

ELENA ESPOSITO

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EDUCATION

2013	Abilitazione Scientifica Nazionale Italy SPS/08 and SPS/07
2001	Habilitation University Bielefeld
1990	P.h.D. University Bielefeld
1987	Laurea Philosophy University Bologna (<i>summa cum laude</i>)
1983	Laurea Sociology University Bologna (<i>summa cum laude</i>)

ACADEMIC APPOINTMENTS

2016- Full Professor, Fakultät für Soziologie, Universität Bielefeld

2019- Full Professor, Dipartimento di Scienze Politiche e Sociali - Università di Bologna

2001-2019 Associate Professor, Facoltà di Scienze della Comunicazione e dell'Economia, Università di Modena e Reggio Emilia

2000-2001 Assistant Professor, Facoltà di Lettere e Filosofia, Università di Modena e Reggio Emilia

1993-2000 Assistant Professor, Facoltà di Sociologia, Università di Urbino

1991-1992 Instructor, Facoltà di Scienze Politiche, Università di Bologna-Forlì

VISITING ASSIGNMENTS

Spring 2022 and 2019 Visiting Professor Ecole des hautes études en sciences sociales, Paris

August 18 – 24, 2019 Faculty member at the IFK-Sommerakademie "Happy End – Prospekte und Narrationen möglicher Zukunft", Linz.

June 24 – 28, 2019 Faculty member at the Stanford–Leuphana Summer Academy "Against presentism. Historicizing mediality", Berlin.

2017 Visiting Scholar at the Max Planck Institute for the History of Science, Berlin

2015-16 Niklas Luhmann Distinguished Visiting Chair in Social Theory – Bielefeld University

2015 Visiting Scholar at the New School for Public Engagement, New York

2014 Guest Professor, Meiji University (Japan)

2007-08, 2008-09, 2009-10 Visiting Professor, Università di Scienze Gastronomiche in Pollenzo (Asti)

2005 Visiting Professor, P.h.D. Program “Globalización económica y sociedad de la information” , University Oviedo

1998-99 and 1999-2000 Visiting Professor, Institut für Soziologie, University Vienna

1999-2000 Professor, Facoltà di Scienze della Formazione, University Urbino

FELLOWSHIPS AND AWARDS

Finalist of the Prize *Libro dell'Anno sull'Innovazione* of the Galileo Festival della Scienza e dell'Innovazione (<https://www.galileofestival.it/libro-dellanno-sullinnovazione/>) for the book „Comunicazione artificiale“.

Falling Walls 2021: Winner in Social Sciences and Humanities. <https://falling-walls.com/people/elena-esposito/>

Fellowship Auerbach Institute for Advanced Study at Cologne University, 2021

Fellowship Wissenschaftskolleg (Institute for Advanced Study) Berlin, 2019/2020

Fellowship Institute for Advanced Study in Humanities and Social Sciences at Zhejiang University (ZJU-IAS), 2017

Senior Fellowship MECS - Media Cultures of Computer Simulation at Leuphana University Lüneburg, 2016

Fellowship Italian Academy for Advanced Studies in America at Columbia University, 2014

Visiting Fellowship Institute of Advanced Studies University of Warwick, 2014

Senior Fellowship IKKM - Internationales Kolleg für Kulturtechnikforschung und Medienphilosophie Weimar, 2013-14

Alexander von Humboldt Fellowship, 1998-99 (resumption 2002)

Postgraduate Fellowship University Bielefeld, 1989-90

CNR-NATO postgraduate Fellowship, 1988-89

EC Summer University Fellowship, Berlin, 1988

DAAD postgraduate Fellowship, University Bielefeld 1986-88

2020- Member of *Academia Europaea*

2009 Ladislao Mittner Award, DAAD and Ateneo Italo-Tedesco

1993 Lelli Award for the best sociology thesis for *L'operazione di osservazione*

GRANTS

ERC Advanced Grant 2018 *The Future of Prediction: The Social Consequences of Algorithmic Forecast in Insurance, Medicine and Policing* – PI (2.084.429 Euros)

2023-2026. PI of the WP 8.4: *The Social Implications of AI: Data and Models, Acceptance and Use of Generative AI and ADMs*, in the project FAIR – Future Artificial Intelligence Research of the **Extended Partnership: Artificial Intelligence**. Fundamental aspects of the NRRP In Italy, Financed by Next Generation EU with altogether 110 million euros.

