



# The Grammar of Things

Darmstadt, June 14–17, 2017

## Wednesday 2:00 to 4:00 pm

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- 1 Panel: The Language of Biofacts: Grammars of Agricultural “Things”**  
*Darmstadtium 3.09 helium*  
Nicole C. Karafyllis: "Seed banking: a modern grammar of collecting plant origins as biofacts"  
Karin Zachmann: "Agency of biofacts and rules of grammar: introducing nuclear techniques in agriculture to Africa"  
Bernhard Gill: "The grammar of patent law and the dynamics of living organisms"  
Chair:

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- 2 Round Table: Research in a Design Mode – In Conversation with Ann Johnson (1965-2016)**  
*Darmstadtium 3.07 argon*  
Johannes Lenhard, Leah McClimans, Alfred Nordmann, Joe Pitt – and others

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- 3 Submitted papers: Articulations**  
*Darmstadtium 2.03 vanadium*  
Pieter Vermaas and Sara Eloy: "Grammar and Quality: Assessing the Design Quality of Grammar-System Generated Architecture"  
Algirdas Budrevicius: "Hylomorphism and Cartesian Coordination as Basis for the Definition of Thing and for the Grammar of Things"  
Michael Poznic: "Architectural Modeling: Interplay of Designing and Representing"  
Roberto Gronda: "Technological Articulation: a Pragmatist Account"  
Chair:

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- 4 Submitted papers: Extended Selves**  
*Darmstadtium 3.05 radon*  
Joshua Earle: "Identity and Normative Danger in Transhumanist Rhetoric"  
Haiqing Ji: "Human Enhancement Ethics and Naturalistic Fallacy"  
Terry Bristol: "Hawking Evolution: Survival of the Weaker"  
Federica Buongiorno: "Lifelogging and the 'Technologies of the Self' – Some Phenomenological Remarks on Digital Processes of Subjectification"  
Chair:

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- 5 Submitted papers: Good Governance**  
*Darmstadtium 3.03 germanium*  
Kunru Yan: "Technological Risks and Responsible Innovation"  
Sven Ove Hansson: "How to perform an ethical risk analysis"  
Hangqing Cong and Ximeng Chen: "Social Governance in Chinese Engineering"  
Wha-Chul Son: "SDGs in the Era of the 4th Industrial Revolution"  
Chair:

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- 6 Submitted papers; Ontological Practices**  
*Darmstadtium 2.02 chromium*  
Mark Coeckelbergh: "Magic devices, gothic robots, and romantic people: Understanding the use of contemporary technologies in the light of romanticism"  
Andreas Beinsteiner: "Material irritations in the grammar of things. Post-ontotheological considerations"  
Alexandra Karakas: "Applying Object-Oriented Ontology to Technical Artefacts"  
Mark Young: "Maintenance: Technology in Process"  
Chair:

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- 7 Submitted papers; Technomorality**  
*Darmstadtium 3.08 neon*  
Neelke Doorn, Colleen Murphy and Paolo Gardoni: "Translating social resilience to engineering: How can resilient engineering systems contribute to social justice?"  
Cristian Puga Gonzalez: "The Techno-Moral Change Revised: How Does Technology affect Moral Philosophy?"

Kristene Unsworth: "Smart Cities and Participation in the Polis"  
Glen Miller: "Superabundance and Collective Responsibility in Engineered Systems"  
Chair:

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**8 Track: A New Planetary Orientation for Philosophy of Technology in the Anthropocene? (1)**

***Darmstadtium 2.04 titanium***

Carl Mitcham: "Detaching from the AnTrumpobscene: Notes for a Buddhist Meditation on the Consequences of Technology"

Jochem Zwier and Vincent Blok: "Gaia's Garbage – Technological Insistence and Existence in the Anthropocene"

Steffen Stolzenberger: "Prospects of the Technoscene. Critical Remarks on Sloterdijk's Mystification of History"

Chair:

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**9 Track: Engineering Knowledge (1) – general**

***Darmstadtium 3.02 hassium***

Thomas Zoglauer: "The Nature of Technological Knowledge"

Manjari Chakrabarty: "The Critical Function of Science in the Origins of the Steam Engine"

David Montminy and Gabriel Meunier: "Functional stance towards science and engineering"

Kiyotaka Naoe: "Engineering and Tacit Knowledge"

Chair:

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**Wednesday 4:00 to 4:45 pm**

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coffee break and change of venue

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**Wednesday 4:45 to 6:00 pm**

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Opening Session

*Maschinenhaus 122*

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**Wednesday 6:00 to 7:00 pm**

