

## Markus Christen – Curriculum Vitae (Dezember 2018)

University of Zurich  
 Institute of Biomedical Ethics & History of Medicine  
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### Personal information

*Name, degree:* Markus Christen, lic. phil. nat., PD Dr. sc. ETH  
*Born:* January 7<sup>th</sup> 1969 in Biel, Switzerland; Swiss citizen.  
*Civil status:* Married with Meret Ruprecht Christen, one son (Loren Tim Jeremias Christen)  
*Language skills:* German (first language), English (fluent), French (fluent)

### Education

1989 - 1996	University of Berne, Switzerland: Philosophy (main subject) & Physics, Mathematics, Biology (subsidiary subjects)	lic. phil. nat. (MSc)
2001 - 2006	Federal Institute of Technology (ETH) Zurich, Switzerland: Neuroinformatics (main subject) & History of Neuroinformatics	Dr. sc. ETH (PhD)
2007 - 2015	University of Zurich, Switzerland (University of Notre Dame, USA) Post-doctorate & Visiting Scholar in Ethics	Habilitation (PD)
2016 - 2018	University of Berne, Switzerland: CAS Research Management (completion in January 2018)	CAS

### Research interests

- *Empirical Ethics:* Developing and applying measures for moral competences and moral reasoning.
- *Neuroethics:* Ethical issues of brain interventions.
- *Ethics & Technology:* Normative issues of big data research and of ICT applications in various settings (insurance, health, security).
- *Serious Moral Games:* Use of video games for dilemma training & prosocial behavior training.
- *Data Analysis Methodologies:* Text mining, clustering, data visualization research & pattern recognition with a particular focus on data related to moral issues.

### Positions & Fellowships

*Current position:* Managing Director of the “Digital Society Initiative” and Research Group Leader at the Institute of Biomedical Ethics and History of Medicine of the University of Zurich.

2017 – present	Member of the “Center of Neuroscience” Zurich (NET research group)
2017 - present	Research Group Leader (Neuro-Ethics-Technology; NET) at the Institute of Biomedical Ethics and History of Medicine ( <a href="http://www.ibme.uzh.ch/de/ethik/forschung/Neuro-Ethics-Technology-(NET)-Research-Group.html">http://www.ibme.uzh.ch/de/ethik/forschung/Neuro-Ethics-Technology-(NET)-Research-Group.html</a> )
2016 - present	Managing Director of the “Digital Society Initiative” of the University of Zurich
2016 - present	Member of the Swiss governmental expert group “Expertengruppe zur Zukunft der Datenbearbeitung und Datensicherheit”
2015	Fellowship from the Global Oregon Faculty Collaboration Program of the University of Oregon; Department of Philosophy (July/August)
2014 - 2016	Research Network Manager at the University Research Priority Program Ethics: Network Ethics of Monitoring and Surveillance (NEMOS)
2014 - present	Member of the Human Brain Project’s Ethics Advisory Board

2011 - 2013	Visiting Scholar at the Moral Psychology Lab of Prof. Darcia Narvaez, Psychology Department of the University of Notre Dame, IN, USA
2011	Fellow of the NEH Institute for Advanced Topics in the Digital Humanities, University of Charlotte, NC, USA
2010 - 2016	Senior Research Fellow at the Institute of Biomedical Ethics of the University of Zurich
2007 - 2010	Post-doctoral researcher at the Graduate Program of Interdisciplinary Ethics Research of the University Research Priority Program Ethics, University of Zurich, Switzerland
2006 - 2011	Editor for all publications of “Dialog Ethik”, a private institute for ethics, Zurich, Switzerland
2006 - 2011	Contractor of the Investment Boutique Naissance Capital, Zurich, Switzerland
2005	Pre-doctoral Fellow at the Max-Planck-Institute of the History of Science in Berlin, Germany
2002	Participant of the Complex Systems Summer School of the Santa Fe Institute, NM, USA
2001 - 2005	PhD-Program of the Center of Neuroscience Zurich, Switzerland
1999 - present	Freelance journalist for various Swiss media (journals, magazines)
1998 - present	Business owner (BraInform: research and science communication), Biel, Switzerland
1998 - 2001	Project manager (various projects) at Kamber & Partner AG, Berne, Switzerland
1992 - 1998	Journalist & editor (politics, culture), Swiss TXT (electronic media), Biel, Switzerland
1989 - 1999	Journalist & editor (science, politics), Bieler Tagblatt (newspaper), Biel, Switzerland

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### ***Teaching & Supervision***

*I'm part of the ethics teaching of the Medical Faculty, University of Zurich (“Mantelstudium”).*

2018	Advanced Studies in Applied Ethics. Seminar “Big Data, Ethik und Recht” (September 1-2)				
2018	Member of the teaching team of the Jean Monnet Academic Module (ERASMUS program) “Emerging ‘moral’ technologies and the ethical-legal challenges of new subjectivities”				
2017 - present	Module «Science and Ethics: Inputs from Neuroscience, Genetics and Evolution», University of Geneva (usually in spring)				
2017 - present	Module “Ethics”, CAS “Data Product Design”, ZHAW Winterthur (usually in spring)				
2015 - present	ZAL 2: Leadership Responsibility, ETH Zürich Military Academy (usually in spring)				
2015 - present	Profession Ethics course EPI WohnWerk Zurich, Swiss Epilepsy Center (usually in fall)				
2014	Zurich Summer School: Empirical Ethics (June 2-6, University of Zurich)				
2013	Workshop “Methods in Empirical Ethics” (October 9, University of Zurich)				
2013	Zurich Spring & Summer School in Neuroethics (April 2-5 and June 3-7)				
2011 - present	Regular courses in bioethics (University of Zurich, Medical Faculty, usually in spring)				
2011	Teaching certificate (“Basiskurs Didaktik”), University of Zurich				
2010 - 2011	Neuroethics (University of Applied Sciences of Special Needs Education, Zurich, Switzerland)				
2008 - 2010	Seminar “Biology & Philosophy” (teaching-team-member, University of Zurich)				
2001 - 2005	Teaching assistant for courses in neuroinformatics (Prof. Ruedi Stoop, ETH Zurich)				
2000 - 2004	Profession ethics for engineers (Berne University of Applied Sciences)				
1998 - 2000	Freelance teaching courses, ethics for professionals (adult evening classes Biel)				
1995 - 1996	Teaching assistant, philosophy of science (University of Berne)				
Supervision	<table> <tr> <td>Post-Doc:</td> <td>Michele Loi (2016-present) Markus Kneer (2017-present) Eleonora Viganò (2018-present)</td> </tr> <tr> <td>PhD:</td> <td>Christian Ineichen (biomedical ethics, 2011-2016) Johannes Katsarov (philosophy, 2015-present) Ning Wang (2018-present)</td> </tr> </table>	Post-Doc:	Michele Loi (2016-present) Markus Kneer (2017-present) Eleonora Viganò (2018-present)	PhD:	Christian Ineichen (biomedical ethics, 2011-2016) Johannes Katsarov (philosophy, 2015-present) Ning Wang (2018-present)
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	Master:	Roxane Bachmann (medicine, 2016-2017) Nadine Corbach (medicine, 2015-2017) Samuel Eckstein (medicine, 2015-2017) Martina Gloor (medicine, 2015-2017) Manasseh Seidenberg (medicine, 2016-2017) Priyatharsan Yoganathan (medicine, 2015-2016)
Committee:	PhD:	David Schmocker (Psychology, 2015-present) Sascha Credé (GIS, 2016-present) Tatjana Weidmann-Hügler (medical ethics, 2016-present)
	Master:	Isabel Blatter (GIS, 2016-2017) Sandra Rossi (Psychology, 2018-present)

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***Raised Research Grants (total: 29)***

*I have so far raised research grants (as main or co-applicant) of in total CHF ~5,174,000 (equals ~4'657'000 €, exchange rate 1 CHF=0.90 €).*

2018	Swiss Network of International Studies: “Humanitarian use of drones: opportunities and challenges to integrate ethical values and commitments“ (main applicant; CHF 163,931)
2018	Armasuisse – Science and Technology (Swiss Department of Defense): „Beurteilung automatisierter Entscheidungsfindung in zeitkritischen Situationen mit hoher Unsicherheit – Entwicklung eines Demonstrators für Anwendungen im Sicherheitsbereich – Stufe 2“ (main applicant; CHF 140,000)
2018	Swiss Centre for Technology Assessment: Wenn Algorithmen an unserer Stelle entscheiden: die Herausforderungen der künstlichen Intelligenz (main applicant; CHF 160'000 & additional grant CHF 30,000)
2018	Swiss National Research Program Big Data: Creating an ELSI Task Force for the NRP-75 “Big Data” (main applicant; CHF 148,875)
2017	Federal Office of Public Health: Impact of consent system and donation registries on the organ donation rate (main applicant; CHF 9,000)
2017	Armasuisse – Science and Technology (Swiss Department of Defense): „Beurteilung automatisierter Entscheidungsfindung in zeitkritischen Situationen mit hoher Unsicherheit – Entwicklung eines Demonstrators für Anwendungen im Sicherheitsbereich “ (main applicant; CHF 120,000)
2016	Swiss National Research Program Big Data. “Between Solidarity and Personalization – Dealing with Ethical and Legal Big Data Challenges in the Insurance Industry” (main applicant; CHF 471,739)
2016	Armasuisse – Science and Technology (Swiss Department of Defense): „Labels for the Ethical use of Autonomous Robotic Systems in Security Applications“ (main applicant; CHF 50,000)
2016	Swiss Centre for Technology Assessment: Zivile Drohnen, eine zukunftsweisende Technologie? Herausforderungen und Perspektiven (co-applicant; CHF 140'000)
2016	Horizon 2020 – Coordination and Support Action. Consortium “CANVAS – Constructing an Alliance for Value-driven Cybersecurity”. Coordinator (€1,569,000)
2016	Staatssekretariat für Bildung, Forschung und Innovation. Koordinationsbeitrag Horizon 2020: CANVAS & deep3 (CHF 16,000)
2015	Cogito Foundation: Grant for the conference “Moral Technologies” for summer 2016 (main applicant; CHF 6,000)
2015	Centro Stefano Franscini, ETH Zurich: Grant for the conference “Moral Technologies” for summer 2016 (main applicant; CHF 31,500)
2015	Swiss National Science Foundation: Moral Sensitivity: Investigating Implications, Justifications, and Means of Improvements (main applicant; CHF 450,000)
2014	Armasuisse – Science and Technology (Swiss Department of Defense): Technology-mediated tragic decisions in military, police and disaster management (main applicant; CHF 5,000)
2013	Armasuisse – Science and Technology (Swiss Department of Defense): Moral decision making and stress reaction of UAV-pilots (main applicant; CHF 7,000)

- 2013 Federal Office of Public Health: Death in the context of organ transplantation (main applicant; CHF 20,000)
- 2013 Swiss Academy of Medical Sciences (SAMW): Technical requirement specification for a Serious Moral Game in medical ethics (main applicant; CHF 32,900)
- 2013 Fuller Theological Seminary School of Psychology: Developing a measure of intellectual humility, the elusive virtue (co-applicant; US\$ 252,000)
- 2011 Commission of Technology and Innovation: Optimization of the Online Idea-Generation Process for Innovations (co-applicant; CHF 198,391)
- 2011 Swiss Academy of Medical Sciences (SAMW): Moral Intelligence for praxis: developing a tool for moral sensibility (main applicant, with C. Tanner; CHF 50,000)
- 2011 SAMW: Deep Brain Stimulation in Switzerland (main applicant, CHF 2,500);
- 2010 University of Zurich: Committee of Academic Career Development (main applicant; CHF 72,695)
- 2010 Hasler-Foundation: Similarity analysis for novel clustering approaches: development of a tool for questionnaire analysis (main applicant, with T. Ott; CHF 44,000)
- 2010 Swiss Parkinson Association: Clinical and ethical issues of deep brain stimulation (main applicant, including patient brochure project; CHF 53,000)
- 2010 Swiss Science Foundation: Conference contribution for “Empirically Informed Ethics” (organizer, CHF 9,600)
- 2009 Cogito Foundation: The use of colors in neuroimaging (main applicant, with D.A. Vitacco; CHF 62,000)
- 2008 SAMW: Effects of Deep Brain Stimulation on the Moral Agency of Patients (main applicant; CHF 60,000)
- 2008 Cogito Foundation: Developing a measure of coherence of value systems (main applicant, with T. Ott; CHF 20,000)
- 2007 Swiss National Science Foundation: The neuroscientific investigation of the moral agent (grant written on behalf of Prof. J. Fischer; CHF 274,840)

*In addition, I have raised funds for applied projects of in total ~CHF 290,000 in the fields bioethics and technology assessment (contractors were Federal Office of Public Health, the National Advisory Commission on Bio-medical Ethics, the Swiss Centre for Technology Assessment and the University of Zurich).*

*From 2010 to 2013, I was member of the submission team of the EU Flagship proposal “FuturICT”, Focus Area Ethics (the project was among the four final Flagship proposals).*

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***(Co-)Organized Conferences, Workshops, and Panels 30 in total***

- 2018 ICT 2018 Conference, Networking Session “The Ethics Case of Cybersecurity – how should I decide?” (Vienna, December 5)
- 2018 Conference “The Cyborg Days” (Zürich, November 26-28)
- 2018 Panel “Living with Cybersecurity: A Shared Responsibility” (Tricity, Poland, September 24-26)
- 2018 Workshop “Cybersecurity Challenges in the Government Sphere - Ethical, Legal and Technical Aspects” (Bern, September 5-6)
- 2018 Workshop “New Security Paradigms Workshop” (Windsor, August 29-31; program committee)
- 2017 Collegium Helveticum Workshop “Dr. Cyber – oder wer sorgt eigentlich für unsere digitale Gesundheit?” (Zurich, November 22)
- 2017 Biel Philosophy Days: “Wer ist wir” (16.-19.11., Biel, Switzerland)
- 2017 Conference “Technology-enhanced Warfare: Perspectives from Ethics and Social Science” (Rome, October 17-18)
- 2017 Panel “Thematic Session on Serious Moral Games” as part of ISAGA 2017; International Simulation and Gaming Association (Delft, July 10-14)

- 2017 Brocher Foundation Workshop “Cybersecurity Challenges in Healthcare - Ethical, Legal and Social Aspects” (Geneva, June 12-14)
- 2017 Workshop “The Ethical use of Autonomous Robotic Systems in Security Applications” (Zurich, January 19-20)
- 2016 Conference “Designing Moral Technologies – theoretical, practical and ethical issues” (Monte Verità / Ascona, July 10-15)
- 2016 Panel “What are Ethical Issues Raised by Big Neuroscience?” at the Neuroethics Network Meeting (Paris, June 29 – July 1)
- 2015 Biel Philosophy Days: We and the animals (12.-15.11., Biel, Switzerland)
- 2015 Workshop “The transformation of war through information technology and its impact on humanitarian work” (Zurich, November 6-7)
- 2015 Workshop “Privacy and Data Protection in the Human Brain Project”, HBP Summit 2015 (30.09., Madrid)
- 2014 Workshop “Technology-mediated tragic decisions in military, police and disaster management” (Zurich, October 21-22)
- 2014 Workshop “The Ethics of Moral Technologies” (Zurich, May 28)
- 2013 Panel “Serious Moral Games – Assessing the Use of Video Games for Understanding and Influencing Human Morality” (National PCA/ACA Conference, Washington DC, March 27-30)
- 2011 Workshop “Farbeinsatz im Neuroimaging“ [Color in Neuroimaging] (Zurich, June 30 – July 1)
- 2010 Workshop: “Philosophical Consequences of Empirically Informed Ethics” (Zurich, March 29-31)
- 2009 Conference: „The Role of the University in Our Time. The Legacy of Joseph Ben David as a Guideline for Today's Challenges” (Monte Verita, July 21-26)
- 2009 Biel Philosophy Days: “Where do I live? Philosophy and Space” (Biel, November 13-15)
- 2009 Conference: “Nonlinear Dynamics of Electronic Systems – NDES 2009” (Rapperswil, June 21-23)
- 2008 Workshop „Effects of DBS on moral agency: Developing a methodology of grasping and analyzing the problem” (Zurich, December 12)
- 2007 Biel Philosophy Days: “I buy, therefore I am. Philosophy and Economy” (Biel, November 09-11)
- 2005 Biel Philosophy Days: “Man is a wolf to man. Philosophy and Theology” (Biel, May 20-21)
- 2003 Biel Philosophy Days: “What is beautiful? Philosophy and Art” (Biel, October 17-19)
- 2003 Conference: “Nonlinear Dynamics of Electronic Systems – NDES 2003” (Scuol, May 19-21)
- 2001 Biel Philosophy Days: “Philosophy and Psychology – walking at the edge” (Biel, October 19-21)

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***Invited Talks (48 in total)***

*Talks in internal colloquia at the University/ETH Zurich are not contained in this list. Talks related to accepted conference contributions are not contained in this list; see “Publication List / Other Scientific Contributions”*

- 2018 Zurich, ICMF-Fachtagung Cyber Security: “Ethische Herausforderungen der Cybersecurity” (Zürich, November 22)
- 2018 Zurich University of the Arts: “Chances and risks of Big Data in industrial design” (Zürich, November 20)
- 2018 University of Applied Sciences of Special Needs Education: “Ethische Fragen von Robotik” (Zurich, November 14)
- 2018 University Zurich, Workshop Digital Health and Shared Decision-Making: “Definition and scope of Digital Health” (Zürich, September 19)
- 2018 University of Notre Dame, London Global Gateway, Conference Practicing Science: Virtues, Values, and the Good Life: “Does the Digitization of Science Affect Scientific Virtue?” (London, August 11)
- 2018 Law & Robots Workshop 2018: “Diskriminierung durch Big Data im Versicherungswesen? – Ethische Überlegungen“ (Basel, May 16)