2022-2025. Co-PI of the project DEMOPE: Democracy under Pressure, Italian Ministry for University and Research (**PRIN 2020 MIUR**).

2021- Collaborative Research Center (**TRR 318**) *Constructing Explainability*, Universities Bielefeld and Paderborn, CO-PI Project B01 “A dialog-based approach to explaining machine learning models”

Volkswagen Foundation – Grant 2021 *Unbiased Bots That Build Bridges (U3B): Technical Systems that Support Deliberation and Diversity as a Chance for Political Discourse* – Co-PI (1.500.000 Euros)

PRIN 2017 MIUR *Artificial Intelligence and Legal Studies Perspectives* – Co-PI.

Volkswagen Foundation – *Planning Grant Proposal* 2019 “Unbiased Bots That Build Bridges (U3B): Technical Systems that Support Deliberation and Diversity as a Chance for Political Discourse” – Co-PI (250.000 Euros).

2016-2018 **The Leverhulme Trust**, International collaborative network *Performances of Value: Competition and Competitions Inside and Outside Markets* between CIM at Warwick, IOA at Copenhagen Business School, CSO at Sciences Po, CSI at Ecole des Mines, DCE at UNIMORE - Co-PI. <http://blogs.cim.warwick.ac.uk/valueperformances/>

PRIN 2009 MIUR “I valori socio-giuridici nell’attuale fase di adattamento costituzionale a seguito dell’allargamento dell’Unione Europea: un approccio socio-sistemico” – local referent Dipartimento di Comunicazione e Economia, University Modena e Reggio Emilia.

Participating researcher in the Application for the Foundation of the *Central Scientific Institute for Studies of Science (ISoS)* at University Bielefeld, 2023.

Participating researcher in the Proposal for a Research Unit *Uses of Uncertainty. The Science and Society Perspective*, DFG, 2023.

Participation as PI in the Proposal MODUS for a Cluster of Excellence, University Bielefeld.

MEMBER OF EDITORIAL OR ADVISORY BOARDS

2014- **Editor in chief** of *Sociologica. International Journal of Sociological Debate* (Il Mulino and University Bologna) <https://sociologica.unibo.it/>

1992-95 **Editor in chief** of *Teoria sociologica* (Angeli – Milano)

2021- *Weizenbaum Journal of the Digital Society* (Weizenbaum Institute of the Networked Society)

2017- *Archiv für Mediengeschichte* (Fink Verlag – München)

2015- *Literature – Culture – Economy* (Peter Lang Verlag - Frankfurt am Main)

2014 - *Filosofie dell'economia e Coincidentia Oppositorum* (Mimesis Edizioni – Milano)

2012- *Teoria sociale* (Orthotes – Salerno)

2007- *Trivium. Franco-German journal of the humanities and social sciences* (Fondation Maison des sciences de l'homme – Paris)

2003- *Erwägen Wissen Ethik* (Lucius & Lucius – Stuttgart)

2000-06 *Soziale Systeme* (Lucius & Lucius – Stuttgart)

2022- Member of the AI Ethics Advisory Board by the *Institute for Experiential AI* Northeastern University

2022- Member of the Steering Committee of the project *Re-Konstruktionen*, Deutsches Historisches Institut Rome and Villa Vigoni Zentrum Menaggio

2022-Member of the Steering Committee of Jean Monnet Module EU.C.L.I.D.E. - European Contract Law In Digital Environments for citizen empowerment

2020-2021 Member of the Academic Committee of the The Martin Buber Society of Fellows in the Humanities and Social Sciences

2020- Member of the Board of the Dottorato Reggio Childhood Studies, University Modena e Reggio Emilia

2019- Member of the Institute for Interdisciplinary Studies of Science (I²SoS), University Bielefeld