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Composition Lecture 1 – George Stiny: "Design as Art and Use"

*Maschinenhaus 122*

Chair: Sabine Ammon

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Welcome by Prof. Dr. Hans Jürgen Prömel, President of TU Darmstadt

*Maschinenhaus 22 to 24*

Reception until 9pm

## Thursday 9:00 to 10:00 am

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**Composition Lecture 2 – Pamela Andanda: “The Integration of Traditional Knowledge into the Intellectual Property Regime using Value-Added Justification and Grammatical Analysis of Derivative Works”**

***Maschinenhaus 122***

Chair: NN

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## Thursday 10:00 to 10:30 am

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coffee break

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## Thursday 10:30 to 12:30 am

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### 1 **Panel: Relating to Things that Relate to Us (1) - Ontology and Epistemology** ***Maschinenhaus 22***

Heather Wiltse: "On the multi-intentionality of assembled things"

Yoni Van Den Eede: "The Omnipresence of Breakdown: Object-Oriented Philosophy of Technology"

Holly Robbins: "Design to Situate Im/material Context"

Chair:

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### 2 **Panel: Critical Perspectives on the Role of Mathematics in Data-Science** ***Classrooms 23***

Karen François

Christian Hennig

Johannes Lenhard

Jean Paul Van Bendegem

Chair: Patrick Allo

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### 3 **Panel: Reflections on Andrew Feenberg’s Philosophy of Technology** ***Classrooms 123***

Graeme Kirkpatrick: "Feenberg, Marx and the Dialectic of Technology Reform"

Andrew Feenberg: "Lukács & the Philosophy of Technology"

Edward Hamilton: "The Nietzschean strain in critical theory of technology"

Darryl Cressman: "Contingency & Potential: STS & Critical Theory in Feenberg’s Philosophy of Technology"

Chair:

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### 4 **Panel: Ethics and Politics Within Today’s Computing Environments** ***Classrooms 107***

Javier Bustamante: "The Role of Social Networks and Cloud Computing in the Spread of Post-Trust Beliefs and Developments in Fundamentalist, Populist and Radical Discourses"

Jose Barrientos: "'E-Wisdom and E-Experience: Is it possible to develop wisdom and life experience in computing environments?"

Emillio Suñé Llinás: title tba

Chair:

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### 5 **Submitted papers; Designing Things that Design Us** ***Maschinenhaus 23***

Philip Nickel: "Distributed consent for mHealth"

Wessel Reijers: "Virtue Sensitive Design of Personalised Virtual Assistants"

Bruno Gransche: "Things get to know who we are and tie us down to who we were"

Vincent C. Müller and Alexandre Erler: "The digital goes 3D – and what are the risks?"

Chair:

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- 6 Submitted paper: Disruptive Technologies**  
***Maschinenhaus 24***  
Carlos Fiorentino: "Anthropocentrism vs. Anthropoeccentrism: Philosophical lessons to learn from nature and the emerging bio-centered disciplines"  
Eric Kerr and Vivek Kant: "Breaking down malfunction: What happens when socio-technical systems don't work?"  
Stefan Böschen: "Grammar of Things – A Field-Theoretical Perspective"  
Alexandra Dias Santos: "From a rooted southern perspective: the life and thought of angolano Ruy Duarte de Carvalho"  
Chair:
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- 7 Submitted papers: Prototyping**  
***Classrooms 209***  
Tatjana Miliwojevic and Ivana Ercegovac: "Man-computer Gestalt and The Noosphere Theory: Will the Computer Be Humanized or the Man Computerized?"  
Xiaohui Jiang and Jian Wang: "On Possible Ways to Working through the 'uncanny valley'-Effect in Humanoids Design"  
Robert-Jan Geerts: "The polder as Precedent for Geoengineering"  
Chair:
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- 8 Submitted papers: Responsible Agency**  
***Classrooms 223***  
Xue Yu: "The Moral Agency and Moral Responsibility of Self-driving Cars"  
Jan Peter Bergen: "In Light of Levinas: Rethinking Innovation in Relation to Responsibility"  
Rene von Schomberg: "Global perspectives on Responsible Innovation"  
Martin Peterson: "The Geometry of Engineering Ethics"  
Chair:
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- 9 Track: A New Planetary Orientation for Philosophy of Technology in the Anthropocene? (2)**  
***Classrooms 113***  
Arianne Conty: "Who is to Interpret the Anthropocene? Nature and Culture in the Academy"  
Alexandre Leskanich: "The Technology of History and the Grammar of the Anthropocene"  
Jessica Imanaka: "Laudato Si', Technologies of Power, and Environmental Justice"  
Chair:
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- 10 Track: Engineering Knowledge (2) – special**  
***Classrooms 100***  
Claudia Eckert and Martin Stacey: "Object References as Engineering Knowledge"  
Viola Schiaffonati: "Engineering Knowledge and Experimental Method: The Case of Experimental Computer Engineering"  
Renee Smit: "Idealisation in Engineering Science Knowledge"  
Jan Kratzer, Claudia Fleck and Guenther Luxbacher:  
"Grammar of Mechanical Failure Cases – a Diachronic and Linguistic Comparison"  
Chair:
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- 11 Track: Technology and the City (1) – Architecture and Design**  
***Classrooms 109***  
Sara Eloy and Pieter Vermaas: "Over-the-counter housing design: the city when the gap between architects and laypersons narrows"  
Taylor Stone: "The Morality of Darkness: Urban nights, light pollution, and evolving values"  
Margoh Gonzalez Woge: "Technological Environmentality"  
Felipe Loureiro: "Binding Surfaces: Architecture and The Interplay of Walls and Screens"  
Chair:

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## Thursday 12:30 to 2:00 pm

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lunch break – SPT Board Meeting in Classrooms 109

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## Thursday 2:00 to 4:00 pm

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### 1 **Panel: Assembling a Socio-Technological Future: The Challenge of Russia** **Classrooms 107**

Ilya Sidorchuk: "The Wonders of Technology in Soviet Political Propaganda"

Anna Mazurenko and Natalia Nikiforova: "The Russian National Technology Initiative as a Site for Sociotechnical Imaginaries"

Dmitri Popov: "Political Modernization and Its Technological Limits"

Yulia Obukhova: "The Role of Health in Sociotechnical Imaginaries"

Chair:

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### 2 **Panel: Relating to Things that Relate to Us (2) – Ethics and Pragmatics** **Maschinenhaus 22**

Michel Puech: "Attachment to things, artifacts, devices, commodities: an inconvenient ethics of the ordinary"

Steven Dorrestijn: "Ethics of technology below and above reason: The case of living With smart technologies"

Diane Michelfelder: "The New Assisted Living: Relating to Alexa Relating to Us"

Fanny Verrax: "From dealing with virtual others to the construction of the self:

Videogames as an ethical sandbox"

Chair:

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### 3 **Submitted papers: Cryogenic Probes** **Classrooms 223**

Jol Thomson: "G24|0vßß"

Alexander Friedrich: "The Grammar of Cryopreservation"

Elena Chestnova: "Time travel in seven mile boots: temporality and distance in Gottfried Semper's history writing"

Chair: Cheryce von Xylander

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### 4 **Submitted papers: The Human as Moral Task** **Classrooms 209**

Rayco Herrera: "Günther Anders and the 'Promethean Gap': Imagination as a Moral Task"

Joseph Stramondo: "Is It A Cure? Brain Computer Interfaces

and the Distinction Between Curative and Assistive Technology"

Jose Aravena-Reyes and Ailton Krenak: "Toward an Engineering of Care"

Chair:

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### 5 **Track: A New Planetary Orientation for Philosophy of Technology** **in the Anthropocene? (3)** **Classrooms 113**

Bronislaw Szerszynski: "Technology as a planetary phenomenon"

Pieter Lemmens: "Re-Imagining the Noosphere. Reflections on Digital Network Technology, Energy and Collective Intelligence in the Emerging Ecotechnological Age"

Hub Zwart: "From the nadir of negativity towards the cusp of reconciliation:

A dialectical (Hegelian-Teilhardian) assessment of the anthropocenic challenge"

Iñigo Galzacorta, Luis Garagalza and Hannot Rodríguez: "Rethinking Technology in the Anthropocene: Relations and "Gravitational Forces""

Chair:

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- 6 Track: The Philosophy of Biomimicry (1) – theoretical**  
***Maschinenhaus 24***  
Vincent Blok: "Against a Technological Fix Approach to Biomimicry – Towards a Biomimetic Ethos"  
Aníbal Fuentes Palacios and José Hernández Vargas: "Prose and verse – Accuracy and creativity in the biomimetic transference."  
Henry Dicks: "Biomimicry: An Alternative Path for Reconciling Art and Technology"  
Chair:
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- 7 Track: Questioning the Grammar of 'Critical' Infrastructures (1)**  
***Classrooms 116***  
Anais De Keijser: "The criticality of people as infrastructure: Creating resilience in the provision of urban services through System-D"  
Alexandre Pólvora: "Urban crowdsensing and the sociotechnical challenges of open and low-cost DIY/DIT tools"  
Marcel Müller: "Reading Cities – Building Blocks for a Grammar of Technical Structures"  
Florian Maurer and Albrecht Fritzsche: "System Protection and the Benefit of Others – a Service Perspective"  
Chair:
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- 8 Track: Artefacts, Design Practices, Knowledge Productions (1) – Models and Simulation**  
***Classrooms 100***  
Sabine Ammon and Henning Meyer: "Simulation Models as Epistemic Tools in Product Development: A Case Study"  
Rafaela Hillerbrand and Eckert Claudia: "Models in Engineering Design Processes"  
Mieke Boon and Miles MacLeod: "Model-Based-Reasoning (MBR) as a skill for interdisciplinary approaches to socio-technological design and research"  
Hans Hasse and Johannes Lenhard: "Ennobling Ad Hoc Modifications. Confirmation, Simulation, and Adjustable Parameters"  
Chair:
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- 9 Track: Pedagogical Pragmatics – Teaching Ethics and Philosophy of Technology (1)**  
***Maschinenhaus 23***  
Ashley Shew: "Teaching Technology & Disability"  
Diana Adela Martin, Eddie Conlon and Brian Bowe: "A Critical Reflection on Extending the Case Study Method in the Teaching of Engineering Ethics"  
Atsushi Fujiki: "Developing pedagogical method of engineering ethics integrated with environmental ethics"  
Thomas M Powers: "Globalizing Science and Engineering Ethics: Convergence or Equilibrium?"  
Chair:
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- 10 Track: Technologie and the City (2) - (Infra-)Structures**  
***Classrooms 109***  
Michael Nagenborg: "Elevators as Urban Technologies: Past, Present, and Future"  
Vlad Niculescu-Dinca: "Towards a Sedimentology of Infrastructures: A Geological Approach for Understanding the City"  
Alessia Calafiore, Nicola Guarino and Guido Boella: "Recognizing Urban Forms through the Prism of Roles Theory"  
Shane Epting: "Automated Vehicles and Transportation Justice: Two Challenges for Planners and Engineers"  
Chair:

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- 11 Track: Technology Translations: Philosophical Interactions across Disciplines and Application Domains (1)**  
***Classrooms 123***  
Ole Kliemann: "The Human in the Machine"  
Jan Torpus, Christiane Heibach and Andreas Simon: "Human Adaptivity to Responsive Environments"  
Cecilia Moloney: "Self-Attention in Learning and Doing Digital Signal Processing: Why and How"  
Beth Preston: "Sustainable technology in action: Intractable users and behavior-steering technologies"  
Chair:
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- 12 Track: Postphenomenological Research (1) – Theorizing Bodies**  
***Classrooms 23***  
Jesper Aagaard: "Technohabitual Agency: Habits, Akills, and Egoless Agency"  
Ciano Aydin: "World Oriented Self-Formation: Postphenomenology meets Peircean Pragmatism"  
M. Kirk: "The Digitized Body: A Twenty-First Century Reconstitution of the Leib/Körper Distinction"  
Moderator: Don Ihde
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## **Thursday 4:00 to 4:30 pm**

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**coffee break**

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## **Thursday 4:30 to 5:30 pm**

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**Composition Lecture 3 - Astrid Schwarz: "Gardening in the Anthropocene: Composing or Combining Things Together"**  
***Maschinenhaus 122***  
Chair: Cheryce von Xylander

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## **Thursday 5:30 to 6:30 pm**

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**Composition Lecture 4 – Christian Bök: "The Unkillable Poem"**  
***Maschinenhaus 122***  
Chair: Alfred Nordmann

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## **Thursday 6:45 pm**

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**catch buses for evening session (with food and drink)  
at Weststadt Cafe**



## Friday morning

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acatech special session

Shaping Techno-Organizational Processes: Energy – Information – Autonomy  
*Darmstadtium 2.02 chromium*



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## Friday 9:00 to 10:30 am – *Darmstadtium 2.02 chromium*

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- 1 Klaus Kornwachs: „The Grammar of Techno-Organizational Processes“  
Eberhard Umbach: „People and Things – The German *Energiewende*:  
Do we do the right things and do we do them right?“
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## Friday 10:30 to 11:00 am

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coffee break

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## Friday 11:00 am to 12:30 pm – *Darmstadtium 2.02 chromium*

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- 1 Klaus Mainzer: „People and Things – Complexity 4.0 and Artificial Intelligence“  
Otthein Herzog: „People and Things – How far Autonomy may go?  
Autonomous Multi-Agent Systems, controlling Logistics and Production“
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## Friday 9:00 to 10:30 am

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- 2 **Panel: Acoustic Technics – Sonification in Art and Science**  
*Darmstadtium 2.03 vanadium*  
Don Ihde: "Sonification in Science"  
Andrea Polli: "Witnessing Space"  
Pete Stollery: "Playing Sound; some thoughts on listening, embodiment, acousmatics and improvisation"  
Chair:
- 3 **Panel: Conceptualising Aero-Material Assemblages of the Vertical Gaze (1)**  
*Darmstadtium 2.04 titanium*  
Jutta Weber: "Working with Uncertainty. Understanding Contemporary Sensoric Control"  
Bronislaw Szerszynski: "Filling the volume: towards a grammar of aerial motion"  
Peter Novitzky and Peter-Paul Verbeek: "Domestic Drones from the Perspective of the Theory of Technological Mediation"  
Chair: Francisco Klauser
- 4 **Submitted papers: Classics**  
*Darmstadtium 3.06 xenon*  
Zheng Liu: "Chuang-tze's Philosophy of Technology and the Technological Mediation Theory"  
Baohua Xia: "On Francis Bacon as the Father of Philosophy of Technology"  
Chair:
- 5 **Submitted papers: Communication**  
*Darmstadtium 3.08 neon*  
Jia Chen and Fan Chen: "Research on Technological Communication from the Perspective of Social Integration"

Alexis Elder: "Why not just step away from the screen and talk face to face?  
The Moral Import of Communication Medium Choice"  
Andreas Henze: "This Machine is Part of Me like your Voice: On Interacting with Technologically  
Generated Voices"  
Chair:

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- 6 Submitted papers: Ethics**  
***Darmstadtium 3.02 hassium***  
Wade Robison: "Engineers' Oath: Do no unnecessary harm!"  
Dylan Wittkower: "Disaffordances and Dysaffordances in Code"  
Tiago Carvalho: "Gardening in the Anthropocene: Going Nowhere, Growing Somewhere"  
Chair: Astrid Schwarz
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- 7 Submitted papers: Designed Spaces**  
***Darmstadtium 3.03 germanium***  
Irene Breuer: "The grammar of architectural design: Graphs, grids and diagrams""  
Emre Demirel: "The Haptic and Visual Considerations of the Public Spaces: Otto Herbert  
Hajek's Proposal for Hergelen Square in Ankara"  
Jaana Parviainen and Seija Ridell: "Choreographies of Smart Urban Power"  
Chair:
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- 8 Submitted papers: Metaphysics**  
***Darmstadtium 3.09 helium***  
Adam Toon: "Things and Concepts"  
Hajo Greif: "The Reality of Augmented Reality"  
Ingvar Tjostheim: "The Feeling of Being-There -Is it an Illusion?"  
Chair:
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- 9 Submitted papers: Normative Developments**  
***Darmstadtium 3.05 radon***  
Peeter Mürsepp: "Aim-oriented Approach to Technology"  
Gregory Fernando Pappas: "Technological Pragmatism: A Robust Normative Standpoint  
that can Advance the Philosophy of Technology"  
Christiano C. Cruz: „Brazilian Popular Engineering and the Responsiveness of Technical  
Design to Social Values“  
Chair:
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- 10 Track: Technology Translations: Philosophical Interactions across  
Disciplines and Application Domains (2)**  
***Darmstadtium 3.07 argon***  
Scott Luan: "Grammars of Creation"  
Anna Dot: "Translationscapes and its Multidimensional Articulations – An Approach to Borders  
from the Project 'On Translation', by Antoni Muntadas"  
Silvia Mollicchi: "Mediums as Languages: A Transcendental Naturalist Approach to the Relation  
between Mediums and Representation"  
Chair:
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**Friday 10:30 to 11:00 am**

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coffee break

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**Friday 11:00 am to 12:30 pm**

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- 2 Panel: Conceptualising Aero-Material Assemblages of the Vertical Gaze (2)**  
***Darmstadtium 2.04 titanium***  
Ole B. Jensen: "Drones in the Volumetric City"  
Francisco Klauser: "Spatialities of the Drone: Conceptualising the encounter of big data and  
the air"  
Maximilian Jablonowski: "The Transformation of the 'Vertical Public': The Aesthetic, Political,

and Epistemological Practices of Consumer Drones"  
Chair: Jutta Weber

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**3 Submitted papers: Avatars**

***Darmstadtium 3.02 hassium***

Xiaoju Dong: "Avatar: Multiple or Disrupted? A research on the identity in the age of Internet"

Fabian Offert: "Exhibiting Computing Machines – Computational Agency as a Speculative Principle for Exhibition Design"

Dylan Wittkower: "Teh Intarwebs: Maed of Cats, Akshully"

Chair:

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**4 Submitted papers: Experimental Ethics**

***Darmstadtium 3.08 neon***

Manja Unger-Büttner: "Design as Experimental Ethics – Moral Skepticism and the Value of Exploration."

Philip Brey: "Structural Ethics: Ontological Foundations and Implications for the Ethics of Technology"

Robert Braun: "Kinotopias: The Politics of Autonomous Mobility"

Chair:

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**5 Submitted papers: Technological Politics**

***Darmstadtium 3.05 radon***

Björn Sjöstrand: "Technology, Ethics, and Politics in a Globalized World"

Ching Hung: "Technologizing Democracy toward Democratizing Technology"

Lumeng Jia: "From assessment to design – What is really needed in Technology Accompaniment?"

Chair:

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**6 Submitted papers: Technology in Science**

***Darmstadtium 3.09 helium***

Mark Young: "Making or Using?: The Geiger Counter and Early Cosmic Ray Research"

Pablo Aceves Cano: "Technological Normativity – Its Epistemic Role in Science and Mathematics"

Chair:

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**7 Track: Pedagogical Pragmatics; Teaching Ethics and Philosophy of Technology (2)**

***Darmstadtium 2.03 vanadium***

Edward Hamilton: "Ontologies of 'Openness' and the Politics of Educational Technology"

Cristiano C. Cruz: "How to Form Engineers Capable of Social Technology and Popular Engineering: Some Brazilian Initiatives"

Daniel Jenkins: "Moral Philosophy and Automation: How Should Engineers Decide How Machines Should Decide?"

Chair:

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**8 Track: Technology and the City (3) – Exploring the City**

***Darmstadtium 3.06 xenon***

Diane Michelfelder: "Urban Landscapes and the Techno-Animal Condition"

Remmon Barbaza: "Metro Manila: A City Without Syntax?"

El Putnam: "Locative Reverb: Artistic Practice, Digital Technology, and the Grammatization of the City"

Chair:

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**9 Track: Technology Translations: Philosophical Interactions across Disciplines and Application Domains (3)**

***Darmstadtium 3.07 argon***

Barbara Ziegler: "Unmanned aerial systems in armed conflict: Synergies between historical and philosophical perspectives"

Eva-Maria Raffetseder: "Die Episteme von Prozessmanagementsystemen am Beispiel von Salesforce"

Terry Bristol: "Design Communication and Innovation Policy"

Chair:

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**10 Track: Postphenomenological Research (2) – Technologized Space**

***Darmstadtium 3.03 germanium***

Robert Rosenberger: "Multistable Public Space: From Park Benches to Bathroom Stalls"  
Søren Riis: "What Is It Like To Be A House? Towards An Ontology of the Internet of Things"  
Olya Kudina: "Deconstructing a Panopticon Tower of the Digital Age: A Phenomenological Account of Google Glass"  
Peter-Paul Verbeek: commentary  
Moderator: Don Ihde

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**Friday 12:30 to 2:00 pm**

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**lunch break**

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**Friday 2:00 to 3:30 pm**

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**1 Submitted papers: Deliberative Spaces**

***Darmstadtium 3.05 radon***

Yana Boeva: "Process over Form: Making Design Visible with Participatory Making"  
Hatice Server Kesdi and Serkan Güneş: "The Impact of Ontological Shift From User to Participator in Design Process on Construction of Socio-Technical Systems"  
Maria Rosaria Stufano Melone and Stefano Borgo:  
"Ontological Analysis for Shared Urban Planning Understanding"  
Chair:

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**2 Submitted papers: Contestations**

***Darmstadtium 3.08 neon***

Sabine Thuermel: "Online Dispute Resolution based on Smart Contracts: An Example of Disintermediation and Disruption of a Socio-technical System"  
Paul Thompson: "Sociotechnical Imaginaries for Future Food"  
Inmaculada de Melo-Martin: "Valuing Reprogenetic Technologies"  
Chair:

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**3 Submitted papers: Instruments**

***Darmstadtium 3.07 argon***

Stanley Kranc: "What Could Instrumental Perception Be?"  
Maxence Gaillard: "The individuation of a scientific instrument"  
Dazhou Wang: "Reflections, Thinking in prospect and Experiments in the Technological Era"  
Chair:

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**4 Submitted papers: Medical Representations**

***Classrooms 107***

Tiina Pitkäljärvi: "Breast Cancer Awareness and Fundraising Campaigns in Sweden from a Material-Semiotic Perspective"  
Alena Wackerbarth: "Context and Models of Frame-Based Cranial Reconstruction"  
Chair:

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**5 Submitted papers: Privacy**

***Darmstadtium 3.09 helium***

Wulf Loh: "Publicity and Privacy in the Digital Age"  
Tobias Matzner: "The interdependence of subjectivity and things: new reflections on the value of privacy"  
Hao Wang: "Can Privacy Escape Powers? Towards a Theory of Privacy Through the Lens of Play"  
Chair:

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**6 Submitted papers: Attractive Objects**  
***Darmstadtium 2.04 titanium***  
Levi Checketts: "The Sacrality of Things"  
Sam Edens: "Constructing a Public on the Plane of Objects: A Case Study of Fairphone"  
Maria Kapsali: "Novel Affordances: Technological Artefacts in Modern Postural Yoga Practice"  
Chair:

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**7 Submitted papers: Technology and Language**  
***Darmstadtium 2.03 vanadium***  
Mark Coeckelbergh and Michael Funk: "Transcendental Grammar and Technical Practice in Wittgenstein's Late Writings: Reading Wittgenstein as a Philosopher of Technology"  
Joseph Pitt: "Updating the Language of Philosophy"  
Mark Cutler: "What Do Things Want?"  
Chair:

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**8 Track: Artefacts, Design Practices, Knowledge Productions (2) – Social Development of Artifacts**  
***Darmstadtium 3.02 hassium***  
Geetanjali Date and Sanjay Chandrasekharan: "What role do formal structures play in the design process?"  
Wei Min Wang, Konrad Exner, Maurice Preidel, Julius Jenek, Sabine Ammon and Rainer Stark: "Evaluation of Knowledge-Related Phenomena in Milestone-Driven Product Development Processes – An Explorative Case Study on Student Projects"  
Chair:

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**9 Track: Postphenomenological Research (3) – Augmented Realities**  
***Darmstadtium 3.03 germanium***  
Galit Wellner: "The Grammar of Augmented Reality"  
Richard Lewis: "Leveraging the Idea of Multistability with Regard to Museum Selfies"  
Nicola Liberati: "The Emperor's New Augmented Clothes: Digital Objects as Part of the Every Day"  
Moderator: Robert Rosenberger

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## Friday 3:30 to 4:15 p

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coffee break and change of venue

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## Friday 4:15 to 5:15 pm

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**Composition Lecture 5 – Dagmar Schäfer: "The Nominal Group – Things in Ming-Chinese Local Gazeteers (Difangzhi)**  
***Maschinenhaus 122***  
Chair: Zaiqing Fang

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## Friday 5:15 to 6:00 pm

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**Plenary Session: Darmstadt for Philosophers of Technology**  
***Maschinenhaus 122*** – followed by optional small-group explorations

## Saturday 9:00 to 11:00 am

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- 1 Round Table: Book Discussion "Philosophy of Technology after the Empirical Turn: Perspectives on Research in the Philosophy of Technology in the Next Decade"**  
**Classroom 109**  
Shannon Vallor, Mark Coeckelbergh, Peter-Paul Verbeek, Albrecht Fritzsche, Astrid Schwarz, Martin Gessmann  
Chairs: Maarten Franssen, Peter Kroes, Pieter Vermaas
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- 2 Panel: AI and the Expert – Expert Knowledge in the Age of Artificial Intelligence**  
**Classrooms 223**  
Hidekazu Kanemitsu: "Rethinking the Dreyfus model and an Examination of Current Issues Regarding Expert Knowledge"  
Toshihiro Suzuki: "On the expertise of skilled workers in factories"  
Tetsuya Kono: "What is work for human beings after AI dominance? "  
Minao Kukita: "Buridan's Asimo: Difficulty in mechanisation of moral competence"  
Chair:
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- 3 Submitted papers: Artificial Intelligence**  
**Maschinenhaus 22**  
Janina Loh: "Responsibility and Robot Ethics – A Critical Overview and the Concept of Responsibility Networks"  
Ping Yan: "The Revolt of AI to Paternalistic Medical in China: From the Perspective of Responsible Innovation"  
Nobutsugu Kanzaki: "Possibility of co-design in development process of AI and robot technology"  
Reina Saijo: "Human's Vulnerability to AI technology for Decision Support System and a Possibility of Some Autonomous and Authentic Way of Living"  
Chair:
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- 4 Submitted papers: Hermeneutics**  
**Classrooms 113**  
Dennis Weiss: "How Ought We to Treat Our Televisions?"  
Alberto Romele, Paolo Furia and Marta Severo: "Digital Hermeneutics: Mapping the Debate and Paving the Way for New Perspectives"  
Michael Funk: "The Grammar of Information – Methodological Constructivism/Culturalism and the Philosophy of Technology"  
Chair:
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- 5 Submitted papers: Phenomenological Perspectives**  
**Classrooms 107**  
Lucien von Schomberg and Vincent Blok: "Innovation and the Character of our Age"  
Ashwin Jayanti: "A Revised Phenomenological Hermeneutics for Understanding the Grammar of Things"  
Jonathan Simon: "The medical drug as technological object."  
Liyun Zhou: "The Boundary and its challenges between Digital Technology and Digital Art: A Phenomenological Perspective"  
Chair:
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- 6 Track: The Philosophy of Biomimicry (2) – applied**  
**Maschinenhaus 24**  
Milutin Stojanovic: "Biomimicry in Agriculture: Is the ecological system-design model the future agricultural paradigm?"  
Sara Castiglioni: "The Fifth Wave - Applying Biomimicry to Business"  
Thomas Baumeister and Dayna Baumeister: "The Ethos of Biomimicry – A Pathway from Practice to Philosophy"  
Anuj Jain: "Can biomimicry help conserve species and habitats while providing sustainable livelihood benefits to indigenous communities?"  
Chair:

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- 7 Track: Questioning the Grammar of ,Critical' Infrastructures (2)**  
**Classrooms 116**  
José Luís Garcia, Helena Mateus Jerónimo and Pedro Xavier Mendonça:  
"Philosophy and disasters: the outbreak of Legionnaires' disease in Portugal"  
Anshika Suri: "Women's Everyday Contestations and Negotiations with Technology  
in Cities of East Africa"  
Leon Hempel: "Staging Criticality and Temporalizing It"  
Chair:
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- 8 Track: Artefacts, Design Practices, Knowledge Productions (3) –  
Action in Engineering Knowledge**  
**Classrooms 100**  
Sjoerd Zwart: "Prescriptive Knowledge: The Grammar of Actions and Things"  
Hans Tromp: "Artifact Design Reasoning and Intuition,  
explored through philosophy of action and cognition"  
Judith Simon: "Apprehending Big Data: Extended, Android or Socio-Technical Epistemology?"  
Klaus Kornwachs: "Modalities in describing technological actions: To do, to prevent, to omit"  
Chair:
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- 9 Track: Technology and the City (4) – What makes a smart city**  
**Classrooms 109**  
Giovanni Frigo: "'Green Buildings' in the City? A Reflection about Technology,  
Sustainability Indexes, and the Ethics of Energy"  
Brandt Dainow: "Philosophical Framework for Smart City Analysis"  
Qian Wang and Xue Yu: "Technology and the City: From the Perspective of Organicism"  
Jathan Sadowski: "Parameters of Possibility: Envisioning and Constructing  
the Smart Urban Future"  
Chair:
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- 10 Track: Technology Translations: Philosophical Interactions across Disciplines  
and Application Domains (4)**  
**Classrooms 123**  
Nils-Frederic Wagner: "Doing away with the Agential Bias: Agency and Patency  
in Health Monitoring Applications"  
Ashley Shew: "Walk This Way"  
Samantha Fried: "Picking a Peck of Pickled Pixels:  
Thinking Through the Pixel Paradigm in Terrestrial Remote Sensing"  
Juan Almarza Anwandter: "On the "Pathos of closeness":  
Technology and experience in contemporary architectural practices"  
Chair:
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- 11 Track: Postphenomenological Research (4) – Mediation/the Mediated**  
**Classrooms 23**  
Jonne Hoek: "Technological Mediation of Limits and the Limits of Technological Mediation"  
Bas de Boer: "Vico's Verum-Factum Principle and Contemporary Technoscience"  
Moderator: Robert Rosenberger
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**Saturday 11:00 to 11:45 am**

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**coffee break**

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## Saturday 11:45 am to 2:00 pm

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**SPT Plenary and Awards Session**  
*Maschinenhaus 122*

**11:45 am** Award announcements

**12:10 pm** Shannon Vallor Presidential Address

**1:00 pm** Don Ihde SPT Distinguished Scholar Lecture

**1:50 pm** Closing remarks

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The Society for Philosophy and Technology

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## End of conference

*Followed by optional excursion to Mainz  
(including tour of the Gutenberg Museum)*

### Conference Organizers:

Sabine Ammon (TU Berlin)  
Alfred Nordmann (TU Darmstadt)  
*with support from Jutta Braun and her team*