- 2018 Meeting of the NFP Big Data: “The Big Data ELSI Task Force“ (Bern, May 8)
- 2018 Jean Monnet Module: “Neuroscientific research in the EU ethical-legal framework “ (Milano, March 12)
- 2017 University of Notre Dame, Rome Global Gateway; Conference Technology-Enhanced Warfare: Perspectives from Ethics and Social Science: “Criteria for the Ethical Use of (Semi-) Autonomous Systems in Security and Defense” (Rome, October 17).
- 2017 Kickoff-Meeting of the NFP Big Data: “Big Data and Ethics – a framework“ (Bern, May 9)
- 2017 EAB Meeting of the Human Brain Project: “An Evaluation System for the Ethical use of Autonomous Robotic Systems in Security Application“ (Bristol, March 29)
- 2017 Inaugural lecture (Antrittsvorlesung) University of Zürich: “Serious Moral Games – Mit digitalen Werkzeugen Moral verstehen und beeinflussen“ (Zurich, March 18)
- 2017 Basler & Partner, Montags-Kolloquium Wirtschaft & Gesellschaft: “Ethische Herausforderungen für Unternehmen im Umgang mit Big Data“ (Zurich, March 13)
- 2016 Christen M: Contributor to the Workshop “Gezielte Veränderungen der Persönlichkeit mittels Hirneingriff und Würdeschutz“, Annual Meeting of the AEM (Bielefeld, September 22)
- 2016 Christen M: The emotional and moral flavor of epistemic values in science and art. Colloquium “Developing Virtues in the Practice of Science” (Notre Dame, September 1-3)
- 2016 Christen M: The influence of color-manipulation on data interpretation in neuroimaging and geographic information visualization. Potsdam Visualization Workshop (Potsdam, May 20)
- 2016 Christen M: Co-Utility through Serious Game based Training of Moral Competences in Finance. Workshop Co-Utility, conciliating individual freedom and common good in the information society (Tarragona, March 10-11)
- 2015 Christen M: Ethical issues of big data driven research in brain-related diseases. Workshop The genomics of human cognition and psychiatric disease (Geneva, December 9)
- 2015 Christen M: The influence of color-manipulation on data interpretation in neuroimaging and geographic information visualization. Annual Meeting of the International Neuroethics Society (Chicago, October 16)
- 2015 Christen M / Alfano M: Moral Technologies. Workshop “Compassion Week” (Eugene OR, August 06)
- 2015 US Air Force Academy, RPA-Meeting: “Measuring the moral impact of operating ‘drones’ – Overview of result” (Colorado Springs, June 30 - July 1)
- 2014 University of Berne, 6<sup>th</sup> Symposium of the Graduate School for Health Sciences: “How Health Sciences produce evidence: Some observations from the point of view of neuroethics” (Münchenwiler, November 27)
- 2014 University of Tübingen, Conference Debunking-Argumente in der Moralphilosophie: “The neuroscience of ethics as a basis for moral behavior interventions? An assessment of moral enhancement. (Tübingen, October 3-4)
- 2014 Stiftung Risiko-Dialog, 3D-Druck: Revolution in Technik, Recht und Medizin?: „Ethische Aspekte des Bioprinting“ [Ethical aspects of bioprinting] (Winterthur, August 27)
- 2013 University of Notre Dame, Cognition, Brain, and Behavior Study Group Meeting: “Thesaurus-based value maps as an instrument for psychological research (Notre Dame, March 25)
- 2013 University of Zurich, Conference Xenomelia, Neuropsychiatric and ethical aspects of healthy limb amputation: “Ethical aspects of body modifications” (Zurich, March 15)
- 2013 Harvard Medical School, Bioethics Research in Progress Seminar: “The global clinical and ethical practice of Deep Brain Stimulation” (Boston, January 30)
- 2013 Harvard University, Division of Medical Ethics Seminar: “Serious Moral Games in Ethics – Video games as a tool for research and teaching” (Boston, January 28)
- 2012 University of Alabama, Philosophy Department: “Measuring coherence and the topology of belief spaces: Ideas and Projects” (Birmingham, October 10)
- 2012 University of British Columbia, National Core for Neuroethics Seminar: “The Zurich Neuroethics Initiative. Projects and Ideas” (Vancouver, August 9)

- 2012 Northwestern University, Seminar of research group Douglas Medin: "A few thoughts about similarity and sorting" (Evanston, July 13)
- 2012 University of Notre Dame, Character – an interdisciplinary panel: "Measuring character change in neuroscience" (Notre Dame, April 3)
- 2010 Pedagogic University Zurich, Research Day: „Moral macht uns sicher, Ethik unsicher?!“ [Morality gives us confidence, ethics not?!] (Au, November 5)
- 2010 Canton of Aargau, Leadership Seminary: „Das Gehirn und die Moral. Skizze eines Wechselverhältnisses“ [Brain and Morality – drafting an interrelation] (Ermatingen, January 21)
- 2009 Canton of Aargau, Continuing education psychiatric services: „Von einer neurowissenschaftlich inspirierten Psychiatrie zu moral enhancement?“ [From a neuroscientifically inspired psychiatry to moral enhancement?] (Aarau, August 20)
- 2009 Children Hospital Zurich, Symposium Ethiktransfer in Organisationen des Gesundheitswesens am Beispiel des Kinderspitals Zurich: „Ist geteilte Verantwortung möglich?“ [Is shared responsibility possible?] (Zurich, May 28)
- 2009 University of Hamburg, event series Moralität, ein Innen- oder Außenfaktor?: „Eine Neurobiologie der Moral? Fragen an ein aktuelles Projekt“ [A neurobiology of morality? Questioning a project] (Hamburg, April 14)
- 2008 University of Tübingen, event series Neurowissenschaften und Bioethik: „Methodenkritik der Neurowissenschaft am Beispiel der Bildgebung und empirischen Moralforschung“ [Criticizing methods in neuroscience – the examples imaging and moral research] (Tübingen, November 4)
- 2008 University Hospital Zurich, Constantin von Monakow Zyklus: „Ein biologisches Gewissen? Anmerkungen aus ethischer Sicht [A biological consciousness? Remarks from the point of view of neuroscience] (Zurich, April 12)
- 2008 Ludwigshafen, European Spring Event on Neuroethics 2008: "Autonomy and Moral Agency. Is the Brain More than a Complex System?" (Ludwigshafen, March 15)
- 2007 Evangelische Akademie Iserlohn, Workshop Wenn Gehirn und Computer verschmelzen: „Technisierung von Körper und Seele. Was bleibt menschlich am Menschen? [Mechanizing body and soul. What remains human in the human being?] (Iserlohn, December 7-9)
- 2007 University of Freiburg, BMBF-Klausurwoche Die Technisierung des Gehirns: „Technisierte moral agents? Mögliche Wechselwirkungen zwischen einer ‚Neurobiologie der Moral‘ und dem therapeutischen Einsatz von Neurotechnologien [Engineered moral agents? Interrelations between the neuroscience of ethics and the therapeutic use of neurotechnologies] (Freiburg, September 16-23)
- 2006 University of Zurich, Research colloquium Foundations of moral orientation: „Autonomie und moral agency aus Sicht der Neurowissenschaft. Versuch einer Klarstellung“ [Autonomy and moral agency from the point of view of neuroscience. A clarification] (Zurich, June 16-17)
- 2005 University of Zurich, Research colloquium Foundations of moral orientation: „Abklärung des möglichen Beitrags der Neurowissenschaft und der Verhaltensforschung zum Verständnis moralischer Orientierung [Analyzing the contribution of neuroscience for understanding morality] (Zurich, December 9-10)
- 2005 Rhenaphotonics Bio-Opto 2005 conference: "What is neuroinformatics – and how can it be useful for biophotonics?" (Paris, September 28)
- 2005 Max-Planck-Institute for History of Science, colloquium: „Spike patterns“ als Träger neuronaler Information – Ursprung und Ausbreitung des „temporal coding“ in der Hirnforschung [„Spike patterns“ as carriers of neuronal information – The emergence of temporal coding in brain science] (Berlin, February 28)
- 2003 International Workshop Ethics and the European Space: "How neuroscience impacts ethics" (Les Treilles, April 3-9)
- 2003 University of Basel, Seminary: "Maschinenautonomie. Überlegungen zum 'Selbst' eines Roboters [Machine autonomy and the 'self' of a robot] (Basel, January 22)

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**Invited Expert (21 in total)**

- 2018 National Cybersecurity Strategy – planning event topic “Kompetenz- und Wissensaufbau”: invited expert (Bern, December 6)
- 2018 ARCHE 2018, Robotic support in disaster management: invited expert (Wangen a.A., July 5)
- 2018 Swiss Armed Forces, Arms Control and Disarmament Workshop: invited expert (Bern, June 4)
- 2017 University of Zurich, “Tag der Lehre”: Panel “Teaching in the digital age” (Zurich, October 1)
- 2017 Durham University, Institute of Advanced Study: Virtues in the Practice of Science Colloquium: invited expert (Durham, September 7-8)
- 2017 Workshop Research Integrity at Paul Scherrer Institute: “Big data ethics”: invited expert (Villigen, May 16)
- 2017 Centre for the Study of Financial Innovation: “Using “Big Data” in insurance. A lunchtime round-table on the upside and downside”: panelist (London, May 3)
- 2016 ERA-NET NEURON Project “Psychiatric Neurosurgery – Ethical, Legal and Societal Issues”: invited expert (Berlin, June 27-28)
- 2016 Horizon 2020 – Teilnahmemöglichkeiten im Bereich Social Sciences and Humanities (SSH); EUresearch: invited speaker (Zurich, June 16)
- 2015 Swiss Re, Big Data and Privacy Compliance in Insurance Roundtable (Zurich, October 27)
- 2015 CHU Pitié-Salpêtrière, Conference Clinical Neuroethics: Bench to Bedside: Participant in the panel “How Should We Address the Special Challenges of Using Neuroscience-based Therapies in the Developing Brains of Children and Adolescents?” (Paris, June 17-19)
- 2015 Brocher Foundation, Workshop Building a neuroscience community: collaborative modelling, model sharing, brain atlases and data repositories: Invited expert (Geneva, June 11-13)
- 2014 Brocher Foundation, Workshop Neuroethics and the Human Brain Project: invited expert (Geneva, March 24-25)
- 2014 7<sup>th</sup> International Conference on Computers, Privacy and Data Protection: panelist “Privacy in Mobility and Location Data” (Brussels, January 22-24)
- 2013 BMBF-Förderschwerpunkt Mensch-Technik-Interaktion für den demografischen Wandel, Workshop Wandel von Autonomie und Kontrolle durch neue Mensch-Technik-Interaktion: invited expert (Berlin, November 21-22)
- 2011 Expert Workshop Deep Brain Stimulation in Psychiatrie. Guidance for responsible research and application: invited expert (Bonn, January 20-21)
- 2010 BID-Workshop “Brains in Dialogue on Deep Brain Stimulation”: invited expert (Warsaw, September 20-21)
- 2008 Workshop On the ethical and philosophical relevance of neuroscience: invited expert (Bonn, October 3-5)
- 2008 Convention Identität: Vergessen und Gedächtnis. Moderne Perspektiven aus den Neurowissenschaften oder neuer Wein in alten Schläuchen?: invited expert (Lovenjo di Menaggio, July 17-20)
- 2007 Forschungskolloquium Der moral agent. Dimensionen seiner Entwicklung: Invited expert (Zurich, June 22-23)
- 2007 Swiss Technology Assessment Expert Seminar Die Verselbständigung des Computers: invited expert (Zurich, April 23-24)

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**Invitation at Public Events (moderator, speaker etc., 24 in total)**

- 2018 Public event series “Ist gut nicht gut genug?": Hirndoping, speaker and panelist (Pfäffikon, July 6)
- 2018 Bern, Ethics & Leadership Workshop “Spielerischer Ernst - Computerspiele zum Training moralischer Kompetenzen von Mitarbeitenden”: “Moralische Sensitivität - was ist das?”, speaker (Bern, July 3)



- 2018      Veranstaltungszyklus Autonomie in der Medizin: “Autonomie und Digitalisierung“, panelist (Bern, June 15)
- 2018      Reatch NanoTalks: “Criteria for the Ethical Use of (Semi-) Autonomous Systems in Security and Defense“, speaker (Zurich, March 29)
- 2018      Zurich, PolitTalk “Digitales Zürich: “Daten – Rohstoff der Zukunft“, speaker (Zurich, January 23)
- 2017      Zurich, Porny Days Festival: “Panel Sex Robots“, panelist (Zurich, November 25)
- 2017      Akademie Berlingen: “Ethik und Prognose“, speaker (Berlingen, October 25)
- 2017      Digital Festival: “Panel Big Data“, panelist (Zürich, September 14)
- 2017      Parlamentarier Dinner ‘parldigi’: “Digitalisierung der Politik: Chance oder Ende der Demokratie?“, panelist (Bern, March 8)
- 2016      Ethik-Höck “Meine Daten, Deine Daten – Ethik im Zeitalter von Big Data“, speaker & moderator (Zurich, May 25)
- 2016      Talk im Turm “Revolution der Rechner. Wie Big Data unser Leben verändert“, panelist (Zurich, January 18)
- 2016      Veranstaltungsreihe „Mensch nach Mass“: Gehirndaten, panelist (Zurich, January 12)
- 2015      Kompetenzzentrum Menschenrechte, Veranstaltungsreihe Das Recht auf Privatsphäre im digitalen Zeitalter: „Recht auf Vergessen und Privacy – grundsätzliche Überlegungen“, speaker (Zurich, October 10)
- 2014      ECCE HOMO Rahmenprogramm: „Mensch 2.0 – ein Sozialroboter im Daten-Mahlstrom?“, speaker (Zurich, April 6)
- 2014      Zurich Salon: “Limits and potential of neuroscience“, panelist (Zurich, March 27)
- 2014      Swiss Medical Students’ Convention, Zürich: “Du - ein Sklave deines Gehirns?“, panelist (Zurich, March 22)
- 2013      THS-Club Freiburg (patient organization): “Mit THS leben“, speaker (Freiburg, March 18)
- 2013      Café philosophique Solothurn: „Wieviel Tier steckt in mir?“, speaker & moderator (Solothurn, March 3)
- 2009      Neue Helvetische Gesellschaft: „Bedroht die Hirnforschung unser Menschenbild?“, annotator (Bern, February 16)
- 2008      Symposium: „Hirnforschung – Chancen und Risiken für das Recht“, moderator (Zurich, March 4)
- 2006      VH-Zurich Seminar series: „Einblicke in die Seele und ihre Aktivitäten“, speaker (Zurich, November 8)
- 2006      Symposium „Hirnforschung und Menschenbild“, annotator (Fribourg, October 12-14)
- 2005      St. Gallische Naturwissenschaftlichen Gesellschaft „Kosmos Gehirn“: speaker (St. Gallen, November 9)
- 2004      Series: „Wissenschaft kontrovers: Ist nun plötzlich alles nano?“, annotator (Zurich, May 10)

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***Service as Reviewer / Editor***

*Ad-hoc reviewer:* AJOB Neuroscience; Computers in Human Behavior, Ethical Theory and Moral Practice; Ethics and Information Technology; Ethik in der Medizin; Frontiers in Human Neuroscience; Frontiers in Psychology; Frontiers in Robotics and AI; Frontiers in Systems Neuroscience; Journal of Medical Ethics; Journal of Experimental & Theoretical Artificial Intelligence, Nanomedicine: Nanotechnology, Biology, and Medicine; Neuroethics; Philosophy and Technology; The Journal of Moral Education, The Journal of Nutrition, Health and Aging

*Editorial board:* Cambridge Quarterly of Healthcare Ethics; Clinical Neuroethics

*Grant reviewer:* Ludwig Boltzmann Gesellschaft, Austria; Italian Ministry of Health, Italy, Branco Weiss Fellowship

*Advisory board:* Human Brain Project (EU Flagship project), Ethics Advisory Board (2013-present); Co-Utility project (Universitat Rovira i Virgili, funded by Templeton World Charity Foundation), Scientific

Advisory Board (2015-present); Developing Virtues in the Practices of Science (University of Notre Dame, funded by Templeton Religion Trust), Expert Panel of Advisors (2016-present)

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### **Memberships**

2013	Society for Applied Philosophy
2012	Society of Neuroscience
2011	International Neuroethics Society
2005	Swiss Philosophical Society (section Berne)
2001	Swiss Society of Biomedical Ethics (SSBE)
1997	Swiss Association for Philosophy of Law and Social Philosophy
1993	Impressum: Swiss Journalist Association

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### **Various Issues**

2015	£1000 Lundbeck Travel Award for an outstanding abstract at the International Neuroethics Society Annual Meeting 2015
2012	\$500 Travel Award for an outstanding abstract at the International Neuroethics Society Annual Meeting 2015
2001 - 2004	Member of the working group „Foundations of medical ethics” of the SSBE
1998	Participant of the “Summer School of Medical Ethics” (Bellinzona, Switzerland)
1998	Participant of the „5. Ecole Européenne de Systémique“ (Neuchâtel, Switzerland)
1992	Winner of the Swiss Youth Press Award „Goldene Feder” (“golden pen”)
1991/94/97	Workshop co-leader at the European Youth Festival „Spiert Aviert” (Engadin, Switzerland)
1991/88	Swiss Youth Research Competition: Three theses on the idea of man of the Swiss Army. Rating: excellent, special award “General Guisan”/ Alte Aare Report. Rating: excellent

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### **References**

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## Markus Christen – Publications (December 2018)

*The publications are classified as follows: peer-reviewed articles for journals, peer-reviewed contributions for books or conference proceedings, invited contributions, books (including edited books) and other publications (abstracts/posters for conferences with peer review, book reviews, working papers). Publications written as science journalist (>350) are not listed here, see <http://www.encyclog.com/arbeit/journalismus/bisherige-arbeiten>*

*Most publications can be downloaded from: <http://www.encyclog.com/forschung/person/publikationen>*

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### Submitted (14)

- Katsarov J, Biller-Andorno N, **Christen M**, Eichinger T, Schmocker D: Conception of a video game to Enhance medical ethics training. In Wessler A. et al.: Clash of Realities (Tagungsband), submitted
- Loi M, **Christen M**, Kleine N, Weber K: Cybersecurity in health – disentangling value tensions. Orbit, submitted
- Alfano M, **Christen M**: A framework for understanding and evaluating moral technologies. Ethics and Information Technology, submitted.
- Katsarov J, Bachmann R, Ineichen C, **Christen M**: Soziale Kompetenzen in der Medizin: Inwiefern dürfen wir sie einfordern? Ethik in der Medizin, submitted
- Katsarov J, **Christen M**: Promoting the Moral Sensitivity of Police and Military Personnel. Submitted to: “An Anthology on Operational Morals”
- Schmocker D, Tanner C, **Christen M**, Katsarov J: An Advanced Measure of Moral Sensitivity in Business. European Journal of Psychological Assessment, submitted
- Narvaez D, Woodbury R, Cheng Y, Wang L, Kurth A, Gleason T, Gutzwiller-Helfenfinger E, **Christen M**, Näpflin C: Provision of the Evolved Developmental Niche: Moral Socialization, Social Maladaptation and Social Thriving in Three Countries. Submitted to: International Journal of Behavioral Development
- Loi M, **Christen M**. Choosing how to discriminate: fair algorithms and risk prediction with big data in the insurance sector. Journal of Business Ethics, submitted
- Loi M, **Christen M**. Two concepts of group privacy. CPDP Conference, submitted
- Loi M, **Christen M**. How to include ethics in machine learning research. ERCIM News, submitted
- **Christen M**. How does the digitalization of science affect scientific virtues? In: Practicing Science: Virtues, Values and the Good Life.
- Ineichen C, **Christen M**. Neuromodulation of the “moral brain” – evaluating bridges between neural foundations of moral capacities and normative aims of the intervention. In: Holtzman GS, Hildt E /eds.): Does Neuroscience Have Normative Implications? Springer, submitted.
- **Christen M**, Gordijn B, Loi M (eds.). The Ethics of Cybersecurity. Submitted to Springer
- Loi M, **Christen M**. Ethical frameworks for cybersecurity. In: Christen M, Gordijn B, Loi M (eds.). The Ethics of Cybersecurity. Submitted to Springer

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### Original Publications – Journals (45)

1. **Christen M**, Guillaume, M, Jablonowski, M, Lenhart P, Moll K (2018): Drohnen als Partner im Luftraum. Rahmenbedingungen für eine Regulierung des zivilen Drohnenwesens. Zeitschrift für Technikfolgenabschätzung in Theorie und Praxis 03/18: in press
2. **Christen M**, Gloor M (2018): Ethische Relevanz und faktische Mängel in der Kommunikation ethisch relevanter Aspekte von Spezifika der Organspende nach Kreislaufstillstand. Ethik in der Medizin 30(4), 343-361
3. **Christen M** (2018): Comparing cultural differences with domain-specific differences of appreciating and understanding values. Journal of Moral Education, in press; <https://doi.org/10.1080/03057240.2018.1469477>

4. Müller S, Bittlinger M, Brukamp K, **Christen M**, Friedrich O, Gruber M-C, Leefmann J, Merkel G, Nagel SK, Stier M, Jox RJ (2018): Neuroethik - Geschichte, Definition und Gegenstandsbereich eines neuen Wissenschaftsgebiets. *Ethik in der Medizin*, in press; <https://doi.org/10.1007/s00481-018-0477-9>
5. Seifert A, **Christen M**, Martin M (2018): Willingness of Older Adults to Share Mobile Health Data with Researchers. *GeroPsych*, 31(1), 41-49. doi: 10.1024/1662-9647/a000181
6. **Christen M**, Alfano M, Robinson B (2017): A Cross-Cultural Assessment of the Semantic Dimensions of Intellectual Humility. *AI & Society*, e-pub first; <https://doi.org/10.1007/s00146-017-0791-7>
7. Alfano M, Iurino K, Robinson B, Stey P, Yu, Feng, **Christen M**, Lapsley D (2017): Development and Validation of a Multi-dimensional Measure of Intellectual Humility. *PLoS One*, 12(8): e0182950
8. Katsarov J, **Christen M**, Schmocker D, Tanner C, Mauerhofer R (2017): Training Moral Sensitivity Through Video Games – A Review of Suitable Game Mechanisms. *Games and Culture*, 1-23
9. Ineichen C, **Christen M**, Tanner C (2017): Measuring Value Sensitivity in Medicine. *BMC Medical Ethics* 18(1): 5
10. **Christen M**, Narvaez D, Gutzwiller E (2016): Comparing and integrating biological and cultural moral progress. *Ethical Theory and Moral Practice* 20: 55
11. Brugger P, **Christen M**, Jellestad L, Hänggi J (2016): Limb amputation and other disability desires as a medical condition. *Lancet Psychiatry* 3(12): 1176–1186
12. Ineichen C, Baumann-Vogel H, **Christen M** (2016): Deep Brain Stimulation: In search of reliable instruments for assessing complex personality-related changes. *Journal of Brain Sciences* 6: 40, doi:10.3390/brainsci6030040
13. Hunt M, Pringle J, **Christen M**, Eckenwiler L, Schwartz L, Davé A (2016): Ethics of emergent information and communication technology applications in humanitarian medical assistance. *International Health* 8: 239-245 (IF: 1.299, 2014)
14. **Christen M**, Narvaez D, Tanner C, Ott T (2016): Mapping Values: Using Thesauruses to Reveal Semantic Structures of Cultural Moral Differences. *Cognitive Systems Research* 40: 59-74 (IF: 1.311, 2014)
15. **Christen M**, Biller-Andorno N, Bringedal B, Grimes K, Savulescu J, Walter H (2016): Ethical Challenges of Simulation-Driven Big Neuroscience. *American Journal of Bioethics – Neuroscience* 7(1): 5-17 (IF: 3.597, 2012)
16. Robinson B, Vasko SE, Gonnerman C, **Christen M**, O'Rourke M (2016): Human Values and the Value of Humanities in Interdisciplinary Research. *Cogent Arts & Humanities* 3: 1123080
17. Müller S, Riedmüller R, Walter H, **Christen M** (2015): An ethical evaluation of stereotactic neurosurgery for anorexia nervosa. *American Journal of Bioethics – Neuroscience* 6(4): 50-65 (IF: 3.597, 2012)
18. Ineichen C, **Christen M** (2015): Analyzing 7000 texts on Deep Brain Stimulation: what do they tell us? *Frontiers in Integrative Neuroscience* 9: Article 52
19. **Christen M**, Niederberger T, Ott T, Aryobsei S, Hofstetter R (2015): Micro-text Classification between Small and Big Data. *NOLTA IEICE E6(4)*: 1-14
20. **Christen M**, Ineichen C, Tanner C (2014): How moral are the principles of biomedical ethics? *BMC Medical Ethics* 15: 47 (IF: 1.705, 2012)
21. **Christen M**, Ineichen C, Bittlinger M, Bothe H-W, Müller S (2014): Ethical Focal Points in the International Practice of Deep Brain Stimulation. *American Journal of Bioethics – Neuroscience* 5(4): 65-80 (IF: 3.597, 2012)
22. **Christen M**, Faller F, Götz U, Müller C (2014): Outlining a Serious Moral Game in Bioethics. *ICST Transactions on Ambient Systems* 14(3): e4 (not listed in the Journal Citation Report)
23. Müller S, Walter H, **Christen M** (2014): When benefitting a patient increases the risk for harm for third persons – the case of treating pedophilic Parkinsonian patients with deep brain stimulation. *International Journal of Law and Psychiatry* 37: 295-303 (IF 0.704, 2012)
24. **Christen M**, Ott T, Schwarz D (2013): A new measure for party coherence: applying a physics-based concept to the Swiss party system, 2003-2008. *Advances in Complex Systems* 16, 1350011 (27 pages) (IF 0.647, 2012)
25. **Christen M**, Vitacco DA, Huber L, Harboe J, Brugger P (2013): Colorful brains: 14 years of display practice in functional neuroimaging. *NeuroImage* 73: 30-39 (IF: 6.252 , 2012)