2017- Associate Member of the SFB 1288 “Practices of Comparing. Ordering and Changing the World“, University Bielefeld (D)

2017- Member of the Board of the Internationales Forschungszentrum Kulturwissenschaften (IFK) in Vienna

2014- Member of the Advisory Council of the Zentrum für interdisziplinären Forschung (ZiF) of the University Bielefeld (D)

2017- 2019 Member of the Board of the Dottorato in Sociologia e ricerca sociale, University Bologna

2013- 2014 Member of the Board of the Institute for Advanced Study in Media Cultures of Computer Simulation, Leuphana Universität Lüneburg (D)

2010- 2015 Member of the Board of the Scuola di Dottorato in Scienze Umanistiche, University Modena e Reggio Emilia

2010-2017 Member of the Lenkungsgremium Medienwissenschaftliche Symposien, DFG

2022– Evaluator of Swiss National Science Foundation (SNSF) Advanced Grants

2017– Evaluator of the HERA Joint Research Programme

2017– Evaluator of the LOEwe Initiative of the Land Hessen

2015- Evaluator of the Deutscher Akademischer Austausch Dienst (DAAD)

2023- Evaluator of the Fondo italiano per la Scienza (FIS)

2013 - Referee for ERC Advanced Grants

2010- 2015 Member of the Evaluation Committee Villa Vigoni Project

PUBLICATIONS

Books

Explaining Machines: Social Management of Incomprehensible Algorithms. Editor of the symposium in *Sociologica*, 16(3), 2022.

Artificial Communication: How Algorithms Produce Social Intelligence. Cambridge: MIT Press, 2022.

Italian translation *Comunicazione artificiale. Come gli algoritmi producono l'intelligenza sociale* Milano: Bocconi University Press, 2022.

Chinese translation Shanghai: Shanghai Jiaotong University Press, forthcoming.

Reflexivität und System. Die Debatte über Ordnung und Selbstorganisation in den 1970er Jahren / Réflexivité et système. Le débat sur l'ordre et l'auto-organisation dans les années 1970 (with Erich Hörl), editor of the issue of *Trivium* 20, 2015. URL: <http://trivium.revues.org>

Ontologien der Moderne (with René John and Jana Rückert-John) (Eds.), Wiesbaden: Springer VS, 2013.

Il futuro dei futures. Il tempo del denaro nella finanza e nella società. Pisa: ETS, 2009.

German translation *Die Zukunft der Futures. Die Zeit des Geldes in Finanzwelt und Gesellschaft.* Heidelberg: Carl Auer, 2010.

English translation *The Future of Futures. The Time of Money in Financing and Society.* Cheltenham: Edward Elgar, 2011.

Die Fiktion der wahrscheinlichen Realität. Frankfurt a.M.: Suhrkamp 2007.

revised Italian translation *Probabilità improbabili. La realtà della finzione nella società moderna.* Roma: Meltemi, 2008.

English translation Ch.VI, The Present Future and Future Presents. Pp.151-153 in Verena Gamper (ed.) *Spatial Abstrakt. Malerei in Raum/Spatial Abstract. Painting in Space.* Wien: Verlag für moderne Kunst, 2016.

Reform und Innovation in einer unstablen Gesellschaft (with Giancarlo Corsi) (eds.). Stuttgart: Lucius & Lucius, 2005.

Stand und Veränderungen der wissenschaftlichen Publikationen, editor of the monographic issue of *Soziale Systeme*, 2005(1).

Die Verbindlichkeit des Vorübergehenden. Paradoxien der Mode. Suhrkamp: Frankfurt a.M., 2004.

Italian translation *I paradossi della moda. Originalità e transitorietà nella società moderna.* Bologna: Baskerville, 2004.

Portuguese translation in preparation.

La memoria sociale. Mezzi per comunicare e modi di dimenticare, Laterza, Roma-Bari, 2001.

extended German translation *Soziales Vergessen. Formen und Medien des Gedächtnisses der Gesellschaft.* Frankfurt a.M.: Suhrkamp 2002.

Spanish translation *Olvido social. Formas y medios de la memoria de la sociedad.* Santiago del Chile: Ediciones Universidad Diego Portales, 2023.

Japanese translation Tokio: University of Tokio Press, (forthcoming).

Luhmann In Glossario (with Claudio Baraldi and Giancarlo Corsi). Milano: Angeli, 1995.

Japanese translation Tokio: Kokubun-sha, 2013.

German translation *GLU. Glossar zu Niklas Luhmanns Theorie sozialer Systeme.* Suhrkamp, Frankfurt a.M., 1997.

Spanish translation *GLU. Glosario sobre la teoría social de Niklas Luhmann*. Città del Messico-Gaudalajara-Barcellona: Universidad Iberoamericana, 1996.

English Translation *Unlocking Luhmann. A Keyword Introduction to Systems Theory*. Bielefeld, Transcript, 2021.

Korean translation (forthcoming).

Il costruttivismo nelle scienze sociali, editor of the monographic issue of *Teoria sociologica*, 1993(2).

L'operazione di osservazione, Milano: Angeli, 1992.

GLU. Glossario dei termini della teoria dei sistemi sociali di Niklas Luhmann. Montefeltro: Urbino, 1990.

Semantica e comunicazione. L'evoluzione delle idee nella prospettiva sociologica di Niklas Luhmann (with Claudio Baraldi and Giancarlo Corsi). Bologna: CLUEB, 1987.

Articles

Explaining Machines: Social Management of Incomprehensible Algorithms. Introduction. *Sociologica*, 16(3), 2022: 1–4. <https://doi.org/10.6092/issn.1971-8853/16265>

Does Explainability Require Transparency? *Sociologica* 16(3), 2022: 17–27. <https://doi.org/10.6092/issn.1971-8853/15804>

From Actuarial to Behavioural Valuation: The Impact of Telematics on Motor Insurance (with Alberto Cevolini). *Valuation Studies*, 9(1) 2022: 109-139.

Vorhersagen und Entscheiden: Predictive Policing in Polizeiorganisationen (with Simon Egbert and Maximilian Heimstädt). *Soziale Systeme*, 26(1–2), 2021: 189–216. <https://doi.org/10.1515/sosys-2021-0007>

Helga Nowotny in Conversation with Elena Esposito. *Sociologica*, 16(2), 261–273. <https://doi.org/10.6092/issn.1971-8853/15464>

Was Luhmann von der Digitalisierung und von Algorithmen schon wusste. Pp.127-133 in Timon Beyes, Wolfgang Hagen, Claus Pias and Martin Warnke (Eds.) *Niklas Luhmann am OVG Lüneburg. Zur Entstehung der Systemtheorie*. Berlin: Duncker & Humblot, 2021.

Luhmann, on Algorithms, in 1966. English translation pp. 155-161 in Ralf Rogowski (Ed.) *The Anthem Companion to Niklas Luhmann*. London: Anthem, 2023. ISBN:9781839984884

Dall'Intelligenza artificiale alla comunicazione artificiale. *aut aut* 391, 2021: 20-34.

Transparency vs. Explanation. The Role of Ambiguity in Legal AI, *Journal of Cross-disciplinary Research in Computational Law*, 1 (1). <https://journalcrcl.org/crcl/article/view/10>

Transparência vs. Explicação. O papel da ambiguidade na IA jurídica, Portuguese translation in *Revista Direito Mackenzie* 16(3), 2022: 1-22. ISSN 2317-2622. <http://dx.doi.org/10.5935/2317-2622/direitomackenzie.v16n315705>.

Wörterbuch der weitschweifigen Begriffe: Digitalisierung. *Zeitschrift für Ideengeschichte*, XV(4), 2021: 107-110.

Systems theory and algorithmic futures: Interview with Elena Esposito (with Katrin Sold and Bénédicte Zimmermann). *Constructivist Foundations* 16(3), 2021: 356–361.

Opacity and Complexity of Learning Black Boxes. *Constructivist Foundations* 16(3), 2021: 377–380.

Digitale Prognose. Von statistischer Ungewissheit zur algorithmischen Vorhersage. Pp. 177 – 198 in Alfons Labisch (Ed.) *Kann Wissenschaft in die Zukunft sehen? Prognosen in den Wissenschaften*. Halle: Acta Historica Leopoldina Nr. 79, 2021.

On Christoph Deutschmann's Disembedded Markets—Economic Theology and Global Capitalism (with Jens Beckert and Greta Krippner). *Socio-Economic Review*, 18(4), 2020: 1199-1212.

Explanation as a Social Practice: Toward a Conceptual Framework for the Social Design of AI Systems (with Rohlfing K., Cimiano P., Scharlau I., Matzner T., Buhl H.M., Buschmeier H., Grimminger A., Hammer B., Hüb-Umbach R., Horwath I., et al.). *IEEE Transactions on Cognitive and Developmental Systems*, 13(3), 2020: 717-728, doi: 10.1109/TCDS.2020.3044366.

Unpredictability. Pp. 533-540 in Nanna Bonde Thylstrup et al. (Eds.) *Uncertain Archives*. Cambridge (Mass.): MIT Press, 2020.

A Pandemic of Prediction: On the Circulation of Contagion Models between Public Health and Public Safety (with Maximilian Heimstädt and Simon Egbert). *Sociologica*, 14(3), 2020:1-24. <https://doi.org/10.6092/issn.1971-8853/11470>

From Pool to Profile: Social Consequences of Algorithmic Prediction in Insurance (with Alberto Cevolini). *Big Data & Society* 7(2), 2020. <https://doi.org/10.1177/2053951720939228>

Systemic Integration and the Need for De-Integration in Pandemic Times. *Sociologica*, 14(1): 3-20, May 2020. ISSN 1971-8853. <https://sociologica.unibo.it/article/view/10853>>. doi:<https://doi.org/10.6092/issn.1971-8853/10853>.

Reprint in Markus Heidingsfelder and Maren Lehmann (Eds.) *Corona: Weltgesellschaft im Ausnahmezustand*. Weilerswist: Velbrück, 2020, pp. 97-116.

La Integración sistémica y la necesidad de la des-integración en tiempos de pandemia. Spanish translation in *Revista Mad - Universidad de Chile* 44, 2021: 1–18. DOI: 10.5354/0719-0527.2021.64773

The Impact of Big Data. Pp. 27-31 in Bente Maegaard and Riccardo Pozzo (Eds.) *Stay Tuned to the Future. Impact of Research Infrastructures for Social Sciences and Humanities*. Firenze: Olschki, 2019.

What's Observed in a Rating? Rankings as Orientation in the Face of Uncertainty (with David Stark). *Theory, Culture & Society*, 36(4): 3-26, 2019.
<https://doi.org/10.1177/0263276419826276>

Reprint in David Stark (Ed.) *The Performance Complex: Competition and Competitions in Social Life*. Oxford: Oxford University Press, 2020, pp. 122-143.

Predicting Innovation. Artistic Novelty and Digital Forecast. Pp. 235-243 in Thijs Lijster (Ed.) *The Future of the New. Artistic Innovation in Times of Social Acceleration*. Amsterdam: Valiz, 2018.

Predicted Uncertainty: Volatility Calculus and the Indeterminacy of the Future. Pp. 219-235 in Jens Beckert and Richard Bronk (Eds.) *Uncertain Futures. Imaginaries, Narratives, and Calculation in the Economy*. Oxford: Oxford University Press, 2018.

The time of money in finance and US society. *Finance and Society* 2018, 4(1): 15-25.
DOI: <https://doi.org/10.2218/finsoc.v4i1.2738>

Reality of the Future and Future Reality. Pp. 27-32 in Susanne Witzgall and Kerstin Stakemeier (Eds.) *The Present of the Future*. Zurich/Berlin: Diaphanes, 2017.

Critique without crisis: Systems theory as a critical sociology. *Thesis Eleven* 2017, 143(1): 18-27.

Crítica sem crise: teoria dos sistemas como sociologia crítica. Portuguese translation in Lucas Fucci Amato, Marco Antonio Loschiavo and Leme de Barros (Eds.) