

Autonomy in the Digital Age: Rethinking Relationships between Humans, Technology and Society

An international hybrid conference of the research group 'Autonomy and Autonomous Systems'

20 November – 22 November 2022, University of Bonn, Germany & Online

University of Bonn, Lennéstraße 6 - Room 4.001, 53113 Bonn &

Universitätsclub Bonn e.V., Konviktstraße 9, 53113 Bonn

www.autonomy-research-group.org

- **Program & Timetable** -

Please find Zoom links at the end of the program

Sunday, November 20 th 2022 (Opening: Lennéstraße 6, Room 4.001, 53113 Bonn)	
17:00	<p>Conference Opening and Reception: Research Group 'Autonomy and Autonomous Systems' (Gabriele Gramelsberger, Maximilian Mayer, Frank Piller & Caja Thimm)</p> <p>Welcome: Dean of the Faculty of Arts (University Bonn), Prof. Dr. Volker Kronenberg</p>
18:00	Keynote I: Epistemic Shifts in the Digital Age: From Loving the Data to Loving Automation (<i>Karin Knorr Cetina, Chicago/USA</i>)
20:00	Dinner (Tuscolo Restaurant, self paid)

Monday, November 21 st 2022 (University Club)			
09:00	Keynote II: Europe in a Geo-economic Age: Digital Sovereignty or Digital Dependence (<i>Abraham Newman, Washington DC/USA</i>) (Wolfgang-Paul-Hall)		
10:30 – 11:00	Coffee Break/University Club		
11:00 – 12:30	<p>Panel 1: Autonomy in interdisciplinary Approaches, Chair: Caja Thimm (Schumpeter-Room)</p> <ul style="list-style-type: none"> • Autonomy of the digital subject (<i>Gabriele Gramelsberger & Maximilian Mayer, Aachen & Bonn/Germany</i>) • On different uses of the concept “autonomy” & Autonomy, Technology, and Artificial Intelligence (<i>Bert Heinrichs & Dieter Sturma, Bonn/Germany</i>) • Farewell Traffic Law (<i>Guy Seidman & Aviv Gaon, Herzliya/Israel</i>) • Listening Devices. Music Media in the pre-digital Era (<i>Jens Papenburg, Bonn/Germany</i>) 		
12:30 – 13:30	Lunch Break/University Club		
13:30 – 15:00	<p>Panel 2: Democracy, Digitalization, Socio-technical Transformations, Chair: Maximilian Mayer (Schumpeter-Room)</p> <ul style="list-style-type: none"> • The Digital Revolution and Democratic Politics: A Problem-Solving Divergence (<i>Peter Hägel, Paris/France</i>) • Limiting technologisation for human autonomy? Reconsidering Illich’s “conviviality” in the digital age (<i>Anne Hoss, Hamburg/Germany</i>) • "Autonomy" and "autonomous weapon systems" as a geopolitical signifiers: AI imaginaries in Chinese and US military policies (<i>Thomas Bächle & Jascha Bareis, Berlin/Germany</i>) 		
15:00 – 15:30	Coffee Break/University Club		
15:30 – 17:00	<table border="1"> <tr> <td> <p>Panel 3: Tensions of Multiperspectivity (Schumpeter-Room)</p> <ul style="list-style-type: none"> • A feminist lens on automation in education (<i>Irina Zakaharova, Bremen/Germany</i>) • Working With Robots: Design and Evaluation of an Introductory Computer Science Teaching Unit With Educational Robots (<i>Lilli Bruckschen, Bonn/Germany</i>) • Chernobyl 1986/2086: Ripping the Textile of Time Woven into Artificial Intelligence (<i>Benjamin Peters, Aachen/Germany</i>) </td> <td> <p>Panel 4: Hybridization and Companionship, Chair: Sigrid Brell-Cokcan (Martini-Room)</p> <ul style="list-style-type: none"> • Designing Agents as Artificial Companions - A Systematic Literature Review on the Companion Paradigm (<i>Ayanda Rogge, Dresden/Germany</i>) • Human-Autonomy Teamwork (HAT) on Construction sites: Agency, Communication, and Collaboration (<i>Caja Thimm & Sven Stumm, Bonn & Aachen/Germany</i>) • Autonomous machines as members of innovation teams: collaboration between human and machine intelligence in engineering, design and new product development (<i>Frank Piller/Kathleen Diener, Aachen/Germany</i>) </td> </tr> </table>	<p>Panel 3: Tensions of Multiperspectivity (Schumpeter-Room)</p> <ul