

PROGRAMME

Cyberspace 2019

XVII. International conference organized by the Faculty of Law
in cooperation with the Faculty of Social Studies, Masaryk University
and the European Academy of Law and ICT
November 29th - 30th, 2019, Brno, Masaryk University

November 29th, University Cinema Scala, Moravské nám. 3, Brno

12:30 - 14:00	Registration
14:00 - 14:45	Algorithmic Justice Keynote by Ales Zavrsnik
14:45 - 15:30	Panel discussion
15:30 - 16:00	Coffee break
16:00 - 16:45	Global Kids Online - from evidence to impact Keynote by Sonia Livingstone
16:45 - 17:30	Panel discussion
17:30 - 17:45	Group picture
17:45 - 21:00	Reception

November 30th, Faculty of Law, Veveri 70, Brno

9:00 - 9:30	Registration
9:30 - 11:00	Parallel streams (Law: Intellectual Property On-Line (Licensing); Law: Privacy and Personal Data (Concepts); Psychology of Cyberspace; Internet and Society; Law: Cybercrime, Digital Evidence; Workshop: New trends in combining high security and user experience of mobile applications; Law: Government 2.0, eJustice, ODR)
11:00 - 11:15	Coffee break
11:15 - 12:45	Parallel streams (Law: Intellectual Property On-Line (AI); Law: Privacy and Personal Data (Experience); Psychology of Cyberspace; Internet and Society; Law: Cybercrime, Digital Evidence; Workshop: Democracy meets Digitization - Elections and Participation in the Digital Age; Law: Government 2.0, eJustice, ODR)
12:45 - 13:45	Lunch
13:45 - 15:15	Parallel streams (Law: Intellectual Property On-Line (Data); Law: Privacy and Personal Data (AI); Psychology of Cyberspace; New Media and Politics; International Internet Law; Law: Cybersecurity, Cyber-Warfare; Law: eCommerce, Digital Single Market)
15:15 - 15:30	Coffee break
15:30 - 17:00	Parallel streams (Law: Intellectual Property On-Line (Art. 17 DSM); Usable Security and Privacy (Developer-centred security); Psychology of Cyberspace; Manipulative Techniques On-Line; Legal Informatics; Law: Cybersecurity, Cyber-Warfare; Liability v. Compliance in Engineering)
17:00 - 17:15	Coffee break

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17:15 - 18:45	Parallel streams (Law: Intellectual Property On-Line (Limits); Usable Security and Privacy (User-centred security); Psychology of Cyberspace; Manipulative Techniques On-Line; Legal Informatics; Medical Data; Liability v. Compliance in Engineering)
19:30	Conference dinner (upon a special registration - not included in the conference fee) - Restaurant Padowetz, Masarykova 34, Brno

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Keynote speakers

Sonia Livingstone



Sonia Livingstone DPhil (Oxon), FBA, FBPS, FAcSS, FRSA, OBE is a professor in the Department of Media and Communications at the London School of Economics and Political Science. She has published 20 books on children's online opportunities and risks, including "The Class: Living and Learning in the Digital Age." Taking a comparative, critical and contextualised approach, her research examines how the changing conditions of mediation are reshaping everyday practices and possibilities for action. She researches media audiences, especially children's and young people's risks and opportunities, media literacy, and rights in the digital environment. She currently directs the projects "Children's Data and Privacy Online," "Global Kids Online" (with UNICEF) and "Parenting for a Digital Future", and she is Deputy Director of the UKRI-funded "Nurture Network." Recipient of many honours, she has advised the UK government, European Commission, European Parliament, Council of Europe, OECD and UNICEF, among others, on children's internet safety and rights in digital environments. Sonia is chair of the LSE's Truth, Trust and Technology Commission, a former President of the International Communication Association and Executive Board member of the UK Council for Child Internet Safety, and founder of the EC-funded 33-country EU Kids Online research network. She is a #SaferInternet4EU Ambassador for the European Commission, and was Special Advisor, House of Lords Select Committee on Communications: Inquiry into Children and the Internet, 2016-17. She blogs at www.parenting.digital. See www.sonialivingstone.net and @Livingstone_S

Global Kids Online - from evidence to impact

What are the latest research findings on children's online risks and opportunities? In this talk I will answer these questions by drawing on the Global Kids Online (GKO) project – an international research collaboration between the London School of Economics and Political Science and UNICEF Office of Research-Innocenti, with the EU Kids Online network and in collaboration with multiple partners around the world. We have just finished analysing the data from 14,733 children aged 9-17 who use the internet and were surveyed using the GKO methodology together with one of their parents in 11 high, upper-middle and lower-middle income countries across four different regions. I will present the highlights of seven thematic analyses, concerned with access, context of use, digital skills, online opportunities, online risks, the relation between risk and harm, and parental mediation. By reflecting on the findings, I will then explain how GKO has been revising its conceptual model and survey methodology.

How are these findings being used to inform improvements in policy and practice around the world? This year GKO commissioned an independent agency to investigate and evaluate the impact of its research. The results of this study help us to position the findings within the wider context of children's rights in relation to the digital environment, to note the pressing gap between what's happening and what's needed. I will conclude by arguing that while there is real progress, we are still far from ensuring children's rights and resilience in a digital world.

Ales Završnik



Dr. Aleš Završnik is a Senior Research Fellow at the Institute of Criminology at the Faculty of Law in Ljubljana and Associate Professor at the Faculty of Law University of Ljubljana, Slovenia. He was EURIAS & Marie Curie Fellow at the Collegium Helveticum/ETH in Zürich (2017/18). His research interest lay in the intersection of law, crime, technology, and fundamental rights. Among several others, he leads a research project Automated Justice: Social, Ethical and Legal Implications (Slovenian Research Agency, 2018 -2021), and lead a research project Law in the Age of Big Data (Slovenian Research Agency, 2014 - 2017). He edited a book Big Data, Crime and Social Control (Routledge, 2018) and a book Drones and Unmanned Aerial Systems: Legal and Social Implications for Security and Surveillance (Springer, 2016). He organised several conferences in these research areas, e.g. Automated Justice: Algorithms, Big Data and Criminal Justice Systems in Zürich (2018) and Big Data: Challenges for Law and Ethics in Ljubljana (2017). He is an independent Ethics Expert with the European Research Council (ERC) and for the REA, the research arm of the European Commission.

Algorithmic Justice

Our world runs on big data, algorithms, and artificial intelligence (AI), as social networks suggest whom to befriend, algorithms trade our stocks, and even romance is no longer a statistics-free zone (Webb, 2013). Automated decision-making processes already influence how decisions are made in banking, payment sectors, and the financial industry, as well as in insurance, education, and employment. Applied to social platforms, they have contributed to the distortion of democratic processes, such as general elections, with "political contagion", similar to the "emotional contagion" of the infamous Facebook experiment (Kramer et al., 2014). This trend is a part of "algorithmic governmentality" (Rouvroy and Berns, 2013) and the increased influence of mathematics on all spheres of our lives. It is a part of "solutionism", whereby tech companies offer technical solutions to all social problems, including crime (Morozov, 2013). Despite the strong influence of mathematics and statistical modelling on all spheres of life, the question of "what, then, do we talk about when we talk about 'governing algorithms'?" (Barocas et al., 2013) remains largely unanswered in the criminal justice domain. How does the justice sector reflect the trend of the "algorithmisation" of society and what are the risks and perils of such? The purpose of the talk is to, first, examine the more fundamental changes in knowledge production in criminal justice settings occurring due to over-reliance on the new epistemological transition, and second, to show why automated predictive decision-making tools are often at variance with fundamental liberties and also with the established legal doctrines and concepts of criminal procedure law.

Završnik, A. (2019). Algorithmic Justice: Algorithms and Big Data in Criminal Justice Settings. European Journal of Criminology, forthcoming.

