

# RESEARCH REPORT 2017

ANNUAL RESEARCH REPORT OF THE  
ALEXANDER VON HUMBOLDT INSTITUTE FOR INTERNET AND SOCIETY





## RESEARCH REPORT 2017

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## STRATEGIC OBJECTIVES 2017

The Alexander von Humboldt Institute for Internet and Society (HIIG) explores the dynamic relationship between the internet and society, including the increasing interpenetration of digital infrastructures and various domains of everyday life. Its goal is to understand the interplay of socio-cultural, legal, economic and technical norms in the process of digitalisation.

Drawing on problem-oriented basic and applied research, HIIG contributes novel ideas and insights to the public debate on the challenges and opportunities of digitalisation. It serves as a forum for researchers on internet and society and encourages the collaborative development of projects, applications and research networks on the national and international levels. The institute uses a variety of formats to share its research with the public, including the political sphere, business and civil society.

With a view to facilitating research on internet and society, the HIIG team pursued the following objectives in 2017:

- Strengthening HIIG's research strategy and profile
- Supporting the doctoral programme and especially the completion of further doctoral dissertations
- Consolidating the Network of Centers (NoC) and international relationships/fellowship structures, including the set-up of an European hub
- Advancing research transfer through topic-oriented events and communication

More than in previous years, it has been important to secure long-term funding for the institute and succeed in evaluated third-party funding applications.

## THE INSTITUTE'S LINEUP



Susanne Becker  
Management



Sina Beckstein  
Management



Nina Brach  
Management



Carina Breschke  
Management



Marie-Christine Dähn  
Global Constitutionalism and the Internet



Diego Dametto  
Internet-enabled Innovation



Christian Djeffal  
Global Constitutionalism and the Internet



Jérôme Dolling  
Management



Frédéric Dubois  
Internet Policy and Governance



Benedikt Fecher  
Internet-enabled Innovation



Kai Gärtner  
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Kirsten Gollatz  
Internet Policy and Governance



Maximilian von Grafenstein  
Internet-enabled Innovation



Matti Große  
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Amélie Heldt  
Internet and Media Regulation



Jeanette Hofmann  
Internet Policy and Governance



Julian Hölzel  
Global Constitutionalism and the Internet



Florian Irgmaier  
Global Constitutionalism and the Internet



Leontine Jenner  
Internet Policy and Governance



Rebecca Kahn  
Internet Policy and Governance



Christian Katzenbach  
Internet Policy and Governance



Kevin Klug  
Internet-enabled Innovation



Therese Koppe  
Internet-enabled Innovation



Antonia Lings  
Internet-enabled Innovation



Florian Lüdtk  
Management



Christian Marks  
Global Constitutionalism and the Internet



Uta Meier-Hahn  
Internet Policy and Governance



Luis Oala  
Global Constitutionalism and the Internet



Shirley Ogolla  
Innovation | Policy and Governance



Christopher Olk  
Innovation | Policy and Governance



Ingolf Pernice  
Global Constitutionalism and the Internet



Jana Schudrowitz  
Management



Marc Pirogan  
Internet Policy and Governance



Wolfgang Schulz  
Internet and Media Regulation



David Prinz  
Internet-enabled Innovation



Moritz Timm  
Management



Jörg Pohle  
Global Constitutionalism and the Internet



Vivian Weitzl  
Internet-enabled Innovation



Anne-Kristin Polster  
Internet and Media Regulation



Katrin Werner  
Management



Karina Preiß  
Management



Jennifer Wollniok  
Management



Patrick Urs Riechert  
Internet Policy and Governance



Martin Wrobel  
Internet-enabled Innovation



Thomas Schildhauer  
Internet-enabled Innovation



Larissa Wunderlich  
Management



Jessica Schmeiss  
Internet-enabled Innovation

## FELLOWS AND ASSOCIATES

Ayad Al-Ani · Andreas Antic · Julian Ausserhofer · Stefan Baack · Sönke Bartling · Sharon Bar-Ziv · Katharina Beitz · Samuel Brack · Bernardo Caycedo · Stefan Dietzel · Martina Dopfer · Sascha Friesike · Christian Grauvogel · Lisa Gutermuth · Adrian Haase · Anna Hansch · Marcel Hebing · Jonas Kaiser · Urs Kind · Melih Kırıldoğ · Ofra Klein · Christian Kobsda · Jasmin Kühner · Hannfried Leisterer · Sebastian Leuschner · Eduardo Magrani · Rike Maier · Monique Morrow · Alexander T. Nicolai · Christian Pentzold · Emma Peters · Jens Pohlmann · Chiara Poletti · Cornelius Puschmann · Nancy Richter · Robert Riemann · Osvaldo Saldias · Kaja Scheliga · Björn Scheuermann · Martin Schmidt · Rüdiger Schwarz · Hendrik Send · Julian Staben · Stefan Stumpp · Nataliia Sokolovska · Florian Süssenguth · Meropi Tzanetakis · Lies van Roessel · Theresa Züger

## FAREWELL 2017

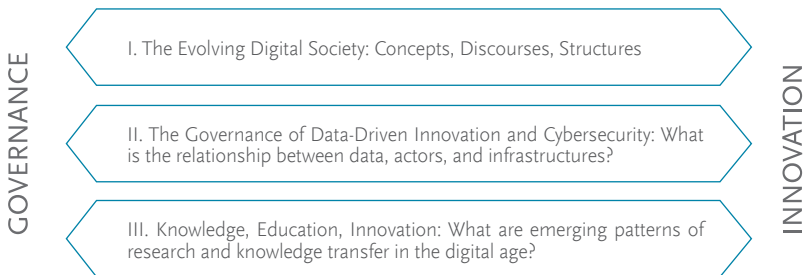
Kevin Dankert · Jenny Fadranski · Kristin Franz · Judith Günther · Mehera Hassan Ahmed Osman · Jakob Korbel · Felix Krupar · Jana Leusing · Daniela Lindner · Martin Lose · Joao da Mata · Konstanze Neumann · Markus Oermann · Emily Ryan · Rebecca Scharlach · Lisa Schmechel · Luise Springer · Robin P. G. Tech

## RESEARCH PROGRAMMES AND FURTHER PROJECTS

In the attempt to focussing our research we found that the pair of terms 'innovation and governance' with their tensions and synergies can well serve as a general orientation of our work. We have decided to take it as a guidance for the definition and implementation of our research agenda consisting of a combination of research programmes, research groups and transfer projects. Research programmes are driven by broad research questions and divided into several subtopics and research projects. Our research is being pursued in several research groups and transfer projects that contribute to the greater research questions. Research groups also conduct stand-alone short-term studies and support our efforts to transfer knowledge and build bridges between different stakeholders such as academia and industry. Thus our research strategy is both, flexible and structured. In 2017 the structuring effect of the research programmes has become more visible.

### RESEARCH PROGRAMMES

The following key topics have been identified that qualify as building blocks for a long-term research programme:



The programmes are based on HIIG's internal expertise. They cover the long-term research interests, common methodological skill sets and theoretical inclinations of the institute's members, which the institute wants to highlight to stakeholders for potential partnerships independent of specific projects or programmes.

#### I. The Evolving Digital Society: Concepts, Discourses, Structures

The digitalisation of society, politics and the economy affects the very foundations of societal life. Which theories and concepts help us to make sense of this transformation? What is the role of discourses in shaping and explaining the digital society? How will society



reorganise itself through the deployment of algorithms and artificial intelligence? What are the key (infra)structures and what is the constitution of the global digital society?

Such fundamental questions pose a challenge for empirical research. Current studies mostly offer answers to more specific parts of this puzzle. First, it is difficult to provide evidence of and explain long-term and overarching change processes. Furthermore, research also has to question whether prevalent concepts and theories are able to capture the current transformations and the emerging digital society.

Within Research Programme I we both combine existing research and initiate new dedicated studies, publications and events to address these overarching issues. In this endeavour, we distinguish two analytical levels:

- **The level of the subject matter**, i.e., the factual or assumed societal transformations and disruptions
- **The level of observation**, i.e., the articulation and explanation of these processes in public and scientific discourse

In 2017, we focused on the level of discourse and theory, and thus on the level of observation. We assume that in these times of transformation, discourses and theories do not only portray ongoing change. Rather, they contribute to shaping the digital society by setting priorities, providing explanations and politicising issues. Against this background, we have launched the high-profile lecture series *Making Sense of the Digital Society* (see below), started a series of articles, *How Metaphors Shape the Digital Society* (included in HIIG's magazine *encore* 2017, p. 8), and submitted a collaborative research proposal to the German Federal Ministry of Education and Research (BMBF) titled *AI in context. AI-based decisions in content moderation and disaster management on platforms*, which includes an analysis of public discourses on artificial intelligence.

In 2018, we will continue to pursue this line of analysis with the ongoing lecture series and a planned grant proposal for a project that will investigate the politics of technology discourses in Germany, Israel and the US. Additionally, we will start the second phase of the programme by turning our attention to key areas of transformation. The initial focus areas will be platforms (cf. projects below) and automation. We will complement these foci with additional areas over the course of the year. Selected projects in this research programme are described below.

#### Making Sense of the Digital Society – A high-profile lecture series

The rationale of our high-profile lecture series is to address key overarching conceptual questions of Research Programme I by inviting leading European intellectuals to present their perspectives on the evolving digital society. The lectures series is co-organised with

and funded by the German Federal Agency for Civic Education (bpb). In December 2017 we launched it with an inauguration speech given by Manuel Castells. Speakers already confirmed for 2018 include Christoph Neuberger (Democracy and Public Sphere in the Digital Society), Elena Esposito (Knowledge and AI in the Digital Society), Marion Fourcade (The Ordinal Society? Ordering in the Digital Society) and José van Dijck (The Digital Society as Platform Society). With this project, we seek to contribute to a European perspective on the processes of transformation that our societies are currently undergoing. We plan to publish an edited volume based on the lecture series in 2019.

### Platform governance

We consider platforms a core area of transformation in the evolving digital society. While the term platform itself is contentious needs more scrutiny, we observe the consolidation of few dominant intermediaries that facilitate communication and transactions between different kinds of users and markets. Thus, we increasingly turn our attention to these platforms and their governance in phase 2 of the research programme. The Platform Governance project bundles a set of activities at the institute that focus on norm-building processes both of and by platforms. A PhD project on the role of private platforms in governing free speech and social communication online is in its final stage. We have given presentations at key academic conferences (Association of Internet Research 2017; German Association for Media and Communication Research (DGPUK)) on concepts of and empirical findings on platform governance, and we have contributed to substantiating the heated debate on the German Network Enforcement Act (NetzDG). Developing a new concept of governance for digital communication, Christian Katzenbach's book *Die Regeln digitaler Kommunikation* (The Rules of Digital Communication) was awarded the dissertation award Media-Culture-Communication by the DGPUK.

In 2017, we have also started to address the nexus of platforms and artificial intelligence (AI). Faced with increasing communication volume and calls for accountability, platforms turn to AI for ordering and governing the transactions they enable. Kirsten Gollatz has started to work on the turn to AI in content moderation, giving presentations at an OSCE conference in Serbia and contributing to a workshop held by the Volkswagen Foundation. Led by Wolfgang Schulz, HIIG hosted the inaugural workshop of the Network of Centers' (NoC) European hub, titled Algorithmic Decision Making and its Human Rights Implications, and contributed to the NoC 2017 annual conference, the theme of which was Artificial Intelligence and Inclusion (see below). Following up on this, we will host an interdisciplinary workshop together with the NGO Access Now in March 2018. The workshop will address in detail the opportunities and perils of the increasing deployment of AI in curating content online. Additionally, we plan to submit a project proposal to the German Research Foundation (DFG) addressing platform governance from a comparative perspective, by looking at emerging rules on different levels and dimensions (national/international, law/informal norms, discourses, algorithms).

### Competing and complementing – The relation of co-determination and new participatory platforms within companies (KOKOS)

KOKOS is another newly started project addressing the focus area of platforms in the digital society. This project researches workers' participation on digital platforms by examining new forms and processes of employee participation. In Germany co-determination (Mitbestimmung) defines a set of employee rights including the possibility of actively shaping one's own work environment. In the context of digitalisation, numerous companies are introducing digital platforms that are intended to strengthen the participation of employees, e.g., by using enterprise social software. Using a multi-method approach, we aim to identify the potential of employee participation on digital platforms. Further, we plan to highlight the relationship between works councils and these platforms and to draw up recommendations for all relevant stakeholders. With our project, we contribute to the debate on Arbeit 4.0 (Work 4.0) by being part of the research network Digitalisierung, Mitbestimmung, gute Arbeit (Digitalisation, Co-determination, Good Work) sponsored by the Hans Böckler Foundation, an institute of the German Federation of Trade Unions (DGB) that promotes and sponsors research. The project is being conducted in close collaboration with the FZI Forschungszentrum Informatik (FZI Research Center for Information Technology) in Berlin. KOKOS just started in mid-October 2017. Currently, we are writing a literature review, preparing expert interviews and planning a symposium on online participation at the Center of Advanced Internet Studies (CAIS) in Bochum for February 2018.

## II. The Governance of Data-Driven Innovation and Cybersecurity: What is the relationship between data, actors, and infrastructures?

Information technologies are based upon data and give data a key role in the digital society. Yet our understanding of the increasing relevance of data is far from sufficient. Better access to data, information, education and knowledge, transparency and networks empower the individual and bring about opportunities for our model of democracy; they may profoundly change governance along with relationships in the public and private sectors. On the one hand, big-data-based analytics, predictive policies and internet of things (IoT) applications allow for more efficient business and public administration; on the other hand, new modes of surveillance challenge established relations in labour, health, insurance and security systems and markets, and threaten individual freedoms and trust. The internet of things will multiply the amount of data. With increasingly innovative analytics and uses of data, data will become more and more valuable in the digital society. Thus, we need to rethink our institutions of data ownership and data flows, our data infrastructures and security as well as our approaches to the protection of personal data and privacy, personal freedom and political participation in a globalised society. This will lead to more in-depth research

on particular aspects of change that have become apparent from three angles: actors, relationships and governance.

In 2017, HIIG researchers participated in academic conferences, organised various events and conducted several research projects. These activities included talks on the interplay of data protection and data-driven innovation given by Max von Grafenstein at the National Congress for Personal Health in Istanbul and the MyData Conference 2017 in Tallinn. In cooperation with New York University (NYU), HIIG has organised the first in a series of two conferences, titled Privacy and Cyber Security on the Books and on the Ground. Bringing together experts on cybersecurity, data protection and governance, lawyers and representatives from academia, politics, security agencies and businesses, the conferences address a pressing challenge in the transatlantic relationship: concepts of, tensions between and synergies of cybersecurity and data protection. With two workshops on Privacy, Data Protection and Surveillance hosted in 2017, HIIG's interdisciplinary workshop series with a particular focus on early-stage researchers presenting work in progress and ample time for discussions has been successfully established as an important event for German-speaking researchers in this field. HIIG also built upon last year's legal hackathon Privacy and Security by Design in Smart Cities by testing a new format: the game jam Unveil the Privacy Threat. Last but not least, HIIG started several research projects, some of which are described below.

#### IoT and eGovernment

The IoT and eGovernment project was successfully completed in July 2017. We examined how governments themselves can use IoT applications and what role regulation plays in that regard. In February 2017, we organised a conference called IoT & Trust. This conference dealt with major issues of how trust and distrust influence the adoption and the use of the IoT. The conference combined different disciplines and also inputs from practitioners. We have published the results in the IOT & TRUST – Researchers Conference Booklet. The questions identified during the conference feed into a new project on digital public administration that will continue the research. Christian Djeffal published *Leitlinien der Verwaltungsinnovation und das Internet der Dinge* (Principles of Renewing Public Administration and the Internet of Things) in an edited volume. It deals with the question of whether the IoT will lead to a new public administration and how the adoption of the technology can be influenced. It also looks at legal and other ways in which government and the administration could influence the adoption of technology, including organisational issues. In the lead-up to Germany's general election, Christian Djeffal summarized the results of the research as the op-ed *Schafft 15 Digitalministerien* (Create 15 Ministries for Digitisation) in *Süddeutsche Zeitung*, one of Germany's most influential newspapers.

## Big Data & Nudging

The interdisciplinary research project Big Data & Nudging started in October 2017 and will be completed in the first quarter of 2018. The project brings together perspectives from the social sciences, economics, informatics and law in order to assess how individual instruments of big-data-based behavioural regulation can be categorised, which implications these instruments have for both the individual and society, and whether and to what extent these instruments can be put to legitimate use. The research project aims at bringing together the fragmented discussions on big-data-driven behavioural regulation, relating the results of these debates to each other and thus identifying both new research questions and needs for political action. The results of this project will be used to formulate recommendations for a regulatory framework, to propose ways of public political outreach and to research policy.

## Privacy by Design in Smart Cities

The interdisciplinary research project Privacy by Design in Smart Cities has been running since June 2017 and will be completed in the first quarter of 2018. The project treats the question of how to build smart cities in a privacy-friendly way when more and more movements and human actions are tracked by means of public WiFi and camera systems. Building upon a data protection impact assessment, specific questions are: How can we develop the adequate infrastructure in smart cities? How can citizens and employees of data-driven businesses be made aware of privacy and security risks? How can state-of-the-art privacy and security strategies be combined with creative thinking? One part of the research project is the game jam Unveil the Privacy Threat in which six groups of game designers and privacy and security experts elaborated on serious games as an educational tool to better sensitise people to privacy and security-by-design risks caused by public WiFi systems in a smart city environment. Be it employees in data-driven companies or consumers of data-driven services, the human factor is an important link in the data protection and security chain. However, experience has shown how difficult it is to make consumers as well as employees working with data aware of their importance in this chain. The complex and abstract nature of data protection and security is often considered to be one major reason for these challenges. Building on experiences in the field of serious games showing that they serve as a great educative method for teaching complex matters, the institute decided to engage in research on serious games as an educational tool for data protection and security purposes.

### III. Knowledge, Education, Innovation: What are emerging patterns of research and knowledge transfer in the digital age?

This research programme has its roots in the internet-enabled innovation department and its lead project, Open Science, at HIIG. The Open Science project, which has won several awards and significantly influenced the political and scientific discourse on open science, looks at how scientific knowledge creation and dissemination change due to digitisation. Key studies of the Open Science project have been published in renowned journals, such as Science, Nature Communications, PLOS One, and Public Understanding of Science. One of two key learnings of the project is that even open science is a science-centric discourse that fails to understand openness as the impact of science outside academia, for example, on political and economic decision-making and public opinion-making. The second learning is that the linking between knowledge creation, knowledge requirements, and education in the digital age is still missing.

Consequently, the Knowledge, Education, Innovation research programme looks at knowledge from a more holistic viewpoint, acknowledging that knowledge creation, management and dissemination must be understood in terms of institutional and organisational change and modern communication infrastructure as well as changing communication habits.

As of 2017, the research programme started focusing on two areas:

- **Knowledge transfer and scientific impact**, which addresses the impact of science in society and knowledge transfer between academia and industry
- **Innovation in education**, which centers on social and technological innovation in teaching at schools and universities

Drawing lessons from our own research, we try to combine excellent research with practice, products, services and teaching. This said, we published three research articles in peer-reviewed journals in 2017.

In 2017 we furthermore launched [elephantinthelab.org](http://elephantinthelab.org), a blog journal on science and innovation policy. Elephant in the Lab combines elements of classical scientific communication (e.g., DOIs) with elements of the blogosphere (e.g., fast-track publishing, feedback, short pieces). In 2017 we wrote most of the articles ourselves, including an extensive bibliometric analyses. In 2018 we want to draw more contributions from external resources and try out new formats, such as video and audio.

We also held the Impact School, an annual summer school that taught PhD students and postdocs the skills necessary in order to increase the societal impact of their research. The Impact School lasted three days, with each day covering another societal sphere (e.g., politics, business and economics, media and society). The Impact School is sponsored by the Leibniz Association, also for 2018.

Finally we concentrated on raising third-party funding for projects in both focus areas, mainly from public research funders. We submitted eight funding applications, three of which were successful. Two applications were rejected and the remaining three are still pending.

Among the three funded projects is DREAM, a two-year venture in which we design an open access app. The project is a collaboration with the Karlsruhe Institute of Technology. Another third-party funded study for the Stifterverband der Deutschen Wissenschaft (Donors' association for the promotion of humanities and sciences in Germany) focuses on the macro-effects of open science on economy and business. Here we collaborate with the Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (German Centre for Higher Education Research and Science Studies) (all focus area 1). In focus area 2 (Innovation in Education), we received funding from the Commerzbank Foundation for a junior professorship on innovation in higher education. This project is a collaboration between HIIG and Humboldt-Universität zu Berlin.

## FURTHER RESEARCH GROUPS

### Entrepreneurship and Innovation

Building on prior research on internet-enabled startups, which has investigated supporting and hindering factors of entrepreneurship, we will extend our research into the customer-centric innovation of established business models and the scaling of new business models, open innovation in the hardware sector, and platform business models. This year, we attended several highly regarded conferences, including the Strategic Management Special Conference and the R&D Management Conference, with presentations on user-centric business models. We also published scientific articles in the journal *Creativity and Innovation Management* and summarised our findings in the book *Entrepreneurial Innovation and Leadership* (Richter, Jackson, Schildhauer), which will be published in 2018 by Palgrave Macmillan. Additionally, three dissertations have been finished: *How do early ventures develop their business models* (Martina Dopfer), *How to finance hardware startups* (Robin P.G. Tech), and *The regulation of data driven innovation* (Maximilian von Grafenstein).

Two further projects have been developed within the context of entrepreneurship and innovation:

**How to collaborate with startups?** Cooperations between startups and established companies offer great potential for both sides, but some barriers still need to be removed so that both sides can work together efficiently. Put simply, when traditional established companies meet young, innovative startups, two worlds collide. This year, we hosted different events and experimented with various formats to conduct our research on collaboration models between startups and mid-sized companies, including one roundtable at HIIIG, 11 workshops at Spielfeld and Tech Open Air and more than 20 interviews in the United States with experts from startups, mid-sized companies and corporates as well as specialised intermediaries. We also published the final report of our study, *Collaboration between startups and mid-sized companies. Learn. Match. Partner.*, on 15 November 2017.

**Kompetenzzentrum 4.0:** This research project focuses on the digitalisation of small and medium-sized enterprises (SMEs) and includes various research questions, such as: How can SMEs and startups learn from each other when it comes to digitalisation? How do SMEs learn and implement innovation and digitalisation processes? How do SMEs search for knowledge and new information and transform it into organisational and business model development? What are the favoring and hindering factors for digitalisation in SMEs? This year we created a number of communication assets that help SMEs understand digitalisation, and digital business models in particular, e.g., video case studies with best practice cases from *digital* SMEs, detailed flyers describing business model design methods and a number of blog articles on digitalisation in SMEs. Additionally, we led two projects with local SMEs to develop customised digitalisation solutions. We also used the data and experience gathered during the project to publish a number of conference papers at internationally renowned conferences such as the ISPIM Innovation Conference. Furthermore, we published the results in practitioner-oriented outlets such as *Wissenschaft trifft Praxis* and a book chapter in *Digitale Transformation in Unternehmen gestalten*.

**Crunching internet freedom: The role of numbers in internet governance**

As the impact of corporate and legal rules for the internet expands, concerns over the protection and respect of users' fundamental rights have been voiced. Calls for more transparency on decision-making have become a widespread demand. In response to these demands, internet companies, for instance, have started to report on the number of government requests to remove content and to hand over user data. Also today, a number of global indices and rankings help to inform the public about the state of internet freedom. What these examples share is the practice of using numbers to measure highly complex forms of content regulation. In the context of a widespread proliferation of quantified knowledge production, this project scrutinises the emerging routines of dealing with numbers in the global discussion on internet freedom.



While the discussion on content regulation is often framed by human rights principles, such as freedom of expression and the protection of privacy, this project builds on sociological work on the role of numbers in transnational governance processes. Along this line, we presented the paper *Measuring User Rights Online: Numerical Rankings as a Form of Governing Internet Freedom* at the Annual Conference of the Canadian Sociological Association 2017 in Toronto this year. As part of an ongoing collaboration with the Ranking Digital Rights project, Kirsten Gollatz teamed up with visiting researcher Lisa Guterforth to experiment with the Ranking Digital Rights Corporate Accountability Index methodology. Researchers gathered in May 2017 in Berlin to apply the index to a group of European telecommunications companies. The event, Data Sprint on Digital Rights in the Telecom Sector, organised with the WikiRate Project e.V., gave participants a chance to explore the methodology first-hand and to test its suitability for measuring European telecommunications companies. The workshop also allowed researchers to discuss issues around the need for companies to disclose more about their policies and practices affecting users' freedom of expression and privacy.

#### User Innovation in the Energy Market

In our research project User Innovation in the Energy Market, Hendrik Send and Matti Grosse are looking at user participation in collaborative innovation structures and the role of internet resources herein. The researchers have identified three different types of participation: The implementation of existing smart home applications, the active participation in energy infrastructure projects (co-creation), and user-driven innovation.

The current survey about the energy future in Germany with over 1,100 respondents shows the rapid progress of smart energy technology. Although smart energy technology has high entry barriers on a technical, physical, regulatory and financial level, over 80% of respondents report that they had an idea for an innovation in the energy market and 40% report having implemented a new solution themselves. These innovators use internet platforms such as co2online or Haustechnikdialog as reliable sources of information and, additionally, as a means to support the distribution and exchange of experiences between users.

The project studies the active participation of people in innovation processes using a case study involving the development of the self-sufficient village of Feldheim in Brandenburg. Due to the close collaboration between the local energy company, local politics and residents, the location is a suitable example of how the interaction of acceptance and participation can lead to the successful realisation of infrastructure projects. This study has shown that the exchange of knowledge and experiences with other interested parties in online communities significantly enhance the efficiency of collective innovation processes. It is foremost users with an outstandingly high level of innovativeness, activity and willingness to cooperate who drive product development forward.

## Open! – Methods and tools for community-based product development

The joint French-German project Open! is the first DFG-funded research project at the HIIG. It began in March 2016 and is led by Hendrik Send. The project aims to understand open source product development, illustrate the emerging practices, model the associated development process and provide support in the form of methods and business models. It focuses on investigating methods, tools and business models for open source innovation within firms. Shortened innovation cycles made possible by digital tools and the demand for product personalisation motivate firms to increasingly open themselves through platforms that can manage in and out knowledge flows. Given the lack of research on this topic, especially regarding open source hardware innovation, our researchers aims to understand open source product development and show concrete evidence of this emerging practice, model the open source hardware product development process, and provide concrete support in the form of methods and IT tools that can help to shape new business practices.

In our first work package we published a review on business models for open source product development. In 2017 the research group at HIIG treated questions about the adaptability of open source innovation to the automotive industry. We collected data by interviewing 18 industry representatives of established players (Renault and Volkswagen AG) as well as startups (Local Motors, Kreatize, OSVehicle). We also organised the roundtable Disrupted!, which took place at HIIG on 13 September 2017 and brought together stakeholders of the automotive industry to discuss open source hardware innovation enablers, barriers and strategies. Building on these insights, the Open! project will focus in 2018 on the business model framework for open source hardware innovation.

## Global Constitutionalism and the Internet

As part of HIIG's research programme on the evolving digital society, the research group Global Constitutionalism and the Internet focuses on new legal and institutional approaches to transnational and global governance for a digital society. The project aims at translating consented constitutional principles such as human dignity, fundamental rights and freedoms, democracy and participation, separation of powers and the rule of law into specific institutional arrangements that can claim legitimacy on different political levels. The internet in particular offers prospects for achieving a form of global democracy, as HIIG director Ingolf Pernice has elaborated in a contribution to a recent edited volume, *Digital Democracy in a Globalized World*, based on the principles of multilevel constitutionalism, informed by experiences with internet governance, and drawing on notions of global citizenship. The particular relationship between eDemocracy, eParticipation and global citizenship was addressed in a series of workshops in 2017, bringing together academics and practitioners in order to explore the potentials of trustworthy, decentralised technological solutions like blockchain-based digital identities. Some further ideas on the governance aspects with a focus on cybersecurity were presented at a UNESCO conference

in April 2017 on international peace and security in cyberspace in Paris. Ingolf Pernice addressed the particular challenges of managing cyber-risks in the digital constellation from a constitutional perspective at an interdisciplinary conference in June 2017 in Barcelona, Spain.

To dive more deeply into global governance issues and to address substantive questions concerning surveillance and privacy, data protection and cybersecurity, the Global Constitutionalism and Internet project launched a spin-off project titled Global Privacy Governance. Members of both projects organised and hosted an interdisciplinary conference at our institute in November 2017 for researchers and practitioners on privacy and cybersecurity challenges in transatlantic relations. Another offspring project focuses on the impact of the emergence of global constitutionalism on the role and concept of the state (The State 2.0). The latter includes a submission by Christian Djeflal for a grant on a project regarding digital administration as a follow-up of the IoT and eGovernment project.

### Global Privacy Governance

As a part of the HIIG research programme on the relationship between actors, data and infrastructure, our research on global privacy governance focuses on processes establishing standards and rules on surveillance, privacy, data protection and cybersecurity. In cooperation with the Center on Law and Security at the NYU School of Law, we hosted a transatlantic conference Privacy and Cyber Security on the Books and on the Ground. It brought together academics, public officials, business representatives and civil society actors in order to address a central and highly topical challenge in transatlantic relations: the tension between cybersecurity and data protection. The two-day conference helped deepening the understanding of different concepts by integrating the relatively independent discourses in the USA and Europe on this issue. A follow-up conference, planned for summer 2018 in New York, will focus on developing solutions and strategies for the problems we identified. The strategic goal is to establish a transatlantic working group on privacy and cyber security issues integrating different disciplinary as well as theoretical, normative and practical perspectives. Starting with a small workshop just two years ago, we have since successfully established an interdisciplinary biannual workshop series. Its aim is to bring together especially early-stage researchers in the broad field of privacy and data protection research and surveillance studies in order to shed light on recent developments in theory and practice, law and technology, underlying assumptions, as well as potentials for cooperation across disciplinary boundaries. We also participated in the Transatlantic Cyber Forum (TCF), organised by the Stiftung Neue Verantwortung as an intersectoral network of experts from civil society, academia and the private sector working in various areas of transatlantic cybersecurity and cyber defence policy. The aim of the dialogue is to reach a transatlantic understanding on issues such as the regulation of state surveillance, encryption policy and vulnerability exploitation, cooperation and coordination in the information security realm, and offensive cyber operations.

## dwerft

In 2017 we completed the dwerft project, a collaborative research effort starting in 2014 on new IT-based film and television technologies. The mutual vision of this alliance has been to cross-link the production, archiving and distribution processes of audiovisual media content. Its core objective was to interconnect all these processes without any loss of data through open, interoperable standards. The HIIG contributed to three joint projects: Orphan Works, Distribution and Knowledge Transfer.

For the Orphan Works project, we analysed the legal requirements for using works whose rightsholders are unidentifiable or untraceable. This issue is important for the development of adequate technologies to further the automation of rights management. Since the European Orphan Works Directive does not permit the creative use of orphan works, the project also analysed the general copyright framework for reusing (orphan) film works. The Distribution project focused on semantic and explorative search engines and intelligent recommendation systems. The Knowledge Transfer project explored new business models of content production and distribution that arise due to changing usage behaviour and lead to a high level of user integration. The project further collected findings from all dwerft sub-projects to allow a constant transfer of information and communication between all the disciplines and projects involved. In May 2017, we presented our findings at the dwerft Closing Conference to researchers, policymakers and film business experts. We also published scientific articles in the *Journal of Intellectual Property Law & Practice*. Henrike Maier finished her dissertation on remix videos and hosting platforms at Humboldt-Universität zu Berlin. Urs Kind received his PhD for his dissertation *Branded content and user integration as business model for the production of online video* from Berlin University of the Arts.

## Pelagios

The Pelagios project is an international research project, in conjunction with the University of Exeter, The Open University, the Austrian Institute of Technology, and the School of Advanced Studies, University of London. Pelagios (Greek for: of the sea) aims to explore the connections that can be built between historical materials through their common reference to particular places, using linked open geodata and the semantic web. Between 2011 and 2016, with support from the A. W. Mellon Foundation, the UK Joint Information Systems Committee (JISC) and the Arts and Humanities Research Council (AHRC), Pelagios Commons became one of the foremost drivers of linked open data (LOD) in the humanities. The linked data model which informs our technical work is based on the concept of historical gazetteers – geographical dictionaries or directories used in conjunction with maps or atlases from a particular period. This year, we have funded projects to create gazetteers that have allowed users to create links between sources from a variety of different regions and periods, including 13th-century Ethiopia, ancient Cyprus and the biblical-era Holy Land.

These projects, and others, encourage researchers both to reconsider how ancient people considered their world and how they defined the boundaries of their territories and to track the movements of people and knowledge across time and space. In 2017, our researcher Rebecca Kahn focused on evolving from a series of specific partnerships to a more open community, in which the role of the principal investigators has increasingly provided direct and indirect support to facilitate the work of others. This has been done on both social and technical levels, through micro-grants that have focused on developing resources, technical and conceptual frameworks for further investigations within the community. We have also worked to decentralise the Pelagios tool suite by making it easier to instal and combine with other digital humanities tools and approaches.

### Goodcoin

Goodcoin is developing a privacy-friendly bonus point and customer loyalty system. The team consists of computer engineers as well as lawyers who work together to ensure a privacy-preserving design and legal compliance already during development. Goodcoin aims at reconciling the frequently conflicting interests of consumers – who want informational self-determination – and retailers, who want to offer their customers a more personalised selection of products. The system enables anonymous shopping and at the same time leverages detailed statistical evaluations of the transactions within the system, helping retailers to better tailor their products. On demand, customers can also receive digital advice on products. The concepts in development are based on innovative encryption and anonymisation procedures. When paying online, customers are able to use anonymous, digital value units: the Goodcoins. The Goodcoins serve as digital coins and represent bonus points for purchases made at the same time. 2017 saw the development of a working backend prototype as well as a client software. At the moment, the system is being tested in the wild. The legal evaluation dealt with the question of compliance especially with the updated EU Payment Service Directive II (PSD II) and is in contact with the BaFin (German Federal Financial Supervisory Authority) to validate the project's business and contract model. The lead partner of the project is Humboldt-Universität zu Berlin; accompanying research is carried out in cooperation with our researcher Jörg Pohle and Julian Hölzel as well as a team of the Bonsum UG.

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## NETWORK AND INTERNATIONAL RELATIONS

### NETWORK OF CENTERS

For the Global Network of Internet and Society Research Centers (NoC), 2017 was characterised by major changes. The NoC grew even further, from 76 members in 2016 to 85 members from five continents. As the biggest research cluster in its field of studies, the NoC enables its members to connect easily and collaborate closely with researchers from all over the globe. The close relationship between the centres allows researchers to easily connect with colleagues for discussion and inspiration, and helps them to understand foreign developments. Since October 2016, the administrative lead of the network rotated to the Institute for Technology & Society of Rio de Janeiro (ITS Rio), which will coordinate the network in 2017 and 2018. The roadmap for 2017/18 can be found at [www.networkofcenters.net](http://www.networkofcenters.net).

The European members of the NoC have launched the European Hub to support scientific discussion and cooperation between internet researchers in Europe. During a roundtable in Berlin in October at HIIG, internet researchers from Europe decided to cooperate more closely on research projects, science transfer and events. The representatives of the European member research institutes within the NoC discussed, among other things, how to strengthen European cooperation and the international visibility of European internet research. The European Hub for Internet and Society Research is being created as a regional chapter of the NoC that congregates members of the Network, as foreseen in the NoC Roadmap 2017/18.

At the heart of the hub's work is independent and interdisciplinary research about the opportunities and challenges of digital technology, innovation and European society. The first steps for the newly founded European Hub will be organising regional workshops and conferences as well as developing guidelines and ethical standards for internet research. The first common research focus will be – following the global roadmap – the topic of artificial intelligence. Some first steps have already been taken to facilitate exchange between outstanding researchers on the effects of artificial intelligence on human rights: HIIG and Hans-Bredow-Institut for Media Research (HBI) organised the workshop Algorithmic Decision Making and its Human Rights Implications.

In November the NoC met in Rio de Janeiro to identify, explore and address the opportunities and challenges of artificial intelligence and inclusion. The event, co-hosted on behalf of the NoC by the Institute for Technology & Society of Rio de Janeiro (ITS Rio) and the Berkman Klein Center for Internet & Society at Harvard University, and part of the Ethics and Governance of AI initiative, brought together representatives from the NoC Centers from around the globe as well as invited guests and collaborators from advocacy,

philanthropy, media, policy and industry to address both the opportunities and challenges of AI-based technologies through the lens of inclusion, broadly conceived.

## ACADEMIC VISITOR PROGRAMMES: FELLOWS AND VISITING RESEARCHERS

Since 2013, we have been offering academics from Germany and abroad the opportunity to join us for a research stay in Berlin. Academics who wish to spend some months at the HIIG can apply for the annual Internet and Society fellowship programme or come to us as visiting researchers all year round. In 2017, we were able to further develop both programmes and to establish them as two pillars of the institute's Academic Visitor Programme.

The annual Internet and Society fellowship is particularly well established in the international context. In 2017, applicants from 11 countries submitted their documents, coming from as far away as Australia and Brazil. We chose four fellows to team up with researchers from each of our then four research areas. Since one fellow had to cancel, we eventually offered three fellowships across the year ranging from three to six months in length. We were tremendously delighted to have Sharon Bar-Ziv, Eduardo Magrani and Chiara Poletti join us as HIIG Fellows in 2017. They work at research institutions in Israel, Brazil and the United Kingdom, respectively. The fellows organised their research stay in close cooperation with their respective host at HIIG. As we continue to grow our network of internet and society researchers, we are confident that we will further strengthen our ties with all fellows in the future. As such, we were already able to welcome Sharon back for a NoC event in October.

Another way for academics to temporarily join HIIG is to come as a visiting researcher. The year 2017 proved this programme to be a successful endeavour. By the numbers, the institute welcomed nine researchers coming from a variety of disciplinary backgrounds and countries, including Turkey, Austria and the USA. Further, 2017 marked a year in which our visiting researchers were extremely visible with their topics, also beyond the institute. Deserving prominent mention is professor Melih Kırıldıođ, who took part in the net policy conference re:publica in Berlin and reported about the situation for academics in Turkey through public writings. Also, Meropi Tzanetakis raised a lot of public attention for her research project, which investigates the of darknet drug markets. And finally, the programme's success is also based on long-term cooperation, which is why we look forward to working even more closely with a former visiting researcher next year in the form of a project association.

## PROMOTING UP-AND-COMING RESEARCHERS

In 2012, HIIG established a doctoral programme to promote up-and-coming academics in the field of internet research. The programme has grown over the years up to more than 20 doctoral students. In 2017 three PhD theses were published, and six further candidates submitted their work. Currently, there are five doctoral students at HIIG. All doctoral students are given the opportunity to organise workshops concerning their own topics of interest and to attract (international) researchers to HIIG. In 2017, up-and-coming researchers organised workshops and conferences (IoT & Trust Conference, Tech Open Air sessions, automotive roundtable Disrupted!), invited guest researchers, organised lunch talks or introduced new formats like a game jam.

The strong integration of HIIG's doctoral students within the scientific community and the success of their networking activities should also be highlighted: the past year was characterised by several invitations to national and international academic events, paper presentations and publications. Many of HIIG's doctoral students took advantage of the opportunities to actively participate in international conferences, used the travel fund for research stays abroad, and participated in training sessions and workshops at Berlin's universities and graduate centres. As most of the theses came to an end, in 2017 the soft skills training for doctoral candidates focused on presentation skills, academic writing and support in visual communication.

## DISSERTATIONS FINALISED BY OUR DOCTORAL STUDENTS IN 2017

Martina Dopfer

### HOW DO EARLY VENTURES DEVELOP THEIR BUSINESS MODELS

According to the European Startup Monitor (2015) ventures, or startups, foster innovation by means of disruptive technologies and/or business models. Martina Dopfer's doctoral dissertation explores how early ventures develop their business models. Although business models have been an important topic in academia and practice since the 1990s, the concept still lacks coherence. In particular, the evolution of early venture business models has received little scholarly attention. Martina's doctoral dissertation consists of four articles. The first article identifies four types of entrepreneurs based on a multiple case study. It elaborates on their different approaches to developing the first business model, which are vitally shaped by prior related knowledge and ideal types of business models. The second article describes how ventures can achieve the same value proposition with different resources by using clever business model adaptation. The third article provides more clarity on the existing concepts of incubation models. The final article offers a framework of cognitive capabilities that help to systematically advance business model development and innovation. Overall, the dissertation provides significant contributions to the literature. It is among the first to investigate how activities, processes and cognition impact how business models come about. It presents frameworks on business model development and details the related activities and processes from a cognitive perspective. It also tackles many of the needs and challenges early ventures face while developing their business models. Finally, it depicts how scarce resources support adaptations of venture business models.

The dissertation was published in September 2017 and is available online at [www1.unisg.ch](http://www1.unisg.ch).

Benedikt Fecher

### A REPUTATION ECONOMY – THE VALUE OF DATA IN ACADEMIC RESEARCH

Open access to research data has been described as a driver of innovation and a potential cure for the reproducibility crisis in many academic fields. Against this backdrop, policymakers are increasingly calling for research data and supporting material to be made freely available online. Despite its potential to further scientific progress, widespread data



sharing in small science is still an ideal practised in moderation. In his dissertation, Benedikt Fecher explores the question of what drives open access to research data by using a mixed method approach consisting of a systematic review of the published literature on the topic, interviews with secondary data users, and a survey of 1,564 mainly German researchers across all disciplines. Benedikt Fecher is able to show that, regardless of their disciplinary background, researchers recognise the benefits of open access to research data for both their own research and scientific progress as a whole. Nevertheless, most researchers share their data only selectively. The results show that individual reward considerations conflict with widespread data sharing. Based on these results, Benedikt Fecher presents policy implications that are in line with both individual reward considerations and scientific progress. Benedikt Fecher's research was incorporated within the Leibniz Research Alliance Science 2.0 project.

The dissertation will be published in German under the title *Eine Reputationsökonomie: Der Wert der Daten in der akademischen Forschung* in January 2018 with Springer VS.

Maximilian von Grafenstein

#### THE PRINCIPLE OF PURPOSE LIMITATION IN DATA PROTECTION LAWS: THE RISK-BASED APPROACH, LEGAL PRINCIPLES AND PRIVATE STANDARDS AS ELEMENTS FOR REGULATING INNOVATION

This thesis examines the principle of purpose limitation provided for by data protection law from the perspective of a regulation of innovation. This approach examines both the risks caused by innovation and whether risk protection instruments are appropriate with respect to their effects on innovation processes. In light of this approach, this thesis examines, first, the function of the principle of purpose limitation in light of Article 8 of the ECFR, and second, which regulation instruments serve best, when implementing the principle of purpose limitation in the private sector, in order to balance the colliding fundamental rights of the data controller and the individual concerned. Pursuant to the previous analysis, the principle of purpose limitation is a regulation instrument that seeks to protect the individual's autonomy against the risks caused by the processing of data related to him or her. In this regard, the first component of the principle of purpose limitation requires the controller to specify the purpose of the data processing. This requirement is a precautionary protection instrument obliging the data controller to discover specific risks caused by data processing against the individual's fundamental rights to privacy, freedom, and non-discrimination. In contrast, the second component, i.e., the requirement to limit the data processing to the preceding purpose, aims to limit the risk caused by the later data processing to the risks previously discovered. Whether a risk caused by the later processing of personal data is compatible or incompatible with the risk previously discovered depends, again, on the individual's fundamental rights to privacy, freedom, and non-discrimination. However,

as a legal principle, the principle of purpose limitation not only protects an individual's autonomy but simultaneously leaves sufficient room for data controllers to find the best solution for protection with respect to the particularities of the specific case. This scope of action enables, combined with co-regulation instruments, data controllers to turn the principle of purpose limitation into an innovation-enhancing mechanism.

The dissertation will be published in February 2018 with Nomos.

Adrian Haase

#### COMPUTER CRIME (CYBERCRIME) IN EUROPEAN CRIMINAL LAW. ALLOCATION OF COMPETENCES, HARMONISATION AND COOPERATION PERSPECTIVES.

With regard to combating computer crime (cybercrime), it is agreed that the divergency of the place of action and the place of effect requires both transnational cooperation between law enforcement agencies as well as the harmonisation of criminal law. Article 83(1) of the Treaty on the Functioning of the European Union (TEFU) provides the essential legal foundation in the area of regulation of the European Union. Adrian Haase assesses the existing EU directives on cybercrime and develops a network-specific definition for cybercrime to facilitate the demarcation of European and national competences. His findings include guidelines for future legislative acts as well as executive cooperation mechanisms that might be fruitful for other transnational areas of crime.

The dissertation was published in German under the title *Computerkriminalität im Europäischen Strafrecht. Kompetenzverteilung, Harmonisierungen und Kooperationsperspektiven* in 2017 with Mohr Siebeck.

Rebecca Kahn

#### SMUDGES ON THE GLASS: LOCATING AND TRACING THE MUSEUM IN THE BRITISH MUSEUM'S DIGITISED COLLECTIONS

This thesis examines how digitisation affects and changes the established meanings embedded in museum collections, and looks at evidence of digitality in the resulting online collections, with a focus on the British Museum in London. Taking an approach grounded in both the digital humanities and museum studies, this research works from the position that digitisation is not a neutral, technical process, but one that has ontological implications for the collections being transformed. The research considers the digitisation of individual objects, knowledge infrastructures (in the form of database design), records and catalogues, and the Museum's online network. It argues that digitisation is not a panacea for the

problems of authenticity, authority and representation in cultural heritage collections, and can, at times, magnify the narrative silences and reinforce the unassailable, authoritative position of an institution. The research concludes with the proposition that new models of knowledge infrastructures, such as those of boundary infrastructures, might help to resolve the paradoxical tensions facing museums undergoing digital transformation.

The dissertation was submitted and accepted in March 2017 and can be found in the King's College London library electronic thesis repository.

Urs Kind

#### ONLINE VIDEO AS BRANDED ENTERTAINMENT IN GERMANY – BUSINESS MODELS FOR THE PRODUCTION AND MEASURABILITY OF USER ATTITUDES

This dissertation investigates the conditions for branded entertainment as a business model for the production of online video content in Germany. Looking at intermediary-vertical media networks, the dissertation identifies strategies of user integration in companies and develops a model for measuring the attitude towards the advertisement (Aad) as part of the effectiveness of advertising. Located in the field of media economics, this work draws on research on both online video marketing and content marketing. The distribution of media content as part of a marketing strategy via digital platforms and the technical feedback mechanisms implemented on these platforms give rise to challenges for production companies and brands. Interactive communication with the users plays a pivotal role for product development and the evaluation of marketing activities and more. Based on metadata (likes, comments, etc.) that is provided by the users publicly, this work generates new parameters for measuring the effectiveness of advertising. The proposed model goes beyond experimental tests and counting viewing statistics to provide deeper insights. The analysis of user comments reveals that user attitudes towards the ad can be influenced positively by transparently and explicitly communicating the intended communication goal and by ensuring a large overlap between the testimonial and the brand. The theoretical implications are that there are further factors for user acceptance in the field of content marketing that need to be considered. The practical implications for production companies are that there is a close connection between production and distribution, various outsourcing processes, and a higher weighting of the marketing activities.

The dissertation will be published in German under the title *Online Video als Branded Entertainment in Deutschland – Geschäftsmodelle für die Produktion und Messbarkeit der Nutzereinstellung* in 2018.

Sebastian Leuschner

#### SECURITY AS A PRINCIPLE. A DOCTRINAL RECONSTRUCTION IN EUROPEAN FUNDAMENTAL RIGHTS LAW EXEMPLIFIED BY CYBERSECURITY.

The law thesis borrows constructivist theories from political science (the Copenhagen School's securitisation theory) to enquire into what security actually means as a legal concept of fundamental and human rights law. On the one hand, on a practical level, public security is seen as a reason to justify the infringement upon human rights in a proportionate manner. But on the other hand, human rights can also entail positive obligations, requiring the state to actively take security measures. At least some voices in the legal discourse, and recently even the European Court of Justice (with regard to Article 6 of the EU's Fundamental Rights Charter), call for a right to security. Following the interdisciplinary approach of the thesis, however, security can only be defined as a social and cultural construct whose meaning may change over time. This thesis therefore challenges the idea of a fundamental right to security and instead conceptualises security as a mere fundamental rights principle in the sense of Article 52 (para. 5) of the Charter. According to this approach, Article 6 of the Charter does not provide a right to security that legally enforceable by individuals, but nevertheless obliges public authorities to ensure the security of its citizens as mere objective law. In a second step, the dissertation then applies these findings to the field of cybersecurity, where – according to Copenhagen School theorists – recently articulated threats to cybersecurity seem to be heavily socially and culturally construed. Because of this, existing references to assumed positive obligations derived from fundamental rights law in this field can be easily challenged.

The dissertation was published in German under the title *Sicherheit als Grundsatz. Eine grundrechtsdogmatische Rekonstruktion im Unionsrecht am Beispiel der Cybersicherheit* in January 2018 with Mohr Siebeck.

Henrike Maier

#### REMIX VIDEOS AND UGC PLATFORMS. ANALYSING CHANGES IN THE INTERPRETATION, ENFORCEMENT, AND APPLICATION OF GERMAN AND US COPYRIGHT EXCEPTIONS DUE TO PRIVATE ORDERING

For many users, hosting platforms for user-generated content have become the primary way to distribute users' own remix videos. Contractual relations, parties from different countries, questions of liability, and automatic content filters may influence how platforms deal with uploads that reuse copyright-protected material. This dissertation employs a comparative legal approach to investigate, first, to what extent current exceptions in US and German copyright law allow remixing, and, second, the ways in which hosting platforms

as intermediaries have impacted exceptions to copyright in this area. The author focuses on the role of creative users' fundamental rights and argues that these rights allow for a broader interpretation of exceptions to copyright and require material and procedural safeguards in the take-down process.

The dissertation will be published in German under the title *Remixe auf Hosting-Plattformen* in 2018 with Mohr Siebeck.

Jörg Pohle

#### DATA PROTECTION AND DESIGNING TECHNOLOGY: HISTORY AND THEORY OF DATA PROTECTION FROM A COMPUTER SCIENCE PERSPECTIVE AND CONSEQUENCES FOR DESIGNING ICT SYSTEMS

This thesis uncovers the history of ideas and the historical construction of the data protection problem and of data protection as its (abstract) solution, including the architecture of its legal implementation, in order to critically assess this construction and to draw conclusions for the design of ICT systems. The thesis reveals the manifold aspects which underlie the analysis of the data protection problem – from concepts of humankind and society, organisations, information technology, and information processing, to concepts, schools of thought, and theories within informatics, information science, sociology, and law, to scientific and pre-scientific assumptions and premises and how they have influenced the specific solution to this problem. Based on a critical assessment of this historical construction, the thesis concludes that data protection must be rederived as a solution to the information power problem, which has arisen through the industrialisation of social information processing. To this end, the thesis presents an abstract, state-of-the-art data protection attacker model, an analytical framework for a data protection impact assessment, and a procedural operationalisation approach illustrating both the sequence and the substantive issues to be examined and addressed in this process. The thesis then draws conclusions for the design of data-protection-friendly – and not just legally compliant – ICT systems. Further, the thesis clarifies the ways in which many concepts referred to in the privacy, surveillance, and data protection debate are invalid, outdated, or oversimplified. This includes the fixation on personally identifiable information, both in terms of the limitation of the scope of application and as a reference point for lawmaking and ICT design, the patently false but widespread assertion that sensitivity is a property of information, the naive public–private dichotomy, and the so-called privacy paradox.

The dissertation will be published in German under the title *Datenschutz und Technikgestaltung. Geschichte und Theorie des Datenschutzes aus informatischer Sicht und Folgerungen für die Technikgestaltung* in 2018.

Robin P. G. Tech

### FINANCING HIGH-TECH STARTUPS — USING PRODUCTIVE SIGNALING TO EFFICIENTLY OVERCOME THE LIABILITY OF COMPLEXITY

New ventures often struggle to convince investors of their worth and to raise private financing – even when the startup could pay market equilibrium interest rates. This applies particularly to early-stage startups that lack a historical track record and proof that their solution is marketable. The technological sophistication and complexity of a startup's products increase both information asymmetries between entrepreneurs and potential investors as well as transaction costs. Compared to other startups, high-tech startups that produce physical products are faced with the particular challenge of being innovative but less able to raise funds. This study combines new institutional and behavioural economic theories with a mixed methods approach to investigate the systemic underfunding of these startups. The dissertation examines the adverse effects of complexity, information asymmetries, transaction costs, and uncertainty on investors' decision-making. It suggests mitigating those effects by appropriate and matching signals. A sample of 903 German startups was used to quantitatively highlight the distinct financing patterns and characteristics of high-tech startups. The reasons for these patterns were investigated in a qualitative study that included 34 interviews with investors and entrepreneurs in the US and Germany and an international expert panel. The synthesis is a framework that matches complexity factors with appropriate productive signals.

The dissertation was published in February 2018 with Springer International.

Theresa Züger

### RELOAD DISOBEDIENCE. CIVIL DISOBEDIENCE IN THE AGE OF DIGITAL MEDIA

This work combines two perspectives, namely the social and activist history of digital forms of disobedience, with the ongoing discourse around civil disobedience in political theory. In the course of the internet's evolution, digital disobedience has developed in a surprisingly multifaceted nature: from cases like the BTX Hack of the Chaos Computer Club to the Cypherpunks and their effort to spread encryption, from Anonymous to Aaron Swartz or Edward Snowden. This work argues for a broader understanding of civil disobedience than the mainstream in political thinking suggests based on arguments from a radical democratic line of thinking, inspired by Hannah Arendt, Michael Walzer and Etienne Balibar. Many cases of digital disobedience reflect the spirit of this new understanding, while at the same time their digital nature provokes a new set of questions. For instance, there is the question of whether civil disobedience may be anonymous or even automated. Also: How does the internet change collective action, which is often seen as a core element

of the tradition of civil disobedience? The author discusses the choices and principles behind digitally disobedient action as well as the possibilities and limits of digital action in the context of democratic theory. She shows that civil disobedience in digital action even develops a new directness of encounter that adds a new potential to this delicate form of political action. Nevertheless, digital practices of civil disobedience are at the same time precarious and faced with new risks and challenges, like the automation of and the risk of elitist tech avant-gardes overriding the democratic spirit that civil disobedience is rooted in.

The dissertation was published in German under the title *Reload Disobedience. Ziviler Ungehorsam im Zeitalter digitaler Medien* in October 2017 and is available online at [edoc.hu-berlin.de](http://edoc.hu-berlin.de).

## TRANSFER OF RESEARCH THROUGH EVENTS, PLATFORMS AND COMMUNICATION

Throughout the last years, HIIG has established itself as an interdisciplinary and international research institute and a source of information and knowledge on issues related to digital transformation, internet and society. Following an open science approach, HIIG reaches out to political actors, civil society and the economy through various events, platforms and diverse communication channels. Our research allows stakeholders and the public to participate in a constructive dialogue on relevant social, economic and political issues in the digital society.

### EVENTS, WORKSHOPS, CONFERENCES

Numerous workshops, lectures and meetups at HIIG in 2017 have explored the social, economic and juridical repercussions of digitalisation from all perspectives. Multidisciplinary, public and innovative event formats have once more fostered the dialogue between disciplines and audiences outside academia. The four undertakings below exemplify HIIG's range of activities. Furthermore, we will continue to host our popular monthly discussion panel Digitaler Salon in 2018 with a new cooperation in 2017: the Ernst Schering Foundation supported the June, August and October editions and will also sponsor the January 2018 edition as part of a thematic series looking at human health in the digital age.

#### Lecture series: Making Sense of the Digital Society

Based on our Research Programme The Evolving Digital Society, the high-profile lecture series Making Sense of the Digital Society aims to help develop a European perspective on transformations that our societies are currently undergoing. HIIG and the German Federal Agency for Civic Education (bpb) invite great European thinkers to help further our understanding of the digital society. The lecture series was launched with an inauguration speech given by Manuel Castells in December 2017. The event welcomed more than 550 people at the venue, over 5800 people were following the lecture via live streaming. The lecture series will continue in 2018 with further high-profile speakers including José van Dijck, Elena Esposito, Marion Fourcade and Christoph Neuberger.

#### Game jam: Unveil the Privacy Threat

How can we build smart cities in a privacy and security-friendly way, when more and more movements and human actions are tracked by means of public Wi-Fi and camera systems? On a full weekend from 7 to 8 of October 2017, game designers and experts in the field



of privacy and security combined state-of-the-art technology, juridical details and creative thinking. 48 jammers and experts developed serious games to simplify and innovate the methods of employee training for data-driven corporates. About 30 more guest attended the public pitch event. The unique form of the event promises a comprehensive, intuitive and creative approach in teaching complex subject matter – not only for smart cities but for many other technological solutions we are confronted with today.

#### Conference and inauguration: Algorithmic Decision-making and Human Rights

Algorithmic decision-making and its implications were pivotal issues within the global internet research community in 2017. A workshop held by the Global Network of Internet and Society Research Centers (NoC), hosted by HIIG and Hans-Bredow-Institut addressed the need for new meta-norms that can ensure an ethical process of technological innovation and acknowledge human rights when it comes to algorithmic decision-making. The workshop benefitted very much from its multinational participation and international exchange of ideas: From 12 to 13 of October 2017, 54 attendees from 16 different nations joined the discussion on algorithmic decision-making and human rights. The workshop's findings also fed into the Global Symposium on Artificial Intelligence and Inclusion held in November in Rio de Janeiro. Following the workshop a European Hub was inaugurated to coordinate internet research centres in the whole of Europe. The first steps for the newly founded European Hub will be to create a common European research agenda, to organise regional workshops and conferences and to develop guidelines and ethical standards for internet research.

#### Transatlantic conference: Privacy and Cyber Security on the Books and on the Ground

HIIG in cooperation with New York University (NYU) held the first in a series of two conferences in November 2017 in Berlin addressing a pressing challenge in the transatlantic relationship: the tension between cybersecurity and data protection. The events bring together engineers, lawyers and political scientists, cybersecurity, data protection and governance experts, as well as representatives from security agencies, businesses and politics in order to analyse the problems in this field, develop approaches and strategies for solutions. The first conference welcomed 37 attendees and benefitted from its cross-sectoral, interdisciplinary dialogue: participation included high-profile scientists from various universities, public officials from the European Commission and German ministries, representatives from private businesses such as Microsoft or Facebook, and many more attendees working for foundations and other institutions.

## FORWARD-LOOKING EVENTS IN 2017 PRESENTED BY OUR DIRECTORS



### THOMAS SCHILDHAUER PRESENTS AN INNOVATIVE EVENT FORMAT:

“One of HIIG’s highlights of 2017 was an event that aimed to raise awareness of privacy and security risks through game mechanics to meet the GDPR’s requirements. For this reason, the game jam brought together a group of 30 game developers, designers, storytellers, and privacy and security experts. Together with industry experts from privacy and data security departments, we focused on data-protection and privacy-law-related questions, which require the implementation of technical and organisational measures in order to comply with the law (privacy and security by design). The Internet of Things debates show us that the question of how to implement these requirements in practice is as yet unresolved – the game jam stepped into these discussions to develop some initial ideas on how to teach, inform and entertain people on highly complex issues. After 36 hours of impressive teamwork, very inspiring freshly designed online and offline games emerged.”

Game Jam: Unveil the Privacy Threat · 7–8 October 2017



### WOLFGANG SCHULZ INAUGURATES THE EUROPEAN HUB OF THE NETWORK OF CENTERS:

“In the academic world, you don’t often have meetings in which so many concrete ideas are shared, it is difficult to write them down. That was, however, the case at the meeting of the representatives of European members of the NoC in Berlin in October. It was the birthday of the European HUB of the NoC, which will foster collaboration among centres, help create synergies and building project consortia. It also aims to make more use of the rich theoretical and conceptual heritage in Europe for the global debate on internet and society. HIIG has the mandate to launch and manage the HUB’s activities for the first few years. The meeting followed a workshop organised by HIIG and HBI on algorithmic decision making and artificial intelligence, which not only showed how many projects already revolve around that issue but also how passionate the research community is about engaging in AI research.”

Algorithmic Decision Making and its Human Rights Implications · 12–13 October 2017



### INGOLF PERNICE FOSTERS THE TRANSATLANTIC DISCOURSE ON PRIVACY AND SECURITY:

“Of all the unresolved issues in transatlantic relations, privacy and cyber security are still among the most controversial. This is especially true if they are related to practices of and new developments in mass surveillance, law enforcement and intelligence. We need to develop a better understanding of the diverse conceptions and concerns on both sides of the Atlantic and to find common ground for pragmatic solutions that can enhance (mutual) trust. The NYU Center on Law & Security and HIIG agreed to establish a Transatlantic Technology and Security Working Group as an open framework for promoting a continued dialogue, organising dedicated conferences and possibly developing common research projects in this area. Close cooperation with practitioners from business, politics and government is understood as essential for producing innovative results and practical policy recommendations. The opening conference emerging from this cooperation in November 2017 brought together highly renowned academics as well as distinguished representatives from political administrations and businesses. It was marked by thrilling keynote speeches and discussions. Following a publication of the proceedings, the work is planned to continue at a second conference in summer 2018 in New York.”

Privacy and Cyber Security on the Books and on the Ground · 6–7 November 2017



### JEANETTE HOFMANN INTRODUCES THE LECTURE SERIES MAKING SENSE OF THE DIGITAL SOCIETY:

“Most modern societies are interacting with digital technologies in ways that are giving rise to substantial transformations of nearly all facets of our everyday life. The aim of our new lecture series is to help draw a broader picture of these ongoing changes. We want to move from the general focus on single issues such as the power of algorithms or the risks of self-driving cars to a historically and theoretically grounded understanding of the characteristics of the digitalisation process. To this end, we are inviting great European thinkers to present their observations and thus make sense of the digital society. The Federal Agency of Civic Education (bpb) is the co-organiser of this project, that startet off with a lecture by Manuel Castells in December 2017.”

Manuel Castells: Power and Counter-power in the Digital Society · 12 December 2017

## INTERNET POLICY REVIEW

Internet Policy Review is an open access journal on internet regulation published by HIIG, in cooperation with CREATE in Glasgow, CNRS Institute of Communication Science (ISCC) in Paris, and (since December 2017) Internet Interdisciplinary Institute (IN3) in Barcelona. The IN3 is a centre co-founded by Manuel Castells, who officialised the partnership on 12 December in Berlin. The journal's focus is on copyright, cybersecurity, privacy, internet governance and infrastructure in the European context. The peer-reviewed journal is listed with the Web of Science Emerging Sources Citation Index (ESCI) and the Directory of Open Access Journals (DOAJ), and is a member of OASPA, the Open Access Scholarly Publishers Association. It can be followed on Twitter and LinkedIn. Since 2017, the journal has started partnering with the Association of Internet Researchers (AoIR) and will publish a series of special issues as part of that new opportunity.

In 2017, the journal published 20 research papers for a total of more than 100 research articles and 125 open editorials. The three most read papers remain *Internet Censorship in Turkey* (Akgül and Kırıldığ, 2015), *Can Human Rights Law Bend Mass Surveillance?* (Joergensen, 2014), and *Necessary and Inherent Limits to Internet Surveillance* (Wright, 2013). The most cited paper is *Bitcoin: A Regulatory Nightmare to a Libertarian Dream* (De Filippi, 2014).

The journal published two special issues:

- **Australian Internet Policy**, Angela Daly and Julian Thomas (eds.), with the support of the Swinburne Institute for Social Research and .au Domain Administration (auDA)
- **Political micro-targeting**, Natali Helberger, Claes de Vreese and Balazs Bodo (eds.)

The journal has developed and released open access technical improvements as a result of OpenAIRE funding for APC-free open access journals and platforms. One of the journal's new features is Open Abstracts, a peer review system in which Internet Policy Review reviewers and crowd reviewers provide instant feedback on extended abstracts.

## COMMUNICATION

In 2017, HIIG received a large number of press requests relating to all disciplines. Increasingly, HIIG researchers are being asked to give interviews and statements, and to assess or evaluate recent developments, judgements or political decisions in the field of internet and society. Press releases were regularly published on HIIG topics according to publications of dissertations, awards given to our researchers, statements concerning internet and society research as well as our involvement in the initiation of the European Hub as part of the efforts of HIIG within the Network of Centers (NoC). Press releases were distributed on idw, the most popular German platform for science communication.

Local and national newspapers, online media and radio broadcasts cover our events on digital society, our activities and research on data security and privacy, and our workshops and publications on economic innovation. Outstanding public outreach was accomplished by the HIIG project Wahlkompass Digitales prior to the German national election through the media partner Süddeutsche Zeitung. The Wahlkompass Digitales (digital election compass) aimed to create transparency in the German federal election 2017 by opening up the political parties' positions on issues related to digitisation and digital policy. The HIIG research team analysed the election programs of six German parties regarding their views on digital policy including work, education, security and health to illustrate initiatives and positions of each party the specific area of interest and how their positions differ.

In order to increase the institute's public outreach and to empower researchers to communicate their findings and knowledge in 2017 the HIIG offered presentation trainings. The value of these training sessions could be demonstrated in several television interviews.

Additionally, HIIG uses various academic and non-academic information platforms and communication tools, including:

**The HIIG website and blog** by our doctoral candidates and researchers: While the website is used to provide information on the institute and to announce current events (average daily visits: 350), the doctoral candidates and researchers regularly provide information on their academic work on the institute's Science Blog helping to shape it into a tool for putting scientific results up for discussion at an early stage (approx. 70 blog posts in 2017; total number of English blog posts visits: 8,070; German blog posts visits: 14,860). A new function that thematically structures the blog topics in curated dossiers helps to draw the focus to older blog posts as soon as a topic emerges again in the public. For instance, the dossier on the politics of metaphors, which started in mid-2017, was especially well received: popular articles attracted between 400 and 1,300 views. In 2017, we improved the website and the blog in terms of Search Engine Optimisation (SEO), Accelerated Mobile Pages (AMP) will be introduced starting in January 2018.

**Social media activities:** These include regular updates via social networks, alongside other forms of communication. Results (as of 1 December 2017):

- Facebook: 3,483 likes (2016: 2,844); Outreach per day: 890 (2016: 580)
- Twitter: 7,156 tweets, 4,237 followers (2016: 3,453), 4,000 impressions per day
- YouTube: 144 clips (2016: 103), 202 subscribers, 9,807 views (2016: 8,800)
- Newsletter HIIG Quarterly (subscribers worldwide): 3,277 (2016: 2,601); several subscriptions for HIIG events, CfP, positions
- OpeningScience.org: An online platform for the purpose of collecting and discussing information and research results concerning open science. The aim is to implement various projects based on the open science principle.



## RESEARCH REPORT APPENDIX

## APPENDIX: MONITORING OF THE INSTITUTE'S ACTIVITIES

To verify the institute's objectives are being met, common evaluation criteria were developed and approved by the HIIG Advisory Council. These criteria are understood as guidelines and used as a quantitative illustration of the institute's accomplishments:

Problem-oriented basic research on internet and society . . . . .	47
Promoting up-and-coming researchers . . . . .	54
A German node of an international network in the research area of the internet and society . . . . .	56
Interaction with politics, the civil society, and the economy regarding questions on internet and society. . . . .	57
Securing and developing the institute's work . . . . .	63

Please note that the following tables can only reflect a selection of the institute's work.



## PROBLEM-ORIENTED BASIC RESEARCH ON INTERNET AND SOCIETY

## 1. Research project applications (evaluated research grants, DFG, BMBF or alike)

SUBMITTED	TITLE/SUBMITTED AT	PARTNER	APPLICANTS
01.01.2017	Pelagios Submitted at: Mellon Foundation via Lancaster University (confirmed)	Lancaster University, The Open University, Austrian Institute of Technology, University of London, Institut d'Etudes Cat Alans	Jeanette Hofmann, Rebecca Kahn
05.01.2017	Konkurrent und Komplementär – Das Verhältnis betrieblicher Mitbestimmung und neuer Partizipationsplattformen Submitted at: Hans-Böckler-Stiftung (confirmed)	Thomas Wagenknecht (FZI)	Hendrik Send, Kirsten Gollatz
13.01.2017	GAMEaTHON Submitted at: Cisco (confirmed)	—	Thomas Schildhauer, Max von Grafenstein
01.02.2017	Smart Government Submitted at: Cisco Systems (declined)	—	Christian Djeffal
28.02.2017	Symposium: Shaping the Next Level of Digital Participation: Theories, Methods and Practices Submitted at: Center for Advanced Internet Studies (CAIS) GmbH c/o Heinrich-Heine- Universität Düsseldorf (confirmed)	Prof. Dr. Christof Weinhardt; Thomas Wagenknecht (FZI Forschungszentrum Informatik am Karlsruher Institut für Technologie), Prof. Dr. Martin Mauve, Dr. Tobias Escher (Heinrich-Heine-Universität Düsseldorf)	Thomas Schildhauer, Jeanette Hofmann, Hendrik Send, Kirsten Gollatz
28.02.2017	Deutsches Internet-Institut Submitted at: Bundesministerium für Bildung und Forschung (BMBF) (confirmed)	Prof. Dr. Martin Emmer (Kommunikationswissenschaft, FU); Prof. Dr. techn. Manfred Hauswirth (Informatik, TU/FOKUS); Prof. Dr. Jeanette Hofmann (Politikwissenschaft, WZB); Prof. Dr. Gesche Joost (Designforschung, UdK); Prof. Dr. Hanna Krasnova (Wirtschaftsinformatik, UP); Dr. Martin Krzywdzinski (Arbeitssoziologie, WZB); Prof. Dr. Axel Metzger, LL.M. (Rechtswissenschaften, HU); Prof. Dr. Barbara Pfetsch (Politikwissenschaft, FU); Prof. Dr. Björn Scheuermann (Informatik, HU); Prof. Dr.-Ing. Ina Schieferdecker (Informationstechnik, TU/FOKUS) sowie Prof. Dr. Dr. Thomas Schildhauer (Betriebswirtschaft, HIIG/ UdK)	Thomas Schildhauer, Jeanette Hofmann
01.03.2017	Redenreihe: Making Sense of the Digital Society (deutsch: Die digitale Gesellschaft verstehen und gestalten) Submitted at: Bundeszentrale für Politische Bildung (confirmed)	—	Jeanette Hofmann, Christian Katzenbach
03.03.2017	Digitaler Salon Special Edition: Gesundheit im digitalen Zeitalter Submitted at: Schering Stiftung (confirmed)	—	Jeanette Hofmann, Ingolf Pernice, Wolfgang Schulz, Thomas Schildhauer, Karina Preiß, Jennifer Wollniok
09.03.2017	Transatlantic Conference: Privacy and Cyber Security on the Books and on the Ground Submitted at: Fritz Thyssen Stiftung (declined)	Prof. Zachary K. Goldman (New York University; Executive Director, Center on Law & Security)	Ingolf Pernice
29.03.2017	Talk Series: Making Sense of the Digital Society Submitted at: Bundeszentrale für Politische Bildung (confirmed)	Bundeszentrale für Politische Bildung	Jeanette Hofmann, Christian Katzenbach

SUBMITTED	TITLE/SUBMITTED AT	PARTNER	APPLICANTS
05.04.2017	Digitale Wahlprüfsteine / Wahlkompass Submitted at: Politische Stiftungen (declined)	—	Christian Katzenbach, Karina Preiß
15.05.2017	Transatlantic Conference: Privacy and Cyber Security on the Books and on the Ground Submitted at: American Academy, Atlantik-Brücke, German Marshall Fund, Goethe-Institut New York, Open Society Foundation, KAS, FES, Stiftung Mercator (declined)	Prof. Zachary K. Goldman (New York University; Executive Director, Center on Law & Security)	Ingolf Pernice, Jörg Pohle
28.06.2017	Die rechtliche und diskursive Konstruktion von Dateneigentum – Data Property diesseits und jenseits des Atlantiks Submitted at: Universität Münster, Forschungsverbund ABIDA (declined)	—	Christian Katzenbach, Max von Grafenstein
31.07.2017	Nudging – Regulierung durch Big Data und Verhaltenswissenschaften Submitted at: ABIDA – Assessing Big Data (confirmed)	—	Maximilian von Grafenstein, Julian Hölzel, Jörg Pohle
31.08.2017	ELIAS: Ethical and Legal dimensions of IT technologies: human rights And Security in data-driven research Submitted at: EU H2020, SwafS-22-2017 (declined)	KU Leuven OII Oxford and eight further European partners	Wolfgang Schulz, Christian Katzenbach
31.08.2017	Digitaler Salon PLUS im Wissenschaftsjahr 2018 – Die Zukunft der Arbeit Submitted at: BMBF (declined)	Kooperative Berlin	Florian Lüdtke, Jennifer Wollniok
31.08.2017	Politics of Discourse: Governing change of policy frameworks for digital platforms. Case studies of Germany's Act improving law enforcement on social networks and UK's digital communication bills Submitted at: IT4Change (declined)	Chiara Poletti (Cardiff University)	Kirsten Gollatz, Christian Katzenbach
13.09.2017	Pelagios 7 Submitted at: Andrew W Mellon Foundation (confirmed)	Professor Leif Isaksen (University of Exeter) Dr Elton Barker (Open University) Dr Rainer Simon (Austrian Institute of Technology) Dr Valeria Vitale (School of Advanced Study, London)	Rebecca Kahn
15.09.2017	European Hub for Advanced Internet Studies Submitted at: Deutsche Forschungsgesellschaft (declined)	—	Nina Brach
30.09.2017	Transatlantic Conference: Privacy and Cyber Security on the Books and on the Ground Submitted at: Facebook Germany GmbH (confirmed)	Prof. Zachary K. Goldman (New York University; Executive Director, Center on Law & Security)	Ingolf Pernice, Jörg Pohle
01.10.2017	Impact-Schulungen (Wissenschaftskommunikationspreis) Submitted at: DFG und Stifterverband (declined)	—	Benedikt Fecher
01.10.2017	Wissenstransfer in Deutschland: Indikatorik und Erhebung Submitted at: n.a (declined)	—	Benedikt Fecher
01.10.2017	Reallabore Submitted at: BMWi (declined)	Fraunhofer	Wolfgang Schulz, Benedikt Fecher
01.10.2017	Redesign universitas: Organisatorische Potenziale und Grenzen digitaler Lehr- und Lerninnovationen an deutschen Hochschulen (RedUn) Submitted at: BMBF (submitted)	—	Benedikt Fecher
01.10.2017	Transferforschung/quant. Wissenschaftsforschung Submitted at: BMBF (submitted)	—	Benedikt Fecher

SUBMITTED	TITLE/SUBMITTED AT	PARTNER	APPLICANTS
01.10.2017	Netzwerk NIKE (European Network Data and Society Research) Submitted at: EU (submitted)	DELab, Vrije Universiteit Amsterdam, Lund University	Benedikt Fecher
22.10.2017	InnoRIID Submitted at: VDI (submitted)	Dr. Josef Heinskill, Fraunhofer FKIE	Christian Djeffal, Jessica Schwarz
24.10.2017	Cultural History of Europe's Public Squares (CHEOPS) Submitted at: BMBF via DLR-PT (submitted)	Dr Stefan Gelfgren, Dr Anna Foka (Umeå University, Sweden) Dr Stuart Dunn, Professor Graeme Earl (King's College, London) Dr Elton Barker (Open University) Dr Andrea Ballatore (Birkbeck College London) Dr Marco Büchler (Leibniz-Institut für Europäische Geschichte) Dr Marina Platonova (Riga Technical University) Dr Katrina Navickas (University of Hertfordshire)	Rebecca Kahn
01.11.2017	AI and Constitution Submitted at: DFG (submitted)	—	Christian Djeffal
13.11.2017	KI-gestützte Entscheidungen im gesellschaftlichen Kontext. Content Moderation und Krisenmanagement auf Social-Media-Plattformen Submitted at: BMBF (submitted)	Dr. Lena Ulbricht, WZB Prof. Dr. Tilo Mentler, Uni Lübeck	Christian Katzenbach, Christian Djeffal

## 2. Publications

### Publishing research results based on the evaluation criteria

A special focus lies in highly recognised discipline-based journal publications as well as transdisciplinary journal publications. Furthermore we aim to publish a number of open-access journal publications, peer-reviewed journal publications, chapters in edited volumes, and books reflecting our research objectives and programmes.

Please see full publications list on pp. 22 – 28.

## 3. Academic lectures and panels

### Selected competitive/peer reviewed conference presentations

EVENT ACTIVITY	EVENT	RESEARCHER
Lecture/Talk: Platform Governance. Die regulative, normative, diskursive und technische Regelung vernetzter Kommunikation	Jahrestagung 2017 der Deutschen Gesellschaft für Publizistik- und Kommunikationswissenschaft (DGPUK). Düsseldorf, Germany: 31.03.2017	Christian Katzenbach
Lecture/Talk: Becoming an innovation mastermind: Entrepreneurial capabilities of small business managers	Business Model Conference 2017. Venice, Italy: 18.05.2017	Jessica Schmeiss, Martina Dopfer
Lecture/Talk: Navigating the Grey Zone: Developers' Views on Imitation and Inspiration in the Game Sector	67th Annual Conference of the International Communication Association (ICA). San Diego, USA: 25.05.2017	Lies van Roessel, Christian Katzenbach
Lecture/Talk: Assessing the IPCC's Agenda Building Function in German News Media, Climate Blogosphere, and Comment Sections	67th Annual Conference of the International Communication Association (ICA). San Diego, USA: 26.05.2017	Jonas Kaiser, Markus Rhomberg

EVENT ACTIVITY	EVENT	RESEARCHER
Lecture/Talk: Bots and Users	67th Annual Conference of the International Communication Association (ICA). San Diego, USA: 28.05.2017	Jonas Kaiser
Panel: Common Ground Session	Transforming Entrepreneurial Thinking into Dynamic Capabilities. Organised by Strategic Management Society. Banff, Canada: 04.06.2017	Martina Dopfer, Jessica Schmeiss
Lecture/Talk: Digital Business Model Innovation for Autonomous Driving	ESMT Digital Future Summit 2017. Berlin, Germany: 23.06.2017	Jessica Schmeiss
Lecture/Talk: A Venture's Business Model Design Modes – A process perspective on business model design	R&D Management Conference 2017. Leuven, Belgium: 04.07.2017	Jessica Schmeiss, Thomas Möllers, Robin P. G. Tech
Lecture/Talk: Rethinking Academic Publications: Developing an Open-source Framework for a Multi-layer Narrative in Online Publishing	5th Conference on Computation, Communication, Aesthetics & X (xCoAx). Organised by xCoAx. Lisbon, Portugal: 06.07.2017	Marcel Hebing, Larissa Wunderlich, Julia Ebert
Lecture/Talk: Triggers of collaborative prototyping: A netnographic study of user innovation in open source hardware communities	15th International Open and User Innovation Conference (Session: Communities: User Innovation and Open Source 1). Innsbruck, Austria: 12.07.2017	Matti Grosse
Lecture/Talk: There's more than Law in Controlling IP! From Low IP Regimes to Multimodal Copyright Governance	9th Workshop of the International Society for the History and Theory of Intellectual Property (ISHTIP). Toronto, Canada: 12.07.2017	Christian Katzenbach
Lecture/Talk: Building Bridges with Breitbart: A Topic Model Analysis of Online Media Coverage During the US Presidential Election 2016	IAMCR 2017. Cartagena, Colombia: 18.07.2017	Jonas Kaiser, Nikki Bourassa
Lecture/Talk: Ordering (Digital) Communication: Eine mediensoziologische Zusammenführung von Regulierung, Kommunikation und Technik	Medien- und Kommunikationssoziologie: Vergangenheit, Gegenwart und Zukunft. Organised by Gemeinsame Tagung der DGPUK-FG Soziologie der Medienkommunikation und der DGS-Sektion Medien- und Kommunikationssoziologie. Friedrichshafen, Germany: 11.10.2017	Christian Katzenbach
Lecture/Talk: The Dark Side of the Public Sphere: Right-Wing Counterpublics in the US Elections	AoIR 2017 Networked Publics. Organised by Association of Internet Researchers (AoIR). Tartu, Estonia: 19.10.2017	Jonas Kaiser, Adrian Rauchfleisch
Lecture/Talk: Politics of Discourse: Fake News Controversy in Germany and how it solidifies in new institutional arrangements	AoIR 2017 Networked Publics (Session: Misinformation, Propaganda and Fake News: A European Perspective). Organised by Association of Internet Researchers (AoIR). Tartu, Estonia: 19.10.2017	Kirsten Gollatz, Jonas Kaiser, Cornelius Puschmann
Lecture/Talk: Platform Governance as Reflexive Coordination – Mediating Nudity, Hate Speech and Fake News on Facebook	AoIR 2017 Networked Publics. Organised by Association of Internet Researchers (AoIR). Tartu, Estonia: 19.10.2017	Christian Katzenbach, Kirsten Gollatz
Lecture/Talk: The Dark Side of the Public Sphere: Right-Wing Counterpublics in the US Elections	Political Communication in Times of Crisis: New Challenges, Trends & Possibilities. Organised by ECREA. Zurich, Switzerland: 22.11.2017	Jonas Kaiser, Adrian Rauchfleisch

#### Selected invitations to academic lectures and panels

EVENT ACTIVITY	EVENT	RESEARCHER
<b>International scope</b>		
Lecture/Talk: Constellations of trust and distrust: A brief stroll through the literature	IoT & Trust – Researchers Conference. Organised by Humboldt Institute for Internet and Society. Berlin, Germany: 22.02.2017	Jeanette Hofmann
Lecture/Talk: The Right-Wing Web: Online counterpublics, dissent, and the case of the US election	MALfunction #5: Dissent. Boulder, USA: 07.03.2017	Jonas Kaiser
Lecture/Talk: Semantic Annotation for Humanists: Linked Data Without the Pointy Brackets	International Symposium of Information Science 2017. Organised by University of Regensburg, Humboldt-Universität zu Berlin, Berlin School of Library and Information Science. Berlin, Germany: 15.03.2017	Rebecca Kahn

EVENT ACTIVITY	EVENT	RESEARCHER
Panel: The "World" Wide Web?	Society 3.0+: Can Liberty Survive the Digital Age? Organised by Princeton Fung Global Forum. Berlin, Germany: 20.03.2017	Jeanette Hofmann
Lecture/Talk: Altmetrics: Trends in Research and ways to meet them	International Open Science Conference 2017. Organised by Leibniz Research Alliance Science 2.0. Berlin, Germany: 21.03.2017	Benedikt Fecher
Panel: Report of the EC Expert Group on Metrics	International Open Science Conference 2017. Organised by Central Library for Economics, Berlin, Germany: 22.03.2017	Benedikt Fecher
Lecture/Talk: Beyond Donald Trump and Cat Content: Social Media for Researchers	10th IMPRS Workshop. Tangermünde, Berlin: 27.03.2017	Stefan Stumpp
Panel: Confronting Online Hate Speech: Identification and Strategies	RightsCon Brussels 2017. Organised by Centre for Communication Governance at National Law University. New Delhi, India: 29.03.2017	Wolfgang Schulz
Panel: Regulation and Governance of peace and cybersecurity: what role for each one?	Building International Peace and Security in Cyberspace. Public actors, private actors: roles and responsibilities. Organised by UNESCO. Paris, France: 06.04.2017	Ingolf Pernice
Lecture/Talk: Altmetrics: Neue Forschungspraktiken verlangen nach neuen Bewertungsmetriken	Annual Meeting of the Performances de la Recherche en Sciences humaines et sociales. Bern, Switzerland: 12.05.2017	Benedikt Fecher
Lecture/Talk: Measuring User Rights Online: Numerical Rankings as a Form of Governing Internet Freedom	Annual Conference of the Canadian Sociological Association at Congress of the Humanities and Social Sciences 2017 (Session: Sociology of quantification, commensuration, statistics, and valuation). Organised by Canadian Federation of the Humanities and Social Sciences. Toronto, ON, Canada: 29.05.2017	Kirsten Gollatz
Lecture/Talk: EU General Data Protection Regulation	National Congress for Personal Health. Organised by Sıŝli Hamidiye Etfal Eah Konferans Salonu. Istanbul, Turkey: 03.06.2017	Maximilian von Grafenstein
Lecture/Talk: From dinosaurs to business model masterminds	SMS Special Conference 2017. Banff, Canada: 04.06.2017	Jessica Schmeiss, Martina Dopfer, Roman Sauer
Lecture/Talk: Making the customer king – A qualitative study on customer centric business model innovation of SMEs	SPIM Innovation Conference 2017. Vienna, Austria: 19.06.2017	Jessica Schmeiss, Martina Dopfer
Keynote: Risk Management in the Digital Society – A Constitutional Perspective	Managing risk in the digital society. Internet, Law & Politics. Organised by Universitat Oberta de Catalunya. Barcelona, Spain: 30.06.2017	Ingolf Pernice
Panel: Intermediaries and the Constitutionalization of the Internet	Normative Orders and the Digital. Organised by Cluster of Excellence: The Formation of Normative Orders. Frankfurt, Germany: 07.07.2017	Wolfgang Schulz
Lecture/Talk: Triggers of collaborative prototyping: A netnographic study of user innovation in open source hardware communities	International Open and User Innovation Conference (Session: User Innovation and Open Source). Innsbruck, Austria: 12.07.2017	Matti Große
Lecture/Talk: There is no such thing as free Lunch: Conceptualizing Digital Labor	Berkman Klein Center for Internet and Society. Cambridge (MA), USA: 01.08.2017	Shirley Ogolla
Lecture/Talk: Pelagios Commons: Decentralising the Web of Historical Knowledge	Digital Cultural Heritage. Organised by CODATA-Germany. Berlin, Germany: 30.08.2017	Rebecca Kahn
Lecture/Talk: The path-dependence of academic value creation: Impact, infrastructure, and innovation in academic publishing	Open Science Fair. Athens, Greece: 06.09.2017	Benedikt Fecher
Lecture/Talk: Rethinking Representation through the Eyes of Big Data-based Microtargeting	ECPR General Conference (Session: Intersections between Big Data, Policy, and Governance). Organised by European Consortium for Political Research (ECPR). Oslo, Norway: 07.09.2017	Jeanette Hofmann
Lecture/Talk: Legitimate interest and compatible purpose vs. consent	Privacy Conference: Bitkom 2017 (Session: Legal Track). Organised by Bitkom e.V. Berlin, Germany: 19.09.2017	Max von Grafenstein

EVENT ACTIVITY	EVENT	RESEARCHER
Panel: Enhancing capacity in Internet governance through academic programmes	ITU-Academia Partnership Meeting: Developing skills for the digital era. Organised by International Telecommunication Union (ITU). Budapest, Hungary: 19.09.2017	Jeanette Hofmann
Lecture/Talk: Open Science in Practice	Open Science Evening Talks. Lausanne, Switzerland: 25.09.2017	Benedikt Fecher
Lecture/Talk: The Role of Codes of Conduct under the GDPR – Can Co-regulation do the Trick	6th APSN International Conference (Session: Global and Regional Privacy Protection Law and Standards). Hong Kong, China: 27.09.2017	Wolfgang Schulz
Lecture/Talk: The Dark Side of the Public Sphere: Right-Wing Counterpublics in the US Elections	AoIR 2017. Tartu, Estonia: 19.10.2017	Jonas Kaiser, Adrian Rauchfleisch, Nikki Bourassa
Panel: Developing Communities of Practice	Creating Historical Knowledge Socially: New Approaches, Opportunities and Epistemological Implications of Undertaking research with Citizen Scholars. Organised by German Historical Institute. Washington DC, United States: 26.10.2017	Rebecca Kahn
Lecture/Talk: Mapping the way to a public open access infrastructure	FORCE11 – The Future of Research Communication and e-Scholarship. Berlin, Germany: 26.10.2017	Benedikt Fecher, Tony Ross-Hellauer
Panel: Interactive Opening Session: Exploring Connection Points, Definitions, Challenges, And Opportunities for AI and Inclusion	Global Symposium: Artificial Intelligence and Inclusion. Organised by Global Network of Internet and Society Research Centers (NoC), Institute for Technology and Society of Rio de Janeiro (ITS Rio), Berkman Klein Center for Internet & Society at Harvard University. Rio de Janeiro, Brazil: 08.11.2017	Wolfgang Schulz
Lecture/Talk: Alexa, who owns my data? AI, Big Data and ownership	Platform cooperativism 2017. New York City, USA: 11.11.2017	Shirley Ogolla
Lecture/Talk: Data for breakfast? Social inclusion and algorithmic bias	Transatlantic ICT Forum 2017 (H2020). Brussels, Belgium: 30.11.2017	Shirley Ogolla
Lecture/Talk: The Critical Internet Infrastructure Revisited	Dagstuhl Seminar 17511. Organised by Leibniz-Zentrum für Informatik. Wadern, Germany: 17.12.2017	Uta Meier-Hahn
Panel: Council of Europe – Internet intermediaries: shared commitments and corporate responsibility (OF37)	IGF 2017. Organised by IGF. Geneva, Suisse: 18.12.2017	Wolfgang Schulz
<b>National scope</b>		
Lecture/Talk: Human Cyber-Physical Systems im Recht – rechtsfrei, rechtlos oder verrechtlicht? Schlaglichter auf die Gestaltung und den Einsatz von HCPS aus rechtlicher Sicht	Norm und Normierung von Human Cyber-Physical Systems (HCPS): ethische, soziale und rechtliche Aspekte. Organised by Carl von Ossietzky Universität Oldenburg. Oldenburg, Germany: 04.02.2017	Jörg Pohle
Panel: Panel: Digitale Demokratie oder smarte Diktatur: Was verändern digitale Grundrechte?	X. Leuphana Konferenzwoche. Organised by Leuphana Universität Lüneburg. Lüneburg, Germany: 01.03.2017	Jeanette Hofmann
Lecture/Talk: Systemdatenschutz reloaded: Eine gesellschaftspolitische Konzeption des Datenschutzes	Datenschutz-Workshop 2017. Organised by Institute for European and International Private and Procedural Law, Christian-Albrechts-Universität zu Kiel. Blekendorf, Germany: 11.03.2017	Jörg Pohle
Lecture/Talk: Digitalisierung und demokratischer Wandel	5. Gaterslebener Gespräch: Die digitale Revolution und ihre Folgen. Organised by Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK). Gatersleben, Germany: 05.05.2017	Jeanette Hofmann
Lecture/Talk: Film und Recht – urheberrechtliche Entwicklungen & automatisierte Rechtklärung	dwerft Abschlusskonferenz. Berlin, Germany: 12.05.2017	Henrike Maier

EVENT ACTIVITY	EVENT	RESEARCHER
Lecture/Talk: Nachhaltigkeit & Digitalisierung: Überlegungen	Klausurtagung des Wissenschaftlichen Beirats der Bundesregierung Globale Umweltveränderungen (WBGU). Organised by Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen (WBGU). Nauen, Germany: 17.05.2017	Jeanette Hofmann
Lecture/Talk: Technik sozial beherrschbar machen – Moderne Informationsverarbeitung jenseits der Differenz Privatheit(en) / Öffentlichkeit(en)	Privatheiten und Öffentlichkeiten. Organised by Albert-Ludwigs-Universität Freiburg, Freiburg, Germany: 23.05.2017	Jörg Pohle
Lecture/Talk: Pfadabhängigkeiten und Entwicklungsperspektiven der wissenschaftlichen Kommunikation im digitalen Zeitalter	Leviathan-Fachtagung zur Lage der sozial- und geisteswissenschaftlichen Zeitschriften. Berlin, Germany: 12.06.2017	Benedikt Fecher
Lecture/Talk: Vielfaltssicherung durch Medienordnung: Konzentrationsentwicklungen bei Anbietern von Infrastrukturen und Inhalten	121. Studienkreis-Tagung. Organised by Studienkreis für Presserecht und Pressefreiheit. Hamburg, Germany: 30.06.2017	Wolfgang Schulz
Lecture/Talk: Das Internet-Institut für die vernetzte Gesellschaft	Senatssitzung Leibniz Gemeinschaft. Organised by Leibniz Gemeinschaft. Berlin, Germany: 11.07.2017	Jeanette Hofmann
Lecture/Talk: Personenbezug hat als Unterscheidungskriterium ausgedient: Wie Grundrechte und Grundfreiheiten auch durch die Verarbeitung nicht-personenbezogener Daten bedroht werden können	Digitalisierung und Mobilität: Grundsatzfragen Informationsfreiheit und Datenschutz. Organised by instkomm – Institut für Kommunikationsforschung. Berlin, Germany: 17.07.2017	Jörg Pohle, Julian Hölzel
Lecture/Talk: Wie können vorhandene Technologietrends zu einer neuen Qualität der Beteiligung und Entscheidungsfindung führen?	Fachforum Digitales Planen und Gestalten. Köthen, Germany: 06.09.2017	Stefan Stumpp
Lecture/Talk: Die Auswirkungen des Zweckbindungsprinzips auf Innovationsprozesse in Startups	Herbstakademie (Session: Data Protection Law). Organised by Deutsche Stiftung für Recht und Informatik. Hamburg, Germany: 15.09.2017	Max von Grafenstein
Lecture/Talk: Datenschutz als Wettbewerbsvorteil? Die Zertifizierung von Privacy-by-Design und der Stand der Technik	Interdisziplinäre Konferenz des Forum Privatheit: Die Fortentwicklung des Datenschutzes (Session: Innovationen). Organised by Forum Privatheit. Berlin, Germany: 02.11.2017	Max von Grafenstein
Lecture/Talk: Kooperationen zwischen Startups und Mittelstand. Learn. Match. Partner	Vorstellung der Studie. Berlin, Germany: 15.11.2017	Martin Wrobel
Lecture/Talk: Selbstbestimmung in der vernetzten Gesellschaft	Ring-Vorlesung: Digital Humanities. Die digitale Transformation der Geisteswissenschaften. Organised by BBAW. Berlin, Germany: 21.11.2017	Thomas Schildhauer
Session lead/Workshop moderation: Medien & Öffentlichkeit: Maßgeschneidert informiert	ÖFIT 2017: (Un)berechenbar? Algorithmen und Automatisierung – Chancen und Herausforderungen für Staat und Gesellschaft. Organised by Kompetenzzentrum Öffentliche IT. Berlin, Germany: 23.11.2017	Christian Katzenbach
Lecture/Talk: Normative Leitlinien für KI in der öffentlichen Verwaltung	ÖFIT-Konferenz 2017 (Session: Regieren & Verwalten: Ganz automatisch?). Organised by Fraunhofer FOKUS. Berlin, Germany: 23.11.2017	Christian Djefal
Lecture/Talk: Geänderte Strukturen der öffentlichen Diskussion durch die neuen Medien – Bestandsaufnahme und Trends	Staat machen mit 140 Zeichen? Organised by Karlsruher Forum für Kultur, Recht und Technik e.V.; Stadt Karlsruhe Kulturamt. Karlsruhe, Germany: 30.11.2017	Jeanette Hofmann
Lecture/Talk: Kooperationen zwischen Startups und Mittelständlern. Modelle für die Zukunft	1. VDI-Fachkonferenz: Corporates und StartUps – Neue Geschäftsfelder und Digitale Transformation. Organised by VDI. München, Germany: 06.12.2017	Martin Wrobel

## Selected organisation of academic lectures and panels

EVENT	LOCATION/DATE	RESEARCHER
<b>International scope</b>		
Conference: IoT & Trust	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 23.02.2017 – 23.02.2017	Christian Djeflal, Robin P. G. Tech
Summer School: Hate Speech	Centre for Communication Governance, New Delhi, India 14.03.2017 – 21.03.2017	Felix Krupar, Wolfgang Schulz
Discussion/Meeting: Karsten Geier: International Cybersecurity Policy	Humboldt Institute for Internet and Society, Berlin, Germany 05.07.2017	Ingolf Pernice
Workshop: BMI Workshop Norwegian Business School	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 14.09.2017	Martina Dopfer
Conference: Algorithmic Decision Making and its Human Rights Implications	Humboldt Institute for Internet and Society, sirius minds, Berlin, Germany 12.10.2017 – 13.10.2017	Anne-Kristin Polster, Wolfgang Schulz
Discussion/Meeting: David Chaum: Digital Democracy	Humboldt Institute for Internet and Society, Berlin, Germany 02.11.2017	Ingolf Pernice
Conference: Privacy and Cyber Security on the Books and on the Ground	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 06.11.2017 – 07.11.2017	Christian Marks, Luis Oala, Marie-Christine Dähn, Jörg Pohle, Ingolf Pernice
Workshop: Music and Copyright Law (Series)	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 22.11.2017 – 30.09.2018	Henrike Maier
<b>National scope</b>		
Lecture/Talk: Medien und gesellschaftlicher Wandel – Aktuelle und historische Perspektiven auf öffentliche Kommunikation	Freie Universität Berlin, Institut für Publizistik- und Kommunikationswissenschaft, Berlin, Germany 16.02.2017	Jeanette Hofmann
Seminar/Teaching series: Digitale Währungen (M.A. Informatik/Humboldt-Universität zu Berlin)	Humboldt-Universität zu Berlin, Berlin, Germany 18.04.2017 – 18.07.2017	Stefan Dietzel, Julian Hölzel
Seminar/Teaching series: Big Data: Kritik der algorithmischen Macht	Freie Universität Berlin, Institut für Publizistik- und Kommunikationswissenschaft, Berlin, Deutschland 19.04.2017 – 12.07.2017	Jeanette Hofmann
Discussion/Meeting: Geschichte und Theorie des eGovernment	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 19.04.2017	Julian Hölzel, Jörg Pohle
Workshop: IV. Interdisziplinärer Workshop Privacy, Datenschutz & Surveillance	Humboldt Institut für Internet und Gesellschaft, Berlin, Germany 28.06.2017	Marie-Christine Dähn, Jörg Pohle
Seminar/Teaching series: Security und Privacy in dezentralen Systemen	Humboldt-Universität zu Berlin, Berlin, Germany 01.11.2017 – 14.02.2018	Julian Hölzel
Workshop: V. Interdisziplinärer Workshop: Privacy, Datenschutz & Surveillance	Humboldt Institute for Internet and Society, Berlin, Germany 05.12.2017	Marie-Christine Dähn, Jörg Pohle, Ingolf Pernice



## PROMOTING UP-AND-COMING RESEARCHERS

## 1. Students who completed their doctoral thesis within the institute's doctoral programme

DOCTORAL THESIS	RESEARCHER
Dopfer, M. (2017). <i>How do early ventures develop their business models</i> (Doctoral dissertation). University of St. Gallen, St. Gallen.	Martina Dopfer
Fecher, B. (in press). <i>Eine Reputationsökonomie: Der Wert der Daten in der akademischen Forschung</i> . Wiesbaden: Springer VS.	Benedikt Fecher
von Grafenstein, M. (in press). <i>The Principle of Purpose Limitation in Data Protection Laws: The Risk-Based Approach, Legal Principles and Private Standards as Elements for Regulating Innovation</i> . Baden-Baden: Nomos.	Maximilian von Grafenstein
Haase, A. (2017). <i>Computerkriminalität im Europäischen Strafrecht</i> . Tübingen: Mohr Siebeck.	Adrian Haase
Kind, U. (2017). <i>Online Video als Branded Entertainment in Deutschland – Geschäftsmodelle für die Produktion und Messbarkeit der Nutzereinstellung</i> (Unpublished doctoral dissertation). Berlin University of the Arts, Berlin.	Urs Kind
Leuschner, S. (in press). <i>Sicherheit als Grundsatz. Eine grundrechtsdogmatische Rekonstruktion im Unionsrecht am Beispiel der Cybersicherheit</i> . Tübingen: Mohr Siebeck.	Sebastian Leuschner
Maier, H. (in press). <i>Remixe auf Hosting-Plattformen</i> . Tübingen: Mohr Siebeck.	Henrike Maier
Tech, R. P. G. (in press). <i>Financing high-tech startups – Using productive signaling to efficiently overcome the liability of complexity</i> . Basel: Springer International.	Robin P. G. Tech
Züger, T. (2017). <i>Reload Disobedience. Ziviler Ungehorsam im Zeitalter digitaler Medien</i> (Doctoral dissertation). Humboldt-Universität zu Berlin, Berlin.	Theresa Züger

## A GERMAN NODE OF AN INTERNATIONAL NETWORK IN THE RESEARCH AREA OF THE INTERNET AND SOCIETY

### 1. Involvement in NoC events

#### Involvement in external NoC events

EVENT ACTIVITY	EVENT	RESEARCHER
Panel: Interactive Opening Session: Exploring Connection Points, Definitions, Challenges, And Opportunities for AI and Inclusion	Global Symposium: Artificial Intelligence and Inclusion. Organised by Global Network of Internet and Society Research Centers (NoC), Institute for Technology and Society of Rio de Janeiro (ITS Rio), Berkman Klein Center for Internet & Society at Harvard University. Rio de Janeiro, Brazil: 08.11.2017	Wolfgang Schulz

#### Organisation of NoC events

EVENT	LOCATION/DATE	RESEARCHER
Summer School: Hate Speech	Centre for Communication Governance, New Delhi, India 14.03.2017 – 21.03.2017	Felix Krupar, Wolfgang Schulz
Conference: Algorithmic Decision Making and its Human Rights Implications	Humboldt Institute for Internet and Society, sirius minds, Berlin, Germany 12.10.2017 – 13.10.2017	Anne-Kristin Polster, Wolfgang Schulz

### 2. Organising an annual fellowship-programme for associated post graduates

FELLOW/DATE/PROJECT PARTNER	SHORT CV/HOME INSTITUTION
Ofra Klein 06.06.2017 – 30.09.2017 Cornelius Puschmann	Ofra Klein interned with the Berkman Klein Center for Internet & Society at Harvard University over the summer of 2016, where she was involved in the harmful speech project. Before that she worked as a teaching assistant at the Faculty of Social Sciences at VU University Amsterdam. Ofra holds a Master's degree in political science from Leiden University and an Advanced Master's degree in Digital Humanities from KU Leuven
Eduardo Magrani 12.06.2017 – 09.09.2017 Christian Djefal	Eduardo Magrani is an internet policy expert and a lawyer. As Professor of Law and researcher at Fundação Getulio Vargas (FGV) and the Center for Internet & Society, his current focus is on assessing different models to regulate online services and personal data and their consequences to innovation. Fundação Getulio Vargas Center for Technology and Society
Sharon Bar-Ziv 04.07.2017 – 30.09.2017 Maximilian von Grafenstein	Dr. Sharon Bar-Ziv is a Research Fellow at The Haifa Center for Law & Technology, University of Haifa, Faculty of Law, where she also wrote her dissertation titled: Transfer of Publicly Funded Knowledge through Commercialization of Intellectual Property Rights. Her current research interest is focused on Law & Technology, Intellectual Property Law, Science and R&D Policy, Innovation and Entrepreneurship, as well as empirical methodologies for Intellectual Property Studies. University of Haifa Faculty of Law – Haifa Center for Law and Technology
Chiara Poletti 17.07.2017 – 31.12.2017 Kirsten Gollatz	Chiara Poletti is a PhD student at School of Social Sciences, Cardiff University (United Kingdom). Her research focuses on the governance of Internet and social media, digital social interaction, digital public sphere, digital citizenship and digital rights movements. School of Social Sciences Cardiff University

## INTERACTION WITH POLITICS, THE CIVIL SOCIETY, AND THE ECONOMY REGARDING QUESTIONS ON INTERNET AND SOCIETY

## 1. Selected coverage of the HIIG's work and its researchers in high impact media and online sources

TITLE	MEDIUM/DATE	SUBJECT
Quote: Social Bots und Fake News – Das Internet als Sündenbock	Deutschlandfunk (Radio) 05.01.2017	Jonas Kaiser
Interview: Facebook Initiative "Free Basics": Unter welchen Bedingungen sollen Offliner ins Netz kommen?	DR Kultur (Radio) 16.01.2017	Jeanette Hofmann
Interview: Round Table Digitalisierung III: Banken und FinTechs brauchen einander	die bank (Online) 27.01.2017	Thomas Schildhauer
Quote: As repression deepens, Turkish artists and intellectuals fear the worst	Deutsche Welle (Online) 13.02.2017	Melih Kırıldıođ
Quote: Why Europeans are less eager consumers of online ranting than Americans	The Economist (Print) 04.03.2017	Cornelius Puschmann
Interview: Das vernetzte Zuhause – Vorsicht vor ungebetenen Gästen Volle Kanne vom 15. März 2017	ZDF (TV) 15.03.2017	Ayad Al-Ani
Quote: Arbeitsblatt, Experiment, Virtual Reality – in der Überlappung entsteht Wissen	Forum Bildung Digitalisierung (Online) 16.03.2017	Benedikt Fecher
Interview: Die einen bleiben friedlich, andere pöbeln – wie verhalten Sie sich im Netz?	rbb Kulturradio (Radio) 16.03.2017	Jeanette Hofmann
Interview: Prof. Dr. Jeanette Hofmann (WZB) über die Rolle der Gesellschaft bei der Digitalisierung	IT-Gipfelblog (Online) 20.03.2017	Jeanette Hofmann
Interview: Spion im Schlafzimmer	Deutsche Welle (TV) 21.03.2017	Maximilian von Crafenstein
Interview: Richter- und Anwaltsstag berät zum überforderten Rechtsstaat im Internet	SWR2 (Radio) 05.04.2017	Jeanette Hofmann
Interview: Der Druck wächst	Märkische Oderzeitung (Print) 06.04.2017	Ingolf Pernice
Article: Rather than simply moving from "paying to read" to "paying to publish", it's time for a European Open Access Platform	LSE Impact Blog (Online) 10.04.2017	Benedikt Fecher, Sascha Friesike
Article: Hymne auf den Mann, der das World Wide Web erfand	WeltN24 (Online) 02.05.2017	Sascha Friesike
Quote: Digitale Grundrechte dringend gesucht	ZDFheute (Online) 09.05.2017	Jeanette Hofmann
Quote: Der Feind in meinem Computer	Frankfurter Allgemeine Zeitung (Online) 11.05.2017	Jeanette Hofmann
Quote: Kampf dem "Neuland"?	BR.de (Online) 23.05.2017	Jeanette Hofmann
Reference: Internet-Institut geht nach Berlin	tagesschau.de (Online) 23.05.2017	Humboldt Institut für Internet und Gesellschaft
Reference: Le Pen schenkt HC ein Like: Wie sich Europas Rechte vernetzen	derStandard.at (Online) 24.05.2017	Humboldt Institut für Internet und Gesellschaft
Quote: Berlin bekommt das Deutsche Internet-Institut	UdL Digital (Online) 31.05.2017	Jeanette Hofmann
Interview: Wie Forscher die Digitalisierung zum Guten beeinflussen möchten	WirtschaftsWoche (Online) 07.06.2017	Jeanette Hofmann
Quote: Die Wahlschlacht der Datenbanken	Der Tagesspiegel (Print) 17.06.2017	Jeanette Hofmann, Humboldt Institut für Internet und Gesellschaft

TITLE	MEDIUM/DATE	SUBJECT
Reference: Whose Speech Is Chilled by Surveillance?	Slate (Online) 07.07.2017	Internet Policy Review
Quote: Fehler im System: Wie Forscher die Zahl ihrer Publikationen künstlich nach oben treiben	Berliner Zeitung (Online) 10.07.2017	Martin Schmidt, Institut für Internet und Gesellschaft
Interview: Algorithmen und Bots – die neuen Meinungsmacher?	MDR (Radio) 13.07.2017	Kaiser, J
Article: Eine Elefantenherde im Labor	TAZ (Online) 21.07.2017	Schmidt, M., Fecher, B., Kobsda, C
Reference: Von Appmusik bis Weiterbildung	Der Tagesspiegel (Online) 24.07.2017	Thomas Schildhauer, Humboldt Institut für Internet und Gesellschaft
Reference: Wahlkompass Digitales: Online-Tool vergleicht Programme der Parteien	Bochumer Zeitung (Online) 24.07.2017	Humboldt Institut für Internet und Gesellschaft
Quote: Welche Partei nimmt den Datenschutz ernst?	BR24 (Online) 24.07.2017	Jörg Pohle, Humboldt Institut für Internet und Gesellschaft
Quote: Zwischen Phrasen und klarer Haltung	Süddeutsche Zeitung (Online) 24.07.2017	Natalia Sokolovska, Humboldt Institut für Internet und Gesellschaft
Interview: Hörbar: Wahlkompass Digitales	afk M94.5 (Radio) 25.07.2017	Natalia Sokolovska, Humboldt Institut für Internet und Gesellschaft
Interview: Vier Jahre Neuland	Fritz Radio (Radio) 27.07.2017	Christian Djeffal
Interview: Der Elefant im Labor	radioeins (Radio) 29.07.2017	Benedikt Fecher
Interview: Internet-Kommunikation: Dynamisches Forschungsfeld	Deutschlandfunk (Radio) 07.08.2017	Wolfgang Schulz
Quote: Politiker verfolgen dich im Internet (jedenfalls versuchen sie es)	Krautreporter (Online) 24.08.2017	Jeanette Hofmann
Interview: Stimmenfang im Neuland: Was bringt der digitale Wahlkampf?	SWR2 (Radio) 31.08.2017	Jeanette Hofmann
Article: Schafft 15 Digitalministerien	Süddeutsche.de (Online) 17.09.2017	Christian Djeffal, Wahlkompass Digitales
Article: Deutschland braucht nicht ein Digitalministerium, sondern viele!	Süddeutsche.de (Online) 18.09.2017	Christian Djeffal, Wahlkompass Digitales
Quote: Zeitgemäßer Auftrag im Internet für ARD und ZDF	Frankfurter Allgemeine (Online) 27.09.2017	Wolfgang Schulz
Quote: Digitale Agenda: Deutschland hinkt hinterher	rbb24 (Online) 29.09.2017	Jeanette Hofmann
Reference: IT-Professorin über neues Internet-Institut: Das finden Sie nirgends auf der Welt	taz.de (Online) 04.10.2017	Humboldt Institut für Internet und Gesellschaft
Quote: Warum Elsevier das "Forscher-Facebook" Researchgate verklagt	Deutschlandfunk (Online) 02.11.2017	Benedikt Fecher, Humboldt Institut für Internet und Gesellschaft
Reference: Wieder salonfähig	tip Berlin (Print) 16.11.2017	Jeanette Hofmann, Digitaler Salon, Humboldt Institut für Internet und Gesellschaft

TITLE	MEDIUM/DATE	SUBJECT
Reference: Ohne radikale Innovationen kein Gründungserfolg	Springer Professional (Online) 20.11.2017	Humboldt Institut für Internet und Gesellschaft
Quote: Kryptomärkte	Deutschlandfunk Nova Hörsaal (Radio) 02.12.2017	Meropi Tzanetakis
Reference: Review: Macht und Widerstand in der digitalen Gesellschaft	Netpolitik (Online) 22.12.2017	Making Sense of the Digital Society
Reference: Kooperationen: Mittelständler und Start-ups vereint gemeinsamer Kern	WirtschaftsWoche Gründer (Online) 22.12.2017	Humboldt Institut für Internet und Gesellschaft

## 2. Developing formats for knowledge transfer e.g. regular events, event cooperations, publications, platforms or information services as part of the exchange with our target groups and to further transdisciplinary networking

Please see 'Transfer of research through events, platforms and communication' on pp. 40 – 45.

## 3. Selected invitations to non-academic lectures, panel discussions, public hearings

EVENT ACTIVITY	EVENT	RESEARCHER
International scope		
Participating expert	Hearing: Meeting with British Members of Parliament. Organised by British Embassy, Berlin, Germany: 14.02.2017	Ingolf Pernice
Lecture/Talk: Human Rights and Encryption (UNESCO Series on Internet Freedom study)	Federal Foreign Office, Berlin, Germany: 15.02.2017	Wolfgang Schulz
Lecture/Talk: Zusammenarbeit etablierter Unternehmen mit Start-ups	Symposium Digitalisierung von Geschäftsmodellen in B2B-Märkten. Organised by Institut für Handel, Absatz und Marketing; University Linz, Linz, Austria: 09.03.2017	Thomas Schildhauer
Session lead/Workshop moderation	Committee of Experts on Internet Intermediaries 3rd Meeting, Strasbourg, France: 27.03.2017	Wolfgang Schulz
Lecture/Talk: Human Rights and Encryption (UNESCO Series on Internet Freedom study)	Freedom Online Coalition, Brussels, Belgium: 29.03.2017	Wolfgang Schulz
Session lead/Workshop moderation: Business model journey	Business Model Innovation at Rehau, Berlin, Germany: 03.04.2017	Martina Dopfer
Lecture/Talk: Providing an introduction to resonanzraum #3	resonanzraum #3: Die Zukunft der Demokratie. Organised by Ullstein Buchverlage, Berlin, Germany: 05.04.2017	Kirsten Gollatz
Participating expert	Conference: Visions. Organised by Zalando, Berlin, Germany: 20.04.2017	Martina Dopfer
Lecture/Talk: Big Data, Big Business?	Annual Conference LESI2017: IP Revolution? Scenarios for the future. Organised by Licensing Executives Society, Paris, France: 24.04.2017	Maximilian von Grafenstein
Session lead/Workshop moderation: Contemporary challenges to the freedom of expression	Freedom of Expression Online: Evolving European jurisprudence and standard setting activities in the digital age. Organised by Supreme Court of Cyprus, Council of Europe, Nicosia, Cyprus: 28.04.2017	Wolfgang Schulz
Participating expert	Hearing: European Parliament – Committee for Constitutional Affairs (AFCO). Organised by European Parliament, Bruxelles, Belgium: 02.05.2017	Ingolf Pernice
Participating expert	Hearing: Implementation of the Treaty provisions concerning national Parliaments: the way forward. Organised by European Parliament, Bruxelles, Belgium: 02.05.2017	Ingolf Pernice
Participating expert	Workshop: Cube Tech Fair, Berlin, Germany: 10.05.2017	Martina Dopfer

EVENT ACTIVITY	EVENT	RESEARCHER
Lecture/Talk: User-driven Innovation for Decentralized Power Generation: An Alternative for Rural India?	Indo-German Young Leaders Forum (Session: Cooperating for a Sustainable Future: Innovative Solutions for India and Germany). Berlin, Deutschland: 12.05.2017	Matti Grosse
Lecture/Talk: Governing Platforms by Algorithms? Digital Sovereignty and the Technological Fix for Hate Speech and Fake News	Digital Future 2017 – Digital Science Match. Organised by Tagesspiegel / Alfred Herrhausen Gesellschaft. Berlin, Germany: 12.05.2017	Christian Katzenbach
Lecture/Talk: Making the customer king – customer centric business model innovation	ISPIM Innovation Conference (Session: Sharing innovation research results & practice). Vienna, Austria: 20.06.2017	Jessica Schmeiss, Martina Dopfner
Session lead/Workshop moderation: Digital Transformation of Media Industry	Digital-born Media Carnival. Organised by SHARE Foundation, OSCE Mission to Serbia, Ministry of Foreign Affairs of the Netherlands. Kotor, Montenegro: 15.07.2017	Kirsten Gollatz
Lecture/Talk: The turn to artificial intelligence in content moderation	Digital-born Media Carnival (Session: Understanding Complex Systems). Organised by SHARE Foundation, OSCE Mission to Serbia, Ministry of Foreign Affairs of the Netherlands. Kotor, Montenegro: 17.07.2017	Kirsten Gollatz
Participating expert	Workshop: Measuring Fake News. Organised by Stiftung Neue Verantwortung. Berlin, Germany: 24.07.2017	Kirsten Gollatz
Lecture/Talk: Mindfulness in the innovative firm	VND Verlag Innovation Journey. Berlin, Germany: 23.08.2017	Martina Dopfer
Panel: Roundtable: fundamental digital rights – do we need a separate charter?	European Forum Alpbach 2017. Organised by Europäisches Forum Alpbach. Alpbach, Germany: 28.08.2017	Jeanette Hofmann
Session lead/Workshop moderation	Committee of Experts on Internet Intermediaries 4th Meeting. Strasbourg, France: 18.09.2017	Wolfgang Schulz
Discussion/Meeting	Workshop: Transatlantic Cyber Forum workshop: Intelligence Governance and Oversight Innovation. Organised by Stiftung Neue Verantwortung. Washington, D.C, USA: 19.09.2017	Jörg Pohle
Participating expert	Hearing: 1st Meeting of the Commission Expert Group on Reconfigurable Radio Systems. Organised by DG GROW. Brussels, Belgium: 02.10.2017	Jörg Pohle
Keynote: Social Sciences on AI: Mapping an emerging field	Artificial Intelligence and its Impact on Tomorrow's World. Organised by Volkswagen Foundation. Einbeck, Germany: 05.10.2017	Jeanette Hofmann
Lecture/Talk: Creating Connectivity: How Networkers Manufacture the Good of the Internet	RIPE 75 Meeting (Session: Plenary). Organised by RIPE NCC. Dubai, United Arab Emirates: 23.10.2017	Uta Meier-Hahn
Participating expert	Workshop: NetGain Partnership on Algorithmic Accountability. Organised by NetGain Partnership. London, England: 25.10.2017	Wolfgang Schulz
Lecture/Talk: Challenges and Strategies for Certifying Data Anonymisation for Data Sharing	IAPP Europe Data Protection Congress 2017. Organised by IAPP. Brussels, Belgium: 08.11.2017	Max von Grafenstein
Lecture/Talk: How Should the Administration use AI? A Legal and Ethical Perspective	Brazilian-German Roundtable on Ethics of Algorithms (Session: Algorithms and Public Services). Organised by Deutsche Gesellschaft für Internationale Zusammenarbeit, Centre for Internet and Human Rights. Berlin, Germany: 13.11.2017	Christian Djeflal
Participating expert	Hearing: 2nd Meeting of the Commission Expert Group on Reconfigurable Radio Systems. Organised by DG GROW. Brussels, Belgium: 30.11.2017	Jörg Pohle
<b>National scope</b>		
Keynote: Arbeit und Unternehmen im Prozess der "digitalen Landnahme"	Die Infosphäre gestalten – wie Digitalisierung Unternehmen und Demokratie verändert (XV. Berliner Forum für Ethik in Wirtschaft und Politik). Organised by Katholische Akademie in Berlin. Berlin, Germany: 19.01.2017	Thomas Schildhauer

EVENT ACTIVITY	EVENT	RESEARCHER
Panel: (Digitaler) Handel 2020: online – hybrid – offline – Transformation und Remix für den Omnichannel-Kunden	23. Handelsblatt-Tagung Strategisches IT-Management. Organised by Handelsblatt. Munich, Germany: 24.01.2017	Thomas Schildhauer
Lecture/Talk: Are you ready to start-up?	Science Slam Deutschland. Berlin, Germany: 06.02.2017	Martin Wrobel
Panel: Reform der institutionellen Architektur – Soziale Demokratie für Europa	Die Union zusammenhalten – Europa sozial gestalten. Organised by Hans-Böckler-Stiftung. Berlin, Germany: 07.02.2017	Ingolf Pernice
Panel: Reality Check – Wie meistern wir die Herausforderungen?	Big Data in der Amtsstube – Neue Wege zur Innovation im öffentlichen Sektor. Organised by Nationales E-Government Kompetenzzentrum e.V. Berlin, Germany: 15.02.2017	Ingolf Pernice
Lecture/Talk: Capturing the Uncapturable: Representing Performance Online	Digitalisierungs-Triple 1: KUNSTRAUM – Public Exchange. Organised by LAFT Berlin e.V. Berlin, Germany: 22.02.2017	Rebecca Kahn
Lecture/Talk: Erfolgsmodelle für eine effiziente Zusammenarbeit zwischen Startups und etablierten Unternehmen	Workshop: Kooperationen zwischen Startups und Mittelstand. Organised by Spielfeld, Humboldt Institut für Internet und Gesellschaft. Berlin, Germany: 06.03.2017	Martin Wrobel
Participating expert	Workshop: Wirtschaftspolitische und regulatorische Rahmenbedingungen für die digitale Transformation in Schwellen- und Entwicklungsländern. Organised by Gesellschaft für Internationale Zusammenarbeit (GIZ). Berlin, Germany: 07.03.2017	Ingolf Pernice, Rüdiger Schwarz
Panel: Digitalisierung- wirklich ohne Grenzen?	CeBIT 2017. Hannover, Germany: 19.03.2017	Jeanette Hofmann
Lecture/Talk: Impuls-Statement Gesellschaft	CeBIT 2017. Hannover, Germany: 19.03.2017	Jeanette Hofmann
Participating expert: Fake News – Medienrechtliche Aspekte und Regulierungen	Hearing: Fachgespräch im Ausschuss für Kultur und Medien des Deutschen Bundestages. Berlin, Germany: 22.03.2017	Wolfgang Schulz
Panel discussion	Cohn-Bendit trifft... Jeanette Hofmann und Heribert Prantl. Frankfurt am Main, Germany: 26.03.2017	Jeanette Hofmann
Lecture/Talk: Wie gelingt es etablierten Industrieunternehmen eine Start-up-Kultur zu entwickeln?	IGM Campus Nürnberg. Organised by IG Metall Nürnberg. Berlin, Germany: 29.03.2017	Thomas Schildhauer
Lecture/Talk: Fake News und Hate Speech	Staatskanzlei Schleswig-Holstein. Kiel, Germany: 30.03.2017	Wolfgang Schulz
Session lead/Workshop moderation: Fachausschuss Information und Kommunikation	Deutsche UNESCO-Kommission. Bonn, Germany: 03.04.2017	Wolfgang Schulz
Panel: Big Data – Wer bestimmt mein Leben?	22. Deutscher Richter- und Staatsanwaltstag. Organised by Deutscher Richterbund (DRB). Weimar, Germany: 04.04.2017	Ingolf Pernice
Panel: Netzneutralität – Anspruch und Wirklichkeit?	22. Deutscher Richter- und Staatsanwaltstag. Organised by Deutscher Richterbund. Weimar, Germany: 05.04.2017	Jeanette Hofmann
Lecture/Talk: Kompetenzentwicklung für Industrie 4.0	Forum Industrie 4.0 meets the Industrial Internet. Organised by Deutsche Messe AG. Hanover, Germany: 24.04.2017	Thomas Schildhauer
Participating expert	Workshop: Policy for Media Pluralism in the Intermediated Infosphere. Organised by Medienanstalt Berlin-Brandenburg (mabb). Berlin, Germany: 05.05.2017	Wolfgang Schulz
Lecture/Talk: 4.0, KI, IoT – aber wie? Rechtswissenschaftliche Perspektiven auf neue Dimensionen der Verwaltungsdigitalisierung	1. Fachkongress Digitaler Staat (Session: Digitale Verwaltung VIII: Prozessoptimierung und Automation in der Verwaltung). Organised by Behörden Spiegel. Berlin, Germany: 09.05.2017	Christian Djeflal
Panel: #DigitalCharta – Brauchen wir Grundrechte für das digitale Zeitalter?	re:publica 2017. Berlin, Germany: 11.05.2017	Jeanette Hofmann
Lecture/Talk: Impulsvortrag II	dwerft-Konferenz (Session: Metadaten als Geschäft). Berlin, Germany: 12.05.2017	Urs Kind

EVENT ACTIVITY	EVENT	RESEARCHER
Keynote: Hate Speech & Co. Rechtsdurchsetzung in sozialen Netzwerken verbessern	Fachkonferenz der SPD Bundestagsfraktion. Organised by SPD-Bundestagsfraktion. Berlin, Germany: 18.05.2017	Wolfgang Schulz
Participating expert	Workshop: Workshop zur Fake-News-Datenanalyse Measuring Fake News. Organised by Stiftung Neue Verantwortung. Berlin, Germany: 19.05.2017	Kirsten Collatz
Participating expert	Hearing: Expertendiskussion zum Thema Kirche und Digitalisierung. Organised by Evangelische Landeskirche. Stuttgart, Germany: 19.05.2017	Thomas Schildhauer
Lecture/Talk: Verfassungsrechtliche Eckpunkte eines Umgangs mit sozialen Medien	Soziale Medien: Gefahr oder Chance für Rechtsstaat und Demokratie. Organised by Rechtsstandort Hamburg e.V. Hamburg, Germany: 16.06.2017	Wolfgang Schulz
Participating expert	Hearing: Entwurf des Gesetzes zur Verbesserung der Rechtsdurchsetzung in sozialen Netzwerken (Netzwerkdurchsetzungsgesetz – NetzDG). Organised by Ausschuss für Recht und Verbraucherschutz. Berlin, Germany: 19.06.2017	Wolfgang Schulz
Discussion/Meeting	10. Runder Tisch: Internet und Menschenrechte. Berlin, Germany: 20.06.2017	Wolfgang Schulz
Panel: Digitalität demokratischer Öffentlichkeit	#digidemos: Kongress zu Digitalisierung und Demokratie. Organised by Friedrich-Ebert-Stiftung. Berlin, Germany: 20.06.2017	Wolfgang Schulz
Panel: Staat 2.0? E-Government, Open Data und das Verhältnis von Staat und Bürger_innen	#digidemos: Kongress zu Digitalisierung und Demokratie. Organised by Friedrich-Ebert-Stiftung. Berlin, Germany: 20.06.2017	Ingolf Pernice
Discussion/Meeting: Partizipation durch Machen: Open Creative Labs als Zwischenorte für Innovationen	Conference: Partizipation durch Machen: Open Creative Labs als Zwischenorte für Innovationen. Berlin, Germany: 23.06.2017	Martina Dopfer
Keynote: Entwicklung der Medien in Deutschland – Herausforderungen und Schlussfolgerungen für die Medienpolitik	Medienpolitischer Dialog. Organised by SPD-Bundestagsfraktion. Berlin, Germany: 29.06.2017	Wolfgang Schulz
Lecture/Talk: Sicherheitssimulation, Sicherheitstheater und Movie Plot Security	Sicherheit 2017. Lubmin, Germany: 08.07.2017	Jörg Pohle
Session lead/Workshop moderation: Chancen und Herausforderungen von Kooperationen zwischen Startups und Mittelständlern	TOA Disrupted! The unconventional conference for Mittelstand, Startups and Corporates Tech Open Air Festival 2017. Berlin, Germany: 13.07.2017	Martin Wrobel
Panel: Disruptive Erfolgsgeschichten	Tech Open Air. Organised by TOA. Berlin, Germany: 13.07.2017	Thomas Schildhauer
Lecture/Talk: Fiktionen technischer Steuerung. Was Politik von Wissenschaft lernen kann	Conference: Das ist Netzpolitik! Organised by netzpolitik.org. Berlin, Germany: 01.09.2017	Jeanette Hofmann
Panel: A-Soziale Medien – Machen digitale Technologien die Demokratie unmöglich?	internationales literaturfestival berlin. Organised by internationales literaturfestival berlin. Berlin, Germany: 09.09.2017	Jeanette Hofmann
Lecture/Talk: Learning 4.0 – Neue Formen, Wissen zu vermitteln	5. DKB-Zukunftsforum. Organised by DKB. Löwenberger Land, Germany: 28.09.2017	Thomas Schildhauer
Lecture/Talk: Das neue Deutsche Internet-Institut in Berlin	Forum Digital Banking 2017. Organised by Association of German Banks. Berlin, Germany: 09.10.2017	Jeanette Hofmann
Session lead/Workshop moderation: Fachausschuss Information und Kommunikation	Deutsche UNESCO-Kommission. Organised by German Commission for UNESCO. Berlin, Germany: 18.10.2017	Wolfgang Schulz
Lecture/Talk: Gemeinsame oder getrennte Infrastruktur	Zukunft gestalten! (Session: Aggregatoren und Plattformen). Organised by Unesco Kommission e.V. Berlin, Germany: 19.10.2017	Max von Grafenstein
Lecture/Talk: Demokratie im Datenkapitalismus	Hannah Arendt Tage: Wissen – Macht – Meinung: Demokratie 5.0. Organised by State capital Hannover, Leibniz Universität Hannover, Volkswagen Foundation. Hannover, Germany: 21.10.2017	Jeanette Hofmann
Lecture/Talk: Umgang mit Veränderungen durch Digitalisierung für Führungskräfte in der Verwaltung	Impulsveranstaltung 2017. Organised by Evangelischer Oberkirchenrat. Stuttgart, Germany: 16.11.2017	Thomas Schildhauer



## SECURING AND DEVELOPING THE INSTITUTE'S WORK

## 1. Acquisition of institutional and project funding to extend the life-span of the institute (confirmed)

BRIEF DESCRIPTION	FUNDER	DIRECTOR/RESEARCHER	CONTRACT TIME FRAME	FUNDING 2017
Institutional funding	GFI/google	—	01.04.2012 – 31.12.2019	1 500 000€
Support on project: Wachstumskern D-Werft – Verbundprojekt 5: Zukunftsforschung und Wissenstransfer; Erforschung zukünftiger sozialer und wirtschaftlicher Entwicklungen im A/V-Wirtschaftszweig	Federal Ministry of Education and Research (BMBF)	Sascha Friesike, Thomas Schildhauer	01.03.2014 – 28.02.2017	9 000€
Support on project: Wachstumskern D-Werft – Verbundprojekt 3: Rechtemanagement; Gesetzliche Voraussetzung für die Verwertung von Verwaisten Werken	Federal Ministry of Education and Research (BMBF)	Henrike Maier, Ingolf Pernice, Rüdiger Schwarz	01.03.2014 – 28.02.2017	9 000€
Support on project: User Innovation in the Energy Market	innogy Foundation for Energy and Society	Matti Große, Thomas Schildhauer, Hendrik Send	01.06.2015 – 31.05.2018	46 000€
Support on project: Networks of Outrage	Volkswagen Foundation	Julian Ausserhofer, Christian Katzenbach, Jeanette Hofmann, Cornelius Puschmann	01.01.2016 – 31.03.2017	10 000€
Support on project: Internet of Things	Cisco	Christian Djefjal, Robin P. G. Tech, Thomas Schildhauer, Ingolf Pernice, Osvaldo Saldias	01.05.2016 – 30.04.2017	125 000€
Support on project: Kompetenzzentrum 4.0	Federal Ministry for Economic Affairs and Energy (BMWi)	Jessica Schmeiss, Martin Wrobel, Thomas Schildhauer	01.05.2016 – 30.04.2019	82 000€
Support on project: Internet Policy Review (IPR)	creatE	Frédéric Dubois, Uta Meier-Hahn, Jeanette Hofmann	01.07.2016 – 30.06.2017	15 000€
Support on project: Internet Policy Review (IPR)	European Union (FP7 post-grant OA publishing funds)	Jeanette Hofmann, Frédéric Dubois	01.10.2016 – 31.03.2017	8 000€
Support on project: OPEN – Methods and tools for community-based product development	Deutsche Forschungsgemeinschaft (DFG)	Matti Große, Robin P. G. Tech, Hendrik Send, Thomas Schildhauer	01.10.2016 – 31.07.2017	40 000€
Support on Project: Collaboration of Startups and Corporates	Spielfeld Digital Hub	Martin Wrobel, Thomas Schildhauer	01.10.2016 – 30.09.2017	56 000€
Funding for the position of a community manager	Lancaster University	Rebecca Kahn, Jeanette Hofmann	01.01.2017 – 31.12.2017	50 000€
Support on dissertation project	RIPE NCC (Réseaux IP Européens Network Coordination Centre)	Uta Meier-Hahn	01.01.2017 – 31.12.2017	28 000€
Support of activities within the Network of Centers (Summer School New Delhi)	Facebook	Felix Krupar, Wolfgang Schulz	01.03.2017 – 30.06.2017	10 000€
Support on project: Gamathon	Cisco	Maximilian von Grafenstein, Thomas Schildhauer	01.05.2017 – 30.04.2018	61 000€
Support of the event: Disrupted! The unconventional conference for Mittelstand, Corporates and Startups	TOA – Tech Open Air	Jessica Schmeiss, Martina Dopfer, Thomas Schildhauer	01.06.2017 – 31.07.2017	5 000€

BRIEF DESCRIPTION	FUNDER	DIRECTOR/RESEARCHER	CONTRACT TIME FRAME	FUNDING 2017
Support on four special broadcasts Digitaler Salon	The Ernst Schering Foundation	Jennifer Wollniok	01.06.2017 – 31.01.2018	13 000€
Funding for two workshops within the project EXPLOIDS (Explicit Privacy-Preserving Host Intrusion Detection System)	Federal Ministry of Education and Research (BMBF)	Maximilian von Grafenstein	01.07.2017 – 30.06.2018	10 000€
Workshop series on music and copyright in cooperation with the Haus der Kulturen der Welt	Haus der Kulturen der Welt / House of World Cultures	Henrike Maier	01.08.2017 – 30.09.2018	5 000€
Funding of an analysis on the relation between Big Data and Nudging	ABIDA – Assessing Big Data	Julian Hölzel, Maximilian von Grafenstein, Jörg Pohle	01.10.2017 – 28.02.2018	24 000€
Support on the project: Konkurrent und Komplementär	Hans-Böckler-Stiftung	Kirsten Gollatz, Hendrik Serd, Thomas Schildhauer, Jeanette Hofmann	01.10.2017 – 30.09.2019	74 000€
Support on the study: Datenschutz als Steuerungsressource für die Transparenz von ADM-Systemen	Bertelsmann Stiftung	Wolfgang Schulz	01.11.2017 – 31.12.2017	16 000€
Sponsorship for a transatlantic conference on Privacy and Cybersecurity in the Books and on the Ground	Facebook Germany GmbH	Jörg Pohle, Ingolf Pernice	06.11.2017 – 07.11.2017	7 000€
Support of the event series: Making Sense of the Digital Society	Bundeszentrale für politische Bildung (bpb)	Jeanette Hofmann, Christian Katzenbach	01.12.2017 – 31.01.2019	26 000€
				<b>2229 000€</b>



**DANKE** TEŞEKKÜR EDERİM **TODA** XIÈXIE **GRAZIE** HVALA **DANKON**  
THANK YOU **MAHALO** KIITOS **GRACIAS** DANKIE **MERCI** OBRIGA-  
DA **KAM SAH** **HAMNIDA** DHANYAVAD **SIYABONGA** MAURUURU **TAK**

Adobe, Anhalt University of Applied Sciences, Association of Internet Researchers (AoIR), Partner für Wirtschaft und Technologie, Berlin University of the Arts (UdK), Bertelsmann Stiftung, Bundesverband Mittelständische Wirtschaft, Commerzbank-Stiftung, Council of Europe, CREATE, Disruptive network, German Association for Small and Medium-sized Businesses (BVMW), German Centre for Higher Education Research and Science Studies (DZHW), Cisco, CREATE, Deutsche Forschungsgemeinschaft (DFG), DRadio Wissen, dwerft, Ernst Schering Foundation, facebook, Federal Agency for Civic Education (BpB), Federal Ministry for Economic Affairs and Energy (BMWi), Federal Ministry of Education and Research Germany (BMBF), FH Brandenburg, Foundation Internet and Society, German Institute for Economic Research (DIW Berlin), Google, Hans Böckler Foundation, Hans-Bredow-Institut for Media Research (HBI), Hasso Plattner Institut, Haus der Kulturen der Welt, Humboldt-Universität zu Berlin (HU), Hamburgische Gesellschaft für Wirtschaftsförderung mbH (HWF), ISCC-CNRS, innogy Foundation for Energy and Society (former RWE Foundation), iRights.Law, Innovation and Law, Institut des sciences de la communication (ISCC), Kooperative Berlin Kulturproduktion, Leibniz Association, Leibniz Research Alliance Science 2.0, Lernfabrik, Lund University, media.net berlinbrandenburg, MIT Media Lab, Mittelstand Digital, New York University, Next Media Accelerator, nextMedia. Hamburg, Open Access Infrastructure for Research in Europe (OpenAIRE), Open Access Scholarly Publishers Association (OASPA), Research Center for Information Technology (FZI), Ripe NCC, Siemens, Social Science Research Center Berlin (WZB), Spielfeld Digital Hub (Roland Berger, Visa Europe), Standard, Stifterverband, Süddeutsche Zeitung, Tagesspiegel, Technische Hochschule Brandenburg, Tech Open Air (TOA), Ullstein Verlag, University of Glasgow, University of Münster, University of Oldenburg, University of Potsdam, University of St. Gallen, University of Warsaw/Delab, VolkswagenStiftung, Vrije Universiteit Amsterdam, Zeitverlag

## ABOUT THE INSTITUTE

The Alexander von Humboldt Institute for Internet and Society (HIIG) explores the dynamic relationship between the internet and society, including the increasing interpenetration of digital infrastructures and various domains of everyday life. Its goal is to understand the interplay of social-cultural, legal, economic and technical norms in the process of digitalisation.

Through its basic and applied research, HIIG contributes novel ideas and insights to the public debate on the challenges and opportunities of digitalisation. It serves as a forum for researchers on internet and society and encourages the collaborative development of projects, applications and research networks on the national and international level. The institute uses a variety of formats to share its research with the public, including the political sphere, business and civil society.

The three founding associates – Humboldt-Universität zu Berlin, Berlin University of the Arts and Social Science Research Center Berlin, in alliance with the Hans-Bredow- Institut for Media Research in Hamburg as an integrated cooperation partner – enable the institute to adopt a multilayered perspective by focusing on technological and legal issues, as well as on sociological, economic and artistic aspects.



