The Grammar of Things

Darmstadt, June 14 –17, 2017

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This is the final version of the program, current as of June 14. Further amendments and changes will be announced during the conference. Technische Universität Darmstadt, June 14 to 17, 2017

Wednesday 2:00 to 4:00 pm

1   **Panel: The Language of Biofacts: Grammars of Agricultural "Things"**
Darmstadtium 3.09 helium
Nicole 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: Nicole Karafyllis

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

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"
Chair: Timm Behnecke

4   **Submitted papers: Extended Selves**
Darmstadtium 3.05 radon
Joshua Earle: "Identity and Normative Danger in Transhumanist Rhetoric"
JI Haiqing: "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: DAI Pan

5   **Submitted papers: Good Governance**
Darmstadtium 3.03 germanium
Sven Ove Hansson: "How to perform an ethical risk analysis"
CONG Hangqing and CHEN Ximeng: "Social Governance in Chinese Engineering"
Wha-Chul Son: "SDGs in the Era of the 4th Industrial Revolution"
Chair: ZHANG Fan

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: Suzana Alpsancar

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"
Glen Miller: "Superabundance and Collective Responsibility in Engineered Systems"
Commentator and Chair: Kristene Unsworth

**8   Track: A New Planetary Orientation for Philosophy of Technology
in the Anthropocene? (1)**
Darmstadtium 2.04 titanium
Carl Mitcham: "Engineering Ethics: From Thinking Small to Big"
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: Jochem Zwier

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: Sjoerd Zwart

Wednesday 4:00 to 4:45 pm

coffee break and change of venue

Wednesday 4:45 to 6:00 pm

Opening Session
Maschinenhaus 122

Wednesday 6:00 to 7:00 pm

Composition Lecture 1 – George Stiny: "Design as Art and Use"
Maschinenhaus 122
Chair: Sabine Ammon

Welcome by Prof. Dr. Hans Jürgen Prömel, President of TU Darmstadt
Maschinenhaus 22 to 24

Reception until 9 pm

Thursday 9:00 to 10:00 am

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: Carl Mitcham

Thursday 10:00 to 10:30 am

coffee break

Thursday 10:30 to 12:30 am

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: Kristene Unsworth

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

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: Darryl Cressman

4 Panel: Ethics and Politics Within Cloud Computing and other 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?"
Emiliio Suñé Llinás: "A legal framework for the Internet of Things – Computer Law 2.0"
Chair: Javier Bustamante

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: Hajo Greif

6	**Submitted paper: Disruptive Technologies**

6 **Submitted paper: Disruptive Technologies**
Maschinenhaus 24
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
Angolan Ruy Duarte de Carvalho"
Chair: Jan C. Schmidt

7 **Submitted papers: Prototyping**
Classrooms 209
Tatjana Milivojevic and Ivana Ercegovac: "Man-computer Gestalt and The Noosphere Theory:
Will the Computer Be Humanized or the Man Computerized?"
JIANG Xiaohui and WANG Jian: "On Possible Ways to Working through the 'uncanny valley'-
Effect in Humanoids Design"
Robert-Jan Geerts: "The Polder as Precedent for Geoengineering"
Chair:

8 **Submitted papers: Responsible Agency**
Classrooms 223
YU Xue: "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: Annette Ripper

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

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: Rafaela Hillerbrand

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 – Technologies' Absent-Presence in
Everyday Environments?"
Felipe Loureiro: "Binding Surfaces: Architecture and The Interplay of Walls and Screens"
Chair: Michael Nagenborg

Thursday 12:30 to 2:00 pm

lunch break – *SPT Board Meeting in Classrooms 109*

Thursday 2:00 to 4:00 pm

1 Panel: Assembling a Socio-Technological Future: The Challenge of Russia
Classrooms 123
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: Alfred Nordmann

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:

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

**4 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: Hub Zwart

5 Track: The Philosophy of Biomimicry – theoretical and applied
Maschinenhaus 24
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"
Milutin Stojanovic: "Biomimicry in Agriculture: Is the ecological system-design
model the future agricultural paradigm?"
Chair: Lucien von Schomberg

6 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"
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: Anshika Suri

7   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: Sabine Ammon

8   Track: Pedagogical Pragmatics – Teaching Ethics and Philosophy of Technology (1)
Maschinenhaus 107
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: Glen Miller

9   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: Margoh Gonzalez Woge

10   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: Albrecht Fritzsche

11   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

Thursday 4:00 to 4:30 pm

coffee break

Thursday 4:30 to 5:30 pm

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

Thursday 5:30 to 6:30 pm

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

Thursday 6:45 pm

**Catch buses for evening session with food and drink at
Weststadt Bar, returning on your own or by bus at 9:30pm or 10:30pm**

Friday morning

acatech special session
Shaping Techno-Organizational Processes: Energy – Information – Autonomy
Darmstadtium 2.02 chromium

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

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?"