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November 30th, Faculty of Law, Veveri 70, Brno

9:00 - 9:30

Registration

9:30 - 11:00

Parallel streams

Law: Intellectual Property On-Line (Licensing) - Room 025

chaired by **Andreas Wiebe, Matěj Myška**

Pedro Dias Venâncio	Smart Contracts and Free Use of Copyright Works
Christina Kirichenko	Codes in the Clouds: New and Old Approaches to Open Source Software Licensing
Lucius Klobucnik	Withdrawal of online rights from collective management organisations in the EU and the US – licensing and regulatory pitfalls

Law: Privacy and Personal Data (Concepts) - Room 038

chaired by **František Kasl, Jakub Míšek**

Adrienn Lukacs	Job Applicants' Right to Data Protection with Special Regard to the Principle of Data Quality in Social Media
Tamás Szádeczky, Gergely Szoke	Current challenges of confidentiality and publicity in the view of information security
Erich Schweighofer, Felix Schmutz	Consent Management and other Legal Aspects regarding „Interactive Radio“
Jan Tomisek	Cookies and online tracking: future of regulation

Psychology of Cyberspace - Room 133

chaired by **David Šmahel, Hana Macháčková**

Cristina Ponte, Susana Batista	Coping with problematic online situations: the role of the family 'climate' on children's strategies
Daniela Šincek, Ivana Duvnjak, Marija Milić	Contribution of Sexting Motivation to Explanation of Variance of Sexting
Adrian Abendroth, Hanna Krasnova, Daniel B. le Roux, Doug A. Parry, Jana Gundlach	Technology Use Addiction: Scales, Dimensions, Validity?
Birgit Ursula Stetina, Jan Aden, Anastasya Bunina, Carolin Griehsler, Armin Klaps, Zuzana Kovacovsky, Reinhard Ohnutek,	Recreational gaming on the rise: Exploring gender differences in recreational and problematic forms of gaming

Internet and Society - Room 148

chaired by **Kristian Daneback, Jakub Macek**

Thomas Roessing	The public eye in online communication
Christine W. Trueltzsch-Wijnen	SES as moderating factor for digital literacy?
Sascha Trueltzsch-Wijnen, Christine W. Trueltzsch-Wijnen	Mobile App Repertoires of Young People and Emerging Adults
Rossana Cruz	The child within social media - a parent trap?

Law: Cybercrime, Digital Evidence - Room 208

chaired by **Aleš Završnik, Václav Stupka**

László Dornfeld	Current issues of combatting online child pornography in the European Union
Felix Emeakpore Eboibi, Muktar Bello	The Economic and Financial Crimes Commission and the Effectiveness of Implementation of Digital Forensics Investigation in the Fight against Cybercrime in Nigeria
Pedro Miguel Freitas	European Production and Preservation Orders for electronic evidence in criminal matters: impact on Portuguese law
Marek Swierczynski, Remigijus Jokubauskas	New Council of Europe Guidelines on electronic evidence in civil and administrative law

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New trends in combining high security and user experience of mobile applications - Room 211

Workshop

Agáta Kružíková, Petr Doležal, Lenka Knapová	In-Depth User Evaluation of mBanking Authentication Application
Lenka Knapová, Lenka Dědková, Agáta Kružíková, David Šmahel	NFC Token vs. Card-Reader: A Large-Scale Study of Preferences in Smartphone Authentication
Anežka Pejlová	Visual hash - secure user-friendly transaction authorization

Law: Government 2.0, eJustice, ODR - Room 214

chaired by **Ludwig Gramlich, Pavel Loutocký**

Maria Dymitruk	Models of AI application in judicial proceedings
Federica Casarosa	The role of courts in shaping social media regulation - The case of Italy

11:00 - 11:15 Coffee break

11:15 - 12:45 Parallel streams

Law: Intellectual Property On-Line (AI) - Room 025

chaired by **Andreas Wiebe, Matěj Myška**

Jan Zibner	Resystematization of copyright in the age of AI
Daria Matvienko	Artificial Intelligence and an Author
Roman Bieda	Do we need a new type of right to protect AI creations?

Law: Privacy and Personal Data (Experience) - Room 038

chaired by **František Kasl, Jakub Míšek**

Tihomir Katulić	A Year in Data Protection: Compliance and Regulatory Response in Croatia
Krzysztof Garstka, David Erdos	The "Right to be Forgotten" Online in National Data Protection Frameworks within the G20
Jakob Zanol, Jonas Pfister	On the "Ibiza Scandal" - Freedom of Speech, Journalism and Data Protection
Jakub Míšek	Open Data Directive and Personal Data Protection

Psychology of Cyberspace - Room 133

chaired by **David Šmahel, Hana Macháčková**

Alexander Peter Schouten, Loes Janssen, Emmelyn Croes	Influencer Advertising on Instagram: Product-Endorser Fit and Number of Followers Affect Influencer and Product Evaluations via Credibility and Identification
Ugnė Paluckaitė, Kristina Žardeckaitė-Matulaitienė	Adolescents' intention and willingness to engage in risky photo disclosure on social networking sites: testing the Prototype Willingness Model
Natalia Waechter	Self-socialization in social media. Young people's challenges between individuality and collectivity

Internet and Society - Room 148

chaired by **Kristian Daneback, Jakub Macek**

Tomáš Karger	The economy of platforms: property and market boundaries in the age of sharing
Magda Petrjanosova, Romana Medvedova	New media use in Slovak youth

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Law: Cybercrime, Digital Evidence - Room 208

chaired by **Aleš Završník, Václav Stupka**

Kitti Mezei	The criminal use of cryptocurrencies: legal challenges and considerations
Judyta Kasperkiewicz	Cyberfraud on the cryptocurrency market - falls of crypto-currency exchanges from the legal perspective
Cyriacus Chimaogwu Orlu, Felix Eboibi	The gloomy prognosis of institutionalization of plea bargain in cybercrime prosecution
István Ambrus	Artificial Intelligence and Criminal Liability

Democracy meets Digitization - Elections and Participation in the Digital Age - Room 211

Workshop

Christine Leitner	Empowerment of European Mobile Youth (EMY) – Two case studies from Austria and Estonia
Robert Müller-Török	Current Authentication in e-Participation in Baden-Württemberg - Issues and Consequences
Domenica Bagnato, Alexander Prosser	The Impact of Council of Europe Recommendation CM/Rec(2017)5 on the Viability of eVoting Protocols

Law: Government 2.0, eJustice, ODR - Room 214

chaired by **Ludwig Gramlich, Pavel Loutocký**

Zbyněk Loeb	Designing Online Civil Courts
Seyedeh Sajedah Salehi, Marco Giacalone	Algorithmic Dispute Resolution in Cross-border Civil Conflicts in the EU
Damian Klimas	Legal barriers of IoT development in Poland with regard to smart cities

12:45 - 13:45 Lunch

13:45 - 15:15 Parallel streams

Law: Intellectual Property On-Line (Data) - Room 025

chaired by **Andreas Wiebe, Matěj Myška**

Michaela MacDonald	Data ownership: a way forward or dead end?
Kamil Szpyt	Legal issues of acquiring and using non-personal data for the purposes of artificial intelligence functioning
Ondřej Hanák	Text and Data Mining in the DSM Directive: too restrictive approach?

Law: Privacy and Personal Data (AI) - Room 038

chaired by **František Kasl, Jakub Míšek**

Gabriela Bar	Ethical AI designed transparently for data protection
Daria Onitui	Discerning the user's 'fashion initials': how neural networks in intelligent fashion recommender systems are privacy intrusive
Denitsa Kozhuharova	Automated decision-making in the field of integration: data protection & ethical aspects
Lucas Cardiel	Privacy the Age Artificial Intelligence and Robotics a Case Study: Social Companion Robots and the Right to Privacy

Psychology of Cyberspace - Room 133

chaired by **David Šmahel, Hana Macháčková**

Tena Velki, Marija Milić	Stress as trigger for risky online behavior in adolescents
Gabriella Kulcsár	Prevalence and prevention of bullying and cyberbullying in Hungarian schools according to school principals
Natalia Valkovicova, Nikol Kvardova, David Šmahel, Hana Machackova	Do Mobile Phone Bans Work? An Analysis of Phone-use Rules in Czech Schools

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New Media and Politics - Room 148

chaired by **Monika Metyková, Alena Macková**

Sakari Merik Ishetiar	The Destabilization Imperative: Why Authoritarian Regimes risk international condemnation to interfere in other countries
Felix Emeakpore Eboibi, Cynthia Nwabundo	Legal Implications of Shutting Down the Internet and Media during Electoral Process in Africa
Augusté Dementavičienė	How New Technologies Shape the Understanding of the Political Act: the Case of Digital Vigilantism

International Internet Law - Room 208

chaired by **Dan Svantesson**

Dan Svantesson	"I don't want to say I told you so, BUT..." - EU law and geo-location technologies
Erich Schweighofer, Jakob Zanol, Isabella Brunner	Cyberattacks and „Hackback“ - International Law from an Austrian Perspective
Michał Czerniawski	Scope of application of the right to be forgotten online

Law: Cybersecurity, Cyber-Warfare - Room 211

chaired by **Václav Stupka**

Jan Klouda	Organizations and states need consolidate to contest cyber attackers' readiness
Tihomir Katulić	NIS Directive in Croatian Law: Institutional Overlap and Other Open Questions
Ivana Kudláčková, Jakub Harašta, David Wallace	Cyber Weapons Review Requirement in Situations below the Threshold of an Armed Conflict
Donald Ferguson	A cyber kill chain framework cybersecurity legal analysis

Law: eCommerce, Digital Single Market - Room 214

chaired by **Pavel Loutocký**

Katarzyna Południak-Gierz	Problematic liability for performance of a personalized contract – the end of objectified legitimate expectations standard?
Zsolt Zódi	Regulatory Problems of Financial Robo-Advisors
Tomáš Kozárek	The main challenges of multilateral regulation of identity management
Newman Richards, Felix Eboibi	The Legal Implications of Electronic Taxation in Africa: Lessons from Europe and the United States

15:15 - 15:30 Coffee break

15:30 - 17:00 Parallel streams

Law: Intellectual Property On-Line (Art. 17 DSM)- Room 025

chaired by **Andreas Wiebe, Matěj Myška**

Matěj Myška	Exceptions and Limitations to Copyright Law and Art. 17 DSM Directive: How to Make it Work?
Andrea Katalin Tóth	Algorithmic Copyright Enforcement, Artificial Intelligence, and the Problem of Free Speech
Michal Koščík	Preservation of the cultural heritage and the use of out-of-commerce works in the era of DSM directive
Philipp Homar	Photographs of Works of Visual Art in the Public Domain

Usable Security and Privacy (Developer-centred security) - Room 038

chaired by **Lydia Kraus, Vashek Matyáš**

Peter Leo Gorski, Luigi Lo Iacono	On the Influence of Information Flows in Secure Software Development
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Matěj Grabovský, Martin Ukrop, Lydia Kraus

What Is (Un)Satisfying About Using TLS Libraries?

Martin Ukrop, Lydia Kraus, Vashek Matyas, Heider Ahmad Mutleq Wahsheh

Will You Trust This TLS Certificate? Perceptions of People Working in IT

Psychology of Cyberspace - Room 133

chaired by **David Šmahel, Hana Macháčková**

Christiane Atzmüller, Ulrike Zartler

Designing vignette experiments for measuring online civil courage among adolescents

Birgit Ursula Stetina, Zuzana Kovacovsky, Jan Aden, Anastasya Bunina, Armin Klaps

Women and Online-Pornography: Exploring gender differences in pornography users

Michal Ptaszynski

Automatic Cyberbullying Detection: A ten year struggle in trying to make Internet a safer place

Manipulative Techniques On-Line - Room 148

chaired by **Miroslav Mareš**

Petra Mlejnková

Vulnerability of the Czech society in context of disinformation

Arianna Rossi, Gabriele Lenzini

An explorative plunge into the dark (patterns) of social media

Legal Informatics - Room 208

chaired by **Erich Schweighofer, Jakub Harašta**

Ilaria Angela Amantea, Luigi Di Caro, Llio Humphreys

Modelling Norm Types and their Inter-relationships in EU Directives

Peter Kovacs, Adrienn Princz, Vivien Kardos

Examining the (legal) IT competences of law students

Tereza Novotná

Semantic similarity of texts of judicial decisions of the Czech Supreme Court

Law: Cybersecurity, Cyber-Warfare - Room 211

chaired by **Václav Stupka**

Václav Linkov

Human factors in cybersecurity of autonomous vehicles

David Kosar

ECtHR and Cybersecurity

Onur Dur

Definition of Cyber-Terrorism: Joint Reading of International Law and Insurance Law

Pavel Loutocký

Qualifications Framework as Crucial Step to Improve the Area of Cybersecurity

Liability v. Compliance in Engineering - Room 214

chaired by **Herbert Hrachovec, Andreas Kirchner**

Agata Justyna Ferreira

How to regulate blockchain - unique regulation for unique technology

Mikołaj Domagała

Autonomous vehicles as a remedy to combat communication exclusion

Rafał Tomasz Prabucki

To block, or not to block – hypeledger blockchain solutions for digital registers of shares. Case study from Polish LegalTech market

17:00 - 17:15

Coffee break

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17:15 - 18:45

Parallel streams

Usable Security and Privacy (User-centred security) - Room 038chaired by **Lydia Kraus, Vashek Matyáš****Lenka Knapová, Agáta Kružiková, Lenka Dědková, David Šmahel**

User Perceptions of Usability and Security of Authentication Methods for Mobile Banking on Smartphones

Psychology of Cyberspace - Room 133chaired by **David Šmahel, Hana Macháčková****Ondřej Javora, Kristina Volná, Tereza Hannemann, Cyril Brom**

Do they learn better if you let them choose? Effects of customization in learning games for children: Work-in-progress paper

Daniel le Roux, Douglas Parry

Towards an Integrated Framework of Technology Use Dimensions

Michael Henry

Instant Message Usage in Virtual Teams: A Systematic Review of Interruptions

Marthe Möller, Rinaldo Kühne, Susanne E. Baumgartner, Jochen Peter

A Social Identity Perspective on the Effect of Social Information on Video Enjoyment

Manipulative Techniques On-Line - Room 148chaired by **Miroslav Mareš****Klaudia Rosińska**

Fake news as an effect of the Crisis in Media Communication

Gabriele Lenzini, Yining Wu

An Operational Framework to Detect Distrustful Statements in Online Conversation

Legal Informatics - Room 208chaired by **Erich Schweighofer, Jakub Harašta****Ondřej Svoboda, Alex Ivančo**

AI Principles and emerging fragmentation of global AI governance

Nimrod Mike

Who is the maze runner?

Medical Data - Room 211chaired by **Walter Hötzenorfer****Melchiorre Alberto Monaca, Angela Busacca**

AI and data mining in the processing of health data for diagnostic and treatment

István Borocz

The exposed psyche and the constitutional grounds of mind-reading

Liability v. Compliance in Engineering - Room 214chaired by **Herbert Hrachovec, Andreas Kirchner****Tomasz Pawłowski, Martyna Kusak**

„Garbage in, garbage out” – role of quality of data in transparency of AI

Andreas Kirchner

Is Compliance Professional? An Inadvertent Flaw in Collectively Developed Software

Herbert Hrachovec

Collateral Damages in Internet Software Design

19:30

Conference dinner (upon a special registration - not included in the conference fee) - Restaurant Padowetz, Masarykova 34, Brno

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