26. Van den Hoven J, Helbing D, Pedreschi D, Domingo-Ferrer J, Gianotti F, **Christen M** (2012): Futur-ICT – The Road towards Ethical ICT. *European Physical Journal - Special Topics* 214: 153-181 (IF: 1.796, 2012)
27. **Christen M**, Glock HJ (2012): The (limited) space for justice in social animals. *Social Justice Research* 25: 298-326 (IF: 0.829, 2012)
28. **Christen M**, Müller S (2012): Current status and future challenges of deep brain stimulation in Switzerland. *Swiss Medical Weekly* 142: w13570 (IF: 1.821, 2012)
29. **Christen M**, Bittlinger M, Walter H, Brugger P, Müller S (2012): Dealing with Side Effects of Deep Brain Stimulation: Lessons Learned from Stimulating the STN. *American Journal of Bioethics - Neuroscience* 3(1): 37-43 (IF: 3.597, 2012)
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31. **Christen M**, Müller S (2011): Single cases promote knowledge transfer in the field of DBS. *Frontiers in Integrative Neuroscience*, May 2011, 5, Article 13 (not listed in the Journal Citation Reports)
32. Müller S, **Christen M** (2011): Deep Brain Stimulation in Parkinsonian patients – Ethical evaluation of stimulation-induced personality alterations. *American Journal of Bioethics - Neuroscience* 2(1): 3-13 (IF: 3.597, 2012)
33. Müller S, **Christen M** (2010): Mögliche Persönlichkeitsveränderungen durch Tiefe Hirnstimulation bei Parkinson-Patienten [Possible personality alternations resulting from Deep Brain Stimulation]. *Nervenheilkunde* 29(11): 779-783 (IF: 0.281, 2012)
34. **Christen M**, Neuhaus Bühler R, Stump Wendt B (2010): Warum eine pauschale Entschädigung für Lebendorganspender fair ist [Why a lump-sum compensation for living organ donors is fair]. *Bioethica Forum* 3(2): 10-15 (not listed in the Journal Citation Report)
35. **Christen M** (2008): Varieties of Publication Patterns in Neuroscience at the Cognitive Turn. *Journal of the History of the Neurosciences* 17: 207-225 (IF: 0.282, 2012)
36. **Christen M** (2007): Autonomie – eine Aufgabe für die Philosophie [Autonomy – A philosophical issue]. *Studia philosophica* 66: 175-194 (not listed in the Journal Citation Report)
37. **Christen M**, Nicols A, Kendrick K, Ott T, Stoop R (2006): Odour encoding in olfactory systems beyond synchronization. *NeuroReport* 17(14): 1499-1502 (IF: 1.404, 2012)
38. **Christen M**, Kohn A, Ott T, Stoop R (2006): Measuring spike pattern reliability using the Lempel-Ziv-distance. *Journal of Neuroscience Methods* 156(1-2): 342-350 (IF: 2.114, 2012)
39. **Christen M**, Ott T, Kern A, Stoop N, Stoop R (2005): Periodic economic cycles: the effect of evolution towards criticality, and control. *Journal of Statistical Mechanics: theory and experiment*, P11013 (IF: 1.866, 2012)
40. **Christen M**, Kern A, Nikitchenko A, Steeb W-H, Stoop R (2004): Fast Spike Pattern Detection Using the Correlation Integral. *Physical Review E* 70: 011901-1-7 (IF: 2.313, 2012)
41. **Christen M** (2004): Schuldige Maschinen? Autonome Systeme als Herausforderung für das Konzept der Verantwortung [Guilty machines? Autonomous systems as a challenge for the concept of responsibility]. *Jahrbuch für Wissenschaft und Ethik* 9: 163-191 (not listed in the Journal Citation Report)
42. Van der Vyver J-J, **Christen M**, Stoop N, Ott T, Steeb W-H, Stoop R (2004): Towards genuine machine autonomy. *Robotics and Autonomous Systems*, 46(3): 151-157 (IF: 1.156, 2012)
43. **Christen M** (2003): Die Ontologie künstlicher Körper [The ontology of artificial bodies]. *Studia Philosophica* 63: 65-82 (not listed in the Journal Citation Report)
44. Stoop R, Blank DA, van der Vyver J-J, **Christen M**, Kern A (2003): Synchronization, Chaos and Spike Patterns in Neocortical Computation. *Journal of Electrical & Electronic Engineering* 3(1): 693-698 (not listed in the Journal Citation Report)
45. Stoop R, Blank D, Kern A, van der Vyver J-J, **Christen M**, Lecchini S, Wagner C (2002): Collective bursting in layer IV. Synchronization by small thalamic inputs and recurrent connections. *Cognitive Brain Research* 13: 293-304 (IF 2.823, 2012)

46. **Christen M**, Blumer H, Hauser C, Huppenbauer M (2019): The ethics of Big Data applications in the consumer sector. In: Braschler M, Stadelmann T, Stockinger K(eds.): Applied Data Science - Lessons Learned for the Data-Driven Business. Springer, in press
47. Iurino K, Robinson B, **Christen M**, Stey P, Alfano M (2018): Constructing and Validating a Scale of Inquisitive Curiosity. In: Inan I, Watson L, Whitcomb D, Yigit S (eds): The Moral Psychology of Curiosity. Lanham MD: Rowman & Littlefield International, 100-120
48. **Christen M**, Domingo-Ferrer J, Herrmann D, van den Hoven J (2017): Beyond Informed Consent – Investigating Ethical Justifications for Disclosing, Donating or Sharing Personal Data in Research. In: Powers, TM (ed.): Philosophy and Computing. Springer, 193-207
49. **Christen M**, Bangerter E (2017): Is Cyberpeace possible? In: Demont-Biaggi F (ed.): The Nature of Peace and the Morality of Armed Conflict, Palgrave: 243-263
50. **Christen M**, Gordijn B, Weber K, van de Poel I, Yaghmaei E (2017): A Review of Value-Conflicts in Cybersecurity. Proceedings of CEPE/ETHICOMP 2017 (June 5-8 2017). Reprinted in in Orbit, 05/06/2017, <https://www.orbit-rri.org/journal/volume-one/issue-1/a-review-of-value-conflicts-in-cybersecurity/>.
51. Bringedal B, **Christen M**, Biller-Andorno N, Matsuzaki H, Rábano A (2017): Strangers in neuroscientific research. On being advisors in ethical, legal, social and philosophical aspects of the Human Brain Project. In: Leefmann J, Hildt E (eds.): The Human Sciences after the Decade of the Brain. Elsevier: 249-272
52. **Christen M**, Domingo-Ferrer J, Draganski B, Spranger T, Walter H (2016): On the compatibility of Big Data driven research and informed consent based on traditional disease categories – the example of the Human Brain Project. Floridi L, Mittelstadt B (eds.): Ethics of Biomedical Big Data, Springer, 199-218
53. **Christen M**, Alfano M, Robinson B (2014): The Semantic Space of Intellectual Humility. Proceedings of the European Conference on Social Intelligence (ECIS 2014, Barcelona, November 3-5 2014)
54. Ott T, Eggel T, **Christen M** (2014): Generating Low-Dimensional Denoised Embeddings of Nonlinear Data with Superparamagnetic Agents. Proceedings of the 2014 International Symposium on Nonlinear Theory and its Applications (NOLTA 2014, Lucerne, September 14-18)
55. **Christen M**, Villano M, Narvaez D, Serrano J, Crowell CR (2014): Measuring the moral impact of operating “drones” on pilots in combat disaster management, and surveillance. Proceedings of the 22. European Conference on Information Systems (ECIS 2014, Tel Aviv, June 9-11)
56. **Christen M** (2014): Overcoming Moral Hypocrisy in a Virtual Society. In: Youngman P, Hadzikadic M (eds.): Complexity and Human Experiences. Pan Stanford Publishing, Singapore: 39-60
57. **Christen M**, Alfano M (2014): Outlining the Field – A Research Program for Empirically Informed Ethics. In: Christen M, Fischer J, Huppenbauer M, Tanner C, van Schaik C (eds.): Empirically Informed Ethics. Morality between Facts and Norms. Library of Ethics and Applied Philosophy. Berlin: Springer, 3-28
58. Tanner C, **Christen M** (2014): Moral Intelligence – A Framework for Understanding Moral Competences. In: Christen M, Fischer J, Huppenbauer M, Tanner C, van Schaik C (eds.): Empirically Informed Ethics. Morality between Facts and Norms. Library of Ethics and Applied Philosophy. Berlin: Springer, 119-136
59. **Christen M**, Ott T (2013): Quantified coherence of moral beliefs as a predictive factor for moral agency. In: Musschenga B et al.: What makes us moral? Library of Ethics and Applied Philosophy. Berlin: Springer, 73-96
60. **Christen M**, Alfano M, Bangerter B, Lapsley D (2013): Ethical Issues of Morality Mining: When the moral identity of individuals becomes a focus of data mining. In: Rahman H, Ramos I (ed.): Ethical Data Mining Applications for Socio-Economic Development. IGI Global: 1-21
61. **Christen M**, Faller F, Götz U, Müller C (2013): Serious Moral Games in Bioethics. Proceedings of the Workshop on “Ubiquitous games and gamification for promoting behavior change and wellbeing” (Trento, September 16): 18-24
62. **Christen M** (2013): The neuroethical challenges of brain simulations. Proceedings of the 2013 Meeting of the International Association for Computing and Philosophy (IACAP 2013, College Park, July 15-17), paper 7

63. Niederberger T, Stoop N, **Christen M**, Ott T (2012): Hebbian Principal Component Clustering for Information Retrieval on a Crowdsourcing Platform. NDES 2012 Conference Proceedings (Wolfenbüttel, July 11-13)
64. Matusall S, **Christen M**, Kaufmann I (2011): Historical Perspectives on Social Neuroscience. In: Decety J, Cacioppo J (eds.) The Oxford Handbook of Social Neuroscience, Oxford University Press: 9-27
65. **Christen M** (2010): Naturalisierung der Moral? Abklärung des Beitrags der Neurowissenschaft zum Verständnis moralischer Orientierung [Naturalizing morality? The contribution of neuroscience for understanding human moral orientation]. In: Fischer J, Gruden S: Struktur der moralischen Orientierung. Reihe „Ethik interdisziplinär“, LIT-Verlag, Münster: 49-123
66. **Christen M** (2009): Technisierte moral agents? Wechselwirkungen zwischen der neuroscience of ethics und dem therapeutischen Einsatz von Neurotechnologien [Engineered moral agents? Interrelations between the neuroscience of ethics and the therapeutic use of neurotechnologies]. In: Müller O, Clausen J, Maio G (Hrsg.) Das technisierte Gehirn. Mentis, Paderborn: 253-272
67. **Christen M**, Starostina T, Schwarz D, Ott T (2009): A spin-based measure of the coherence of belief systems. Proceedings of NDES 2009 (Rapperswil, June 21-23).
68. **Christen M**, Bongard G, Pausits A, Stoop N, Stoop N (2007): Managing Autonomy and Control in Economic Systems. In: Helbing D: Managing Complexity: Insights, Concepts, Applications. Springer, Berlin: 37-56
69. Ott T, **Christen M**, Stoop R (2006): An unbiased clustering algorithm based on self-organization processes in spiking networks. Proceedings of NDES 2006 (Dijon, June 6-9): 143-146
70. **Christen M**, Bongard G, Pausits A, Stoop R (2006): From small world to hierarchic business information networks by reorganizations a real world study of a failure. Proceedings of the Workshop “Potentials of Complexity Science for Business, Government and the Media. Budapest, Hungary: 202-211
71. **Christen M**, Ott T, Kern A, Stoop N, Stoop R (2005): Periodic economic cycles: The effect of evolution towards criticality, and control. Proceedings of the IEEE Conference on Nonlinear Dynamics and its Applications (NOLTA 2005, Bruges, October 18-21)
72. **Christen M**, Ott T, Stoop R (2004): Spike train clustering using a Lempel-Ziv distance measure. In: Proceedings of the 2004 NOLTA conference (Fukuoka, November 29 - December 3): 379-382
73. Stoop R, Buchli J, **Christen M** (2004): Phase and Frequency Locking in Detailed Neuron Models. In: Proceedings of the 2004 NOLTA conference (Fukuoka, November 29 - December 3): 43-46
74. Stoop R, van der Vyver J-J, **Christen M**, Kern A (2004): Where Noise and Precision Join: Coding of Neural Information Via Limit Cycles. In: Proceedings of the 2004 NOLTA conference (Fukuoka, November 29 - December 3): 375-378
75. **Christen M**, Kern A, van der Vyver J-J, Stoop R (2004): Pattern detection in noisy signals. In: Proceedings of the 2004 IEEE International Symposium of Circuits and Systems 4 (ISCAS 2004, Vancouver, May 23-26): 669-672
76. **Christen M**, Kern A, Stoop R (2003): A correlation integral based method for pattern recognition in series of interspike intervals. In: Stoop R (ed.). Proceedings of the 11. Workshop on Nonlinear Dynamics of Electronic Systems (NDES 2003, Scuol, May 18-21): 49-52
77. Stoop R, **Christen M**, van der Vyver J-J, Kern A, Wagner C (2003): Properties of the Control of Noisy, Stable and Chaotic Dynamics. In: Stoop R (ed.). Proceedings of the 11. workshop on Nonlinear Dynamics of Electronic Systems (NDES 2003, Scuol, May 18-21): 259-262

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### *Invited Contributions (28)*

78. Weber K, Kleine N, Loi M, **Christen M** (2018): Digital medicine, cybersecurity and ethics: An uneasy relationship. American Journal of Bioethics 18(9): 52-53. DOI: 10.1080/15265161.2018.1498935
79. **Christen M**, Katsarov J (2018): Serious Moral Games – Videospiele als Werkzeuge der Ethikbildung. In: Junge T, Schumacher C (Hrsg.): Digitale Spiele im Diskurs. URL: [www.medien-im-diskurs.de](http://www.medien-im-diskurs.de)
80. Ineichen C, **Christen M** (2017): Hypo- and hyperagentic psychiatric states, next-generation closed loop DBS and the question of agency. AJOB Neuroscience 8(2): 77-79
81. **Christen M**, Müller S (2017): The Ethics of Expanding Applications of Deep Brain Stimulation. In: Rommelfanger K, Johnson S (eds.): Routledge Handbook of Neuroethics. Routledge, New York, 51-65

82. **Christen M** (2016): Klinische und ethische Fragen der Neuromodulation. In: Jox RJ, Erbguth F (eds.): *Praktische Fragen der Neuromedizin*, Springer, Berlin, 117-128
83. **Christen M**, Katsarov J (2016): Moral Sensitivity as a Precondition of Moral Distress. *AJOB Neuroscience* 16(12): 19-21
84. **Christen M**, Ineichen C, Tanner C (2016): „Moralische Intelligenz“ in der klinischen Praxis. *Praxis – Schweizerische Rundschau für Medizin* 105(21): 1261-1266
85. **Christen M** (2016): Das Gute in der Informatik. *VSH-Bulletin* Nr. 1(April 2016): 59-65
86. **Christen M**, Brugger P (2015): From control to cooperation – plea for a new role of IRBs. *Cortex* 71: 415-416
87. **Christen M**, Bastami S, Gloor M, Krones T (2015): Resolving some, but not all informed consent issues in DCDD – the Swiss experiences. *American Journal of Bioethics* 15(8): 29-31
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109. **Christen M**, Fischer J, Huppenbauer M, Tanner C, van Schaik C (eds.) (2014): *Empirically Informed Ethics. Morality between Facts and Norms*. *Library of Ethics and Applied Philosophy*. Springer, Berlin (349 pp.)
110. **Christen M**, Faller F, Götz U, Müller C (2012/2013): *Serious Moral Games. Erfassung und Vermittlung moralischer Werte durch Videospiele [Serious Moral Games. Measuring and learning moral values through video games]*. Edition ZHdK, Zurich [English edition: 2013] (144 pp.)
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112. **Christen M**, Osman C, Baumann-Hölzle R (eds.) (2010): *Herausforderung Demenz. Spannungsfelder und Dilemmata in der Betreuung demenzkranker Menschen [Challenge Dementia. Conflicts and dilemmas in caring for demented persons]*. Peter Lang Verlag, Bern (199 pp.)
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120. **Christen M**, Burri T, Chapa J, Salvi R, Santoni de Sio F, Sullins J (2017): An Evaluation Schema for  
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124. **Christen M**, Müller S (2012): Tiefe Hirnstimulation bei Bewegungsstörungen. Eine Informationsbro-  
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125. Ott T, Rohrkemper R, **Christen M** (2011): Superparamagnetic Maps: Self-organising Low-Dimen-  
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134. **Christen M** (2017): Videogames mit Moral. Unimagazin 03/17, 46-47
135. **Christen M** (2017): Daten-Ethik für Menschen im Alter. Angewandte Gerontologie 03/17
136. **Christen M** (2016): «Ikonische Maschine» der Digitalisierung. Newsletter TA-SWISS 04/16
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144. **Christen M**, Ott T, Schwarz D (2011): Warum waren Grüne und SVP von Abspaltungen betroffen, nicht aber CVP und FDP? NZZ am Sonntag, 05.06.11
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148. **Christen M** (2007): Planet Hirn. Unimagazin 03/07, 46-47
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*Other Scientific Contributions such as Abstracts (talks) & Posters at conferences (65)*

151. **Christen M**, Katsarov J, Schmocker D, Tanner C (2018): Promoting leader's moral competences through video games? A systematic assessment of the potential of Serious Moral Games for training moral sensitivity. AME 2018 (Barcelona, November 8-10), talk
152. Katsarov J, **Christen M**, Schmocker D, Tanner C (2018): Training Moral Sensitivity – A Systematic Review. AME 2018 (Barcelona, November 8-10), poster
153. Schmocker D, Tanner C, **Christen M**, Katsarov J (2018): Serious Moral Game: Training Moralischer Sensitivität im Wirtschaftskontext. 51. Kongress der Deutschen Gesellschaft für Psychologie (Frankfurt, September 15-20), poster
154. Eichinger T, **Christen M**, Katsarov J (2018): Konzeption eines Videospiele zur Unterstützung des Ethikunterrichts im Medizinstudium - Vorstellung und Diskussion. Jahrestagung der Akademie für Ethik in der Medizin (Cologne, September 13-15), talk
155. Katsarov J, **Christen M**, Eichinger T (2017): Conception of a video game to enhance medical ethics training. International Conference on the Art, Technology and Theory of Digital Games (Cologne, November 6-8), talk
156. Fabrikant SI, Brugger P, **Christen M** (2017): What color is your brain? 28th International Cartographic Conference (Washington, D.C., 06.07), talk
157. Schmocker D, Katsarov J, **Christen M**, Tanner C (2017): Counteracting moral blindness in business: An advanced measure of moral sensitivity. International Convention of Psychological Science (Vienna, March 23-25), poster
158. Katsarov J, Seidenberg M, **Christen M** (2016): Game Mechanisms for Training Moral Sensitivity: A Research Design. Morality Play workshop at DIGRA/FDG 2016 (Dundee, August 1-5), abstract
159. **Christen M**, Brugger P, Fabrikant SI (2015): The influence of color-manipulation on data interpretation in neuroimaging and geographic information visualization. Conference "2015 INS Annual Meeting" (Chicago, October 15-16), poster
160. **Christen M**, Brugger P, Fabrikant SI (2015): Assessing the influence of color scales on data interpretation in neuroimaging – a comparative empirical study. Conference "Society for Neuroscience Meeting 2015" (Chicago, October 17-21), poster

161. Gutzwiller E, **Christen M**, Narvaez D (2015): Cultural moral progress despite biological moral decline? – an empirical and ethical investigation of the notion of “moral progress”. Conference “Moral Progress: Concept, Measurement, and Application” (Amsterdam, 23-25 June 2015), abstract
162. **Christen M**, Bringedal B, Biller-Andorno N, Matsuzaki H, Rábano A (2015): Strangers in neuroscientific research. On the role of social scientists and ethicists as advisors in ethical, legal and social aspects of the Human Brain Project. Conference “The Human Sciences after the Decade of the Brain – Perspectives on the Neuro-Turn in the Social Sciences and the Humanities” (Mainz, March 30-31), abstract
163. **Christen M** (2013): Digital Humanities – von der Digitalisierung zur Simulation. Konferenz Digital Humanities: Neue Herausforderungen für den Forschungsplatz Schweiz (Bern, November 28-29), abstract
164. Satalkar P, **Christen M** (2013): Defining and Defying Death: Making Sense of Brain Death and Cadaveric Organ Donation in India. International Neuroethics Society Annual Meeting (San Diego, November 08-09), poster
165. Molina-Luna P, **Christen M**, Brugger P, Regard M (2013): Beyond Phineas Gage. Analyzing Morality in Frontal Lesion Patients. International Neuroethics Society Annual Meeting (San Diego, November 08-09), poster
166. **Christen M**, Cabrera L, Ineichen C, Ott R (2013): Teaching Neuroethics – The Zurich Spring & summer School Experiences. International Neuroethics Society Annual Meeting (San Diego, November 08-09), poster
167. Hughes J, Cabrera L, Ott R, Ineichen C, **Christen M** (2013): Neuroenhancement: Mapping the Importance of Ethical Considerations and Stakeholder Perspectives. International Neuroethics Society Annual Meeting (San Diego, November 08-09), poster
168. **Christen M** (2013): Ethical challenges of large-scale brain simulations. Neuroscience 2013 (San Diego, November 08-09), poster; *abstract reprinted in AJOB Neuroscience* 5(3), 2014: 38-39
169. **Christen M**, Narvaez D, Tanner C, Ott T (2013): Thesaurus-based value maps as an instrument for psychological research Association of Moral Education (Montréal, October 24-27), abstract
170. Larne MC, Roof E, Godby O, **Christen M**, Narvaez D (2013): A German-English comparison of Thesaurus-based value maps reveals underlying semantic structures of cultural moral differences. Association of Moral Education (Montréal, October 24-27), poster
171. **Christen M**, Niederberger T, Ott T, Aebersold R, Aryobsei S, Hofstetter R. (2013): Comparing Top-Down and Bottom-Up Sorting of Enriched Micro-Texts by Humans and Machines. APA Annual Convention (Honolulu, July 31 – August 4), poster
172. **Christen M**, Lienhard F, Zehr M, Ineichen C, Narvaez D, Tanner C (2013): Sphere and cultural-specific distinctions of moral and non-moral values. APA Annual Convention (Honolulu, July 31 – August 4), poster
173. **Christen M** (2013): The Neuroethical Challenges of Brain Simulations. Annual Meeting of the International Association for Computing and Philosophy (College Park, July 15-17), abstract
174. Ott T, **Christen M**, Niederberger T, Aebersold R, Aryobsei S, Hofstetter R (2013): A Semi-Supervised Learning System for Micro-Text Classification. NDES 2013 (Bari, July 10-12), abstract
175. **Christen M**, Ineichen C, Tanner C (2013): How “Moral” are the Principles of Biomedical Ethics? Society for Applied Philosophy, Annual Conference 2013 (Zürich, June 28-30), abstract
176. Fish A, **Christen M**, Denkhaus K, Guzman M, Lawrence A, Pruitt T, Thompson C, Narvaez D (2013): Assessing the connection between moral identity, parenting style experiences and parenting preferences. The Jean Piaget Society 43rd Annual Meeting (Chicago, June 06-08), poster
177. **Christen M**, Ineichen C, Bittlinger M, Bothe H-W, Müller S (2013): The practice of Deep Brain Stimulation – An international survey on clinical and ethical issues. International Conference on Deep Brain Stimulation (Düsseldorf, May 30-31), abstract
178. Müller S, **Christen M** (2013): Should Deep Brain Stimulation be offered to Parkinsonian patients with pedophilia? International Conference on Deep Brain Stimulation (Düsseldorf, May 30-31), abstract
179. **Christen M**, Bittlinger M, Ineichen C, Müller S (2013): The clinical and ethical practice of deep brain stimulation—Results of an international survey of DBS experts, abstract; *reprinted in AJOB Neuroscience* 4(2): 3-4

180. Villano M, **Christen M**, Kacprowicz Z, Peterson E, Narvaez D (2013): Killing or Letting Die – Drone Dilemmas as an Instrument to Assess the Impact of the Virtualization of Warfare on Human Morality. National PCA/ACA Conference (Washington DC, March 27-30), abstract
181. **Christen M**, Narvaez D, Tanner C (2013): Serious Moral Games as Tools in Psychological Research. National PCA/ACA Conference (Washington DC, March 27-30), abstract
182. **Christen M**, Peterson E, Kacprowicz Z, Lawrence A, Narvaez D (2012): The Relation of Promotion/Prevention Motivation to Triune Ethics Identity. Association of Moral Education (San Antonio, November 8-11), poster
183. **Christen M**, Denkhau K, Fish A, Lawrence A, Young J, Thompson C, Narvaez D (2012): Moral Identity Influences the Appreciation of Different Parenting Practices. Association of Moral Education (San Antonio, November 8-11), poster
184. **Christen M**, Bittlinger M, Ineichen C, Müller S (2012): The clinical and ethical practice of deep brain stimulation – results of an international survey of DBS experts. International Neuroethics Society Meeting (New Orleans, October 11-12), abstract/poster
185. **Christen M**, Vitacco DA, Huber L, Brugger P, Harboe J (2012): Analyzing 14 years of neuroimaging display practice. Society for Neuroscience Meeting 2012 (New Orleans, October 13-17), poster
186. **Christen M** (2012): Population and Temptation Density Determine the Effect of Social Strategies on Moral Hypocrisy in a Virtual Society. Complexity and Human Experience: Modeling Complexity in the Humanities and Social Sciences (Charlotte, May 30 – June 1), abstract
187. **Christen M**, Ott T (2012): A superparamagnetic agent map of science. 12th Experimental Chaos and Complexity Conference (Ann Arbor, May 16-19), poster
188. **Christen M** (2012): Shiny Moral People. A Modeling Approach towards Understanding Moral Hypocrisy within a Virtual Society. American Philosophical Association Meeting 2012, Central Division (Chicago, February 15-18), abstract
189. **Christen M**, Regard M, Brugger P (2012): The „immoral patient“ – analyzing the role of brain lesion patients in moral research, poster, *abstract reprinted in AJOB Neuroscience* 3(3): 37
190. **Christen M**, Ott T (2011): Quantified coherence of moral beliefs as a predictive factor for moral agency. Conference “What Makes us Moral?” (Amsterdam, June 23-24), abstract
191. Schwarz D, **Christen M**, Ott T (2011): Why Do Parties Split? A New Measure of Party Coherence Based on the Belief Systems of Party Members in Switzerland and the United States. ECPR Joint Sessions (St. Gallen, April 13-16), abstract
192. **Christen M**, Regard M (2009): Der unmoralische Patient: Eine kritische Analyse des Einsatzes hirnerkrankter Personen in der empirischen Moralforschung [The „immoral patient“ – a critical assessment of the use of brain lesion patients in empirical moral research]. AEM-Tagung „Menschenbilder in der (Medizin-)Ethik“ (Berlin, September 24-26), abstract
193. **Christen M** (2009): The responsibility-gap in self-organized social systems: can empirical approaches in modeling social science and neuroeconomics help to close it? Moral Responsibility: Neuroscience, organization & engineering (Delft, August 24-27), abstract
194. **Christen M** (2009): Das Konzept „moral agency“ und Tiefe Hirnstimulation [The concept of moral agency and deep brain stimulation]. 60. Jahrestagung der Deutschen Gesellschaft für Neurochirurgie (Münster, May 27), abstract
195. **Christen M**, Kaufmann I, Matusall S (2009): Disciplinary Dynamics in Emerging Social Neurosciences and Neuroeconomics. Science and Technology in Society Conference (Washington DC, March 28-29), abstract
196. **Christen M**, Fischer J (2008): What do neural correlates of moral judgments reveal on moral agency? International Workshop on Neuroethics (Aachen, June 07), abstract
197. Baumann D, **Christen M** (2008): The art of brain imaging. STS Meeting (Zurich, February 07-09), abstract
198. Heilinger J-C, **Christen M** (2008): The condition of informed consent regarding technical interventions in the brain. STS Meeting (Zurich, February 07-09), abstract
199. **Christen M**, Jaeggi A, Kaufmann I, Matusall S, Miller N, Rudolf von Rohr C (2007): Naturalizing moral agency – prospects and perils. 15th Annual Meeting of the European Society of Philosophy and Psychology (Geneva, July 09-12), poster

200. Nicol AU, Magnusson MS, **Christen M**, Ott T, Stoop R, Feng JF, Kendrick KM (2006): Order and disorder in odour encoding by olfactory bulb neural networks. FENS Forum Abstracts, vol. 3, Abstract A074.12
201. **Christen M**, Ott T, Stoop R (2006): Computation in olfactory systems beyond synchronization. AIMS 2006. Sixth International Conference on Dynamical Systems, Differential Equations and Applications (Poitiers, June 25-28), abstract
202. **Christen M** (2006): Autonomie – eine Aufgabe für die Philosophie [Autonomy – a task for philosophy]. Symposium of the Swiss Philosophical Association: What is Philosophy? (Neuchâtel, May 19-20), abstract
203. **Christen M** (2005): Lempel-Ziv in neuronal systems. From Quanta to Life: Honoring the contributions by Willi-Hans Steeb to the world of mathematics and physics (Klosters, December 18-22), abstract
204. **Christen M**, Nicol A, Kendrick K, Ott T, Stoop R (2005): Odors lead to stable neuron relations beyond synchronization. ZNZ-symposium (Zurich, October 21), poster
205. **Christen M** (2005): Neuronal long-tails revisited. NDES 2005. Nonlinear Dynamics in Electronic Systems (Potsdam, September 18-22), abstract
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