Friday 10:30 to 11:00 am

     coffee break

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

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"

Friday 9:00 to 10:30 am

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
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: Imagination and Mediation**
Darmstadtium 3.06 xenon
Rayco Herrera: "Günther Anders and the 'Promethean Gap': Imagination as a Moral Task"
LIU Zheng: "Chuang-tze's Philosophy of Technology and the Technological Mediation Theory"
Christiano C. Cruz: "Brazilian Popular Engineering and the Responsiveness of Technical Design to Social Values"
Chair: ZHANG Kang

5 **Submitted papers: Communication**
Darmstadtium 3.08 neon
CHN Jia and CHEN Fan: "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: Nicola Liberati

6 **Submitted papers: Affordances**
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

7 **Submitted papers: Designed Spaces**
Darmstadtium 3.03 germanium
Irene Breuer: "The grammar of architectural design: Graphs, grids and diagrams"
Jaana Parviainen and Seija Ridell: "Choreographies of Smart Urban Power"
Chair: Seija Ridell

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:

9 **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: Albrecht Fritzsche

Friday 10:30 to 11:00 am

coffee break

Friday 11:00 am to 12:30 pm

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:

3   Submitted papers: Instruments
Darmstadtium 3.02 hassium
Stanley Kranc: "What Could Instrumental Perception Be?"
Maxence Gaillard: "The individuation of a scientific instrument"
Michael Funk: "The Grammar of Information – Methodological
Constructivism/Culturalism and the Philosophy of Technology"
Chair: Mieke Boon

4   Submitted papers: Foundations for the Ethics of Technology
Darmstadtium 3.08 neon
Peeter Müürsepp: "Aim-oriented Approach to Technology"
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"
Chair: Abubakr Khan

5   Submitted papers: Technological Politics
Darmstadtium 3.05 radon
Björn Sjöstrand: "Technology, Ethics, and Politics in a Globalized World"
HUNG Ching: "Technologizing Democracy toward Democratizing Technology"
Lumeng Jia: "From assessment to design – What is really needed in Technology
Accompaniment?"
Chair: Peter Müürsepp

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"
ZHOU Liyun: "Rethinking the boundary between science and technology from the Body – A
Review of Donna Haraway's Subject of Technoscience"
Chair:

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:

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: Taylor Stone

9   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: "The Politics of Technological Mediation"
Moderator: Don Ihde

Friday 12:30 to 2:00 pm

lunch break

Friday 2:00 to 3:30 pm

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:

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:

3   Submitted papers: Avatars
Darmstadtium 3.07 argon
DONG Xiaoju: "Avatar: Multiple or Disrupted? A research on the identity in the age of Internet"
Fabian Offert: "Exhibiting Computing Machines – Alien Phenomenology as a Speculative
Principle for Exhibition Design"
Dylan Wittkower: "Teh Intarwebs: Maed of Cats, Akshully"
Chair:

4   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"
WANG Hao: "Can Privacy Escape Powers? Towards a Theory of Privacy
Through the Lens of Play"
Chair:

5   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:

6   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:

7   **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?"
WANG Wei Min, 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: Sjoerd Zwart

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8   **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: "Epistemological Assumptions Inscribed in Process Management Software"
Terry Bristol: "Design Communication and Innovation Policy"
Chair: Geoff Crocker

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9   **Track: Postphenomenologcial Research (3) – Augmented Realities**
Darmstadtium 3.03 germanium
Galit Wellner: "The Grammar of Augmented Reality"
Richard Lewis: "Augmenting Museums with the Self(ie): A Postphenomenological Inquiry"
Nicola Liberati: "The Emperor's New Augmented Clothes: Digital Objects as Part of the Every Day"
Moderator: Robert Rosenberger

Friday 3:30 to 4:15 pm

coffee break and change of venue

Friday 4:15 to 5:15 pm

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

Friday 5:15 to 6:00 pm

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

Saturday 9:00 to 11:00 am

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: Articifial Intelligence**
Maschinenhaus 22
Janina Loh: "Responsibility and Robot Ethics – A Critical Overview and the Concept of Responsibility Networks"
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: Phenomenological Hermeneutics**
Maschinenhaus 24
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"
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"
Chair:

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5   **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"
Chair: Anais De Keijser

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6   **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: Rafaela Hillerbrand

7   **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"
WANG Qian and YU Xue: "Technology and the City: From the Perspective of Organicism"
Jathan Sadowski: "Parameters of Possibility: Envisioning and Constructing
the Smart Urban Future"
Chair: Remmon Barbaza

8   **Track: Technology Translations: Philosophical Interactions across Disciplines
and Application Domains (4)**
Classrooms 123
Nils-Frederic Wagner: "Doing away with the Agential Bias: Agency and Patiency
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: Ashley Shew

9   **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

Saturday 11:00 to 11:45 am

coffee break

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The Society for Philosophy and Technology

SPT Plenary and Awards Session
Maschinenhaus 122

11:45 am Award announcements

SPT DISTINGUISHED SCHOLAR AWARD

Don Ihde (Professor Emeritus, Stony Brook University)

SPT EARLY CAREER AWARD (Sponsored by Springer/*Philosophy and Technology*)

Vlad Niculescu-Dincă (Erasmus University Rotterdam): ""Towards a Sedimentology of Information Infrastructures: A Geological Approach for Understanding the City."

SPT GRADUATE STUDENT PAPER AWARDS

Andreas Beinsteiner (Leopold-Franzens-Universität, Austria): "Material Irritations in the Grammar of Things: Post-onto-theological Considerations"

Levi Checketts (Graduate Theological Union, United States): "The Sacrality of Things"

Cristiano Cordeiro Cruz (University of São Paulo, Brazil): "Brazilian Popular Engineering and the Responsiveness of Technical Design to Social Values"

Taylor Stone (Delft University of Technology, Netherlands): "The Morality of Darkness: Urban Nights, Light Pollution, and Evolving Values"

Yu Xue (Dalian University of Technology, People's Republic of China): "The Moral Agency and Moral Responsibility of Robots"

12:10 pm Shannon Vallor: Presidential Address

1:00 pm Don Ihde: SPT Distinguished Scholar Lecture

1:50 pm Closing remarks

End of conference

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

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