style="list-style-type: none"> • A feminist lens on automation in education (<i>Irina Zakaharova, Bremen/Germany</i>) • Working With Robots: Design and Evaluation of an Introductory Computer Science Teaching Unit With Educational Robots (<i>Lilli Bruckschen, Bonn/Germany</i>) • Chernobyl 1986/2086: Ripping the Textile of Time Woven into Artificial Intelligence (<i>Benjamin Peters, Aachen/Germany</i>) 	<p>Panel 4: Hybridization and Companionship, Chair: Sigrid Brell-Cokcan (Martini-Room)</p> <ul style="list-style-type: none"> • Designing Agents as Artificial Companions - A Systematic Literature Review on the Companion Paradigm (<i>Ayanda Rogge, Dresden/Germany</i>) • Human-Autonomy Teamwork (HAT) on Construction sites: Agency, Communication, and Collaboration (<i>Caja Thimm & Sven Stumm, Bonn & Aachen/Germany</i>) • Autonomous machines as members of innovation teams: collaboration between human and machine intelligence in engineering, design and new product development (<i>Frank Piller/Kathleen Diener, Aachen/Germany</i>)
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17:00	Keynote III: Strategic Autonomies: Some reflections on the politics of autonomous systems (<i>Lucy Suchman, Lancaster/England</i>) (Wolfgang-Paul-Hall)
19:00	Dinner/University Club
Tuesday, November 22nd, 2022 (University Club)	
9:00 – 10:30	<p>Panel 5: Robots between Norms and Control, Chair: Gabriele Gramelsberger (Schumpeter-Room)</p> <ul style="list-style-type: none"> • Handing over Control to Autonomous Systems and Robotics in Construction the Strain of Working with Complex Systems (<i>Sigrid Brell-Cokcan & Sven Stumm, Aachen/Germany</i>) • The Mode of Autonomy – AWS and the downing of Iran Air Flight 655 (<i>Christoph Ernst, Bonn/Germany</i>) • Negotiating Normativity: Practices, technology, and lethal autonomous weapon systems (<i>Ingvild Bode, Odense/Denmark</i>)
10:30 – 11:00	<i>Coffee Break/University Club</i>
11:00 – 12:30	<p>Panel 6: Medicine and Care, Chair: Caja Thimm (Schumpeter-Room)</p> <ul style="list-style-type: none"> • From alignment to adaptation. Histories of automation in robotic radiosurgery (<i>Kathrin Friedrich, Bonn/Germany</i>) • Undue Manipulation or Autonomy Support: A Cross Section of the Ethics of Clinical Decision Support-Systems (<i>Hendrik Kempt & Jared Parmer, Aachen/Germany</i>) • Reconfiguring Autonomy? Robotics And Care In A German Research Initiative (<i>Maximilian Braun & Svenja Breuer, Munich/Germany</i>)
12:30 – 13:30	Keynote IV: How to solve crimes you do not understand - On the use of Machine Learning in Predictive Policing and its impact on Autonomy (<i>Jutta Weber & Jens Hälterlein, Paderborn/Germany</i>) (Schumpeter-Raum)
13:30 – 14:00	<i>Summary and future perspectives</i> <i>Caja Thimm, Maximilian Mayer, Gabriele Gramelsberger, Frank Piller</i>
14:00	<i>End of Conference</i>

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Zoom Links	
Opening: (Day 1) Sunday, 20th November Lennéstraße 6	https://uni-bonn.zoom.us/j/65421907722?pwd=RFdQdlA1aUg4QmRwSG5lS1dzZkdaZz09 Meeting ID: 654 2190 7722 Code: 819718
Wolfgang-Paul-Saal: (Day 2/Day 3) Monday/Tuesday 21st/22nd November University Club, Bonn	https://uni-bonn.zoom.us/j/69186795756?pwd=cmR0ZUdUcHorNmZ4UllXaGNkWkNCUT09 Meeting ID: 691 8679 5756 Code: 505653
Schumpeter-Room: (Day 2/Day 3) Monday/Tuesday 21st/22nd November University Club, Bonn	https://uni-bonn.zoom.us/j/66400897584?pwd=SUFuMmM0bHdhRW1XTElUR09yVUJFZz09 Meeting ID: 664 0089 7584 Code: 686127
Martini-Room: (Day 2), Monday, 21st November University Club, Bonn	https://uni-bonn.zoom.us/j/65561039209?pwd=WFU2ZUE3cHQvcjFUVG15b3hzYlJndz09 Meeting ID: 655 6103 9209 Code: 812130

Organization and Contact:

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