang Schulz (Universität Hamburg/Leibniz-
		Ryvenna Altman and Ahmed Amer (Santa Clara	Institut für Medienforschung Hans-Bredow-
	Ethical concerns in India's AI policy	University)	Institut)
	Pranesh Bhargava, Suchismita Satpathy,		
	Biswanath Dash (BITS Pilani Hyderabad)	A Philosophical Perspective on Outcome and	
		Procedural Fairness Criteria for Machine Learning	
	3 <sup>rd</sup> paper moved to session 29	and the Need for Dynamic Modelling	
		Peter Remmers (TU Berlin)	
		Pola Schwöbel (Technical University of Denmark)	

	30-Minute Break
6:15-7:45pm	Keynote III
(CEST)	(Zoom: Webinar Room)
	Winner of the 2021 Covey Award of IACAP
	Helen Nissenbaum (Cornell Tech)
	Title of Talk: Contextual Integrity: Theory and a Few Applications
	Laudation Steve McKinlay
	Moderation: Judith Simon
8-9pm	Social Gathering
(CEST)	(Zoom: Main Hall)
	End of Day 3

# DAY 4 – Thursday 8<sup>th</sup> July

11am-12pm (CEST)	Welcome Coffee (Zoom: Main Hall)			
12-1:30pm (CEST)	Session 22: Ethics of AI Ethics (Zoom: Room 1) Moderation: Wessel Reijers Tech Support: Judith Simon  Practical and Moral Challenges for the Project of Formal Ethics Christian Herzog (University of Lübeck)  It Does Not Work but It Still Is Dangerous: Evading the Double Bind of AI Ethics Tobias Matzner (Paderborn University)  Experimental Machine Ethics and the Problem of Entrenchment Christoph Merdes (Friedrich-Alexander-Universität Erlangen-Nürnberg)		Session 23: Al and Medical Practices I (Zoom: Room 2) Moderation + Tech Support: Ingrid Schneider  Before Machine Learning in Medicine: What do We Mean by Medical Expertise?  Jojanneke Drogt, Anneliee Bredenoord, Karin Jongsma, Megan Milota (UMC Utrecht/Utrecht University)	
			Shoko Vos (Radboud MC) Sally Wyatt, Flora Lysen (Maastricht University)  Luke, I'm NOT Your Father: Beyond Technological Paternalism, towards Mutual Cooperation between Patients, Medical Staff and AI Cristina Voinea (Bucharest University of Economic Studies) Constantin Vica, Alexandru Dragomir (University of Bucharest)  Paper withdrawn, session only 60 minutes long.	
	Session 24: Data, AI, and Responsibility I (Zoom: Room 1) Moderation: Donald Gotterbarn Tech Support: Judith Simon  Can 'Taking Responsibility' as a Normative Power close AI's Responsibility Gap? Maximilian Kiener (University of Oxford)  Responsible Deployment of AI by a Smart Society Sabine Thürmel (Technische Universität München)	Session 25: AI, E (Zoo Modera Tech Suppo Human Rights to Hea Privacy in the Covid-1	tion in the Big Data Era	Panel 4: Beyond Ethics: Proposing a Political Economic Framework to Interrogate and Supplement Ethics in AI Policymaking (Zoom: Room 3) Tech Support: Gernot Rieder  PANELISTS  Anupam Guha (Centre for Policy Studies, Indian Institute of Technology Bombay) Vidushi Marda (ARTICLE 19) Bidisha Chaudhuri (IIIT Bangalore)

	Paper withdrawn, session only 60 minutes long.	(Western University)  Digital Surveillance in Bioethics Needs to Lea	and Sorting on Social ly Cichocki, Carolyn McLeod a Pandemic-Response: what arn from Indigenous sity of Augsburg; Ludwig- y in Munich)	Shishir Jha (CPS, IIT Bombay)
	30-Minute Break			
4:15-5:45pm (CEST)	Session 26: Data, AI, and Respons (Zoom: Room 1) Moderation: Deborah G. John: Tech Support: Ingrid Schneid  Is There a Civic Duty to Support Biomedical AI Devel Personal Health Data? Sebastian Müller (ceres - University of Cologne)  Conceptualising Solidarity in the Context of AI Catharina Rudschies (Universität Hamburg)	son er	What Confucian Ethics Can Geriatric Patients Alexis Elder (University of I Insights and Consideration Guideline for the Value-bas	s from a Project to Derive a Tentative Ethical sed Development of AI Systems in Medicine
	Ethics of AI Ken Archer (Upwave)		Arne Sonar (Universität zu Karsten Weber (OTH Reger Are Autonomy Algorithms A AI Ethics Erik Campano (Umeå Unive	Acceptable?: Advancing A New Debate in Medical

6:15-7:45pm (CEST)	Keynote IV (Zoom: Webinar Room)
	Winner of the 2021 Weizenbaum Award of INSEIT  Rafael Capurro (International Center for Information Ethics)
	Title of Talk: Joseph Weizenbaum: A Parrhesiastes in the Digital Age
	Laudation: Maria Bottis
	Moderation: Herman T. Tavani
8-9pm	Social Gathering / Mentoring Session
(CEST)	(Zoom: Main Hall / Mentoring Room)
	End of Day 4

### DAY 5 – Friday 9<sup>th</sup> July

11am-12pm (CEST) 12-1:30pm (CEST)	Welcome Coffee / Mentoring Program (Zoom: Main Hall / Mentoring Room)				
	Session 28: Business Ethics and Al Startups (Zoom: Room 1) Moderation + Tech Support: Gernot Rieder  A Method for Responsibility in Innovation in Al Firm	Session 29: Transparency and Explainable AI (Zoom: Room 2) Moderation + Tech Support: Pak-Hang Wong  Coping with Black Boxes. The Quest for	Panel 5: Ethical AI: Between Theory and Practice (Zoom. Room 3) Tech Support: Judith Simon		
	Start-Ups Tanja Sinozic, Steffen Bettin and Titus Udrea (Institute for Technology Assessment (ITA), Austrian Academy of Sciences (ÖAW)) Annika Schönauer (Forschungs- und Beratungsstelle Arbeitswelt (FORBA) (Working Life Research Centre)) Lisa Smith and Georgia Mammes (Prewave GmbH)	Epistemic Transparency in Artificial Intelligence Hajo Greif (Warsaw University of Technology)  Beyond Informativeness in the Epistemology and Ethics of xAI in Healthcare Giorgia Pozzi and Juan Manuel Durán (TU Delft)	PANELISTS  Gijs van Maanen (Tilburg University) Esther Keymolen (Tilburg University) Tineke Broer (Tilburg University) Merel Noorman (Tilburg University)		
	Community-in-the-loop: towards pluralistic value creation in AI, or—why AI needs business ethics Johann Jakob Häußermann (Fraunhofer CeRRI (IAO); TUM School of Governance) Christoph Lütge (TU Munich)  Ethics State of AI Startups in Turkey: A Look at the Developers' Perspectives Busra Kilic (Istanbul Bilgi University)	Paper moved from session 20:  Governance of AI Ethics Kevin Macnish (unaffiliated) Bernd Stahl (De Montfort University) Mark Ryan (Wageningen University & Research) Josephina Antoniou (University of Central Lancashire)			
	Erkan Saka (Istanbul Bilgi University)	Tilimbe Jiya (De Montfort University)  45-Minute Break			

2:15-3:15pm	Session 30: "Intelligence" in Artificial Intelligence	Session 31: Cybersecurity and Adversarial Attacks
(CEST)	(Zoom: Room 1)	(Zoom: Room 2)
	Moderation + Tech Support: Jason Branford	Moderation + Tech Support: Laura Fichtner
	Looking for a Mark of Intelligence	Ethical Principles for Cybersecurity AI Applications: Some Controversial Issues
	Dimitri Coelho Mollo (Humboldt-Universitaet zu Berlin)	Danilo Bruschi (Università degli Studi di Milano) Nicla Diomede (Università degli Studi di Milano)
	Is the Problem with AI Intelligence rather than Artificial? The Ethical	
	Significance of Perspectives in Evolutionary Psychology and Cultural Evolution	Ethics of Adversarial Policies and Data Poisoning: Collateral Damage Considerations
	Rocky Clancy III (TU Delft)	Laurynas Adomaitis (Nord Security and CEA)
		Rajvardhan Oak (Microsoft)
	15-Minute Break	
3:30-4:30pm (CEST)	Keynote V (Zoom: Webinar Room)	
Winner of the 2021 Simon Award of IACAP  Carissa Véliz		•
	Title of Talk: Why We Should End the Data Economy	
	Laudation & Moderation: Steve McKinlay	
4:30-5:00pm	Farewell & End of Conference	
(CEST)	Keith Miller (President of INSEIT)	
	Steve McKinlay (Executive Director IACAP)  Judith Simon (Local Host, UHH)	
	Juditii Siirioii (Locai riost, Oriii)	
	(Zoom: Webinar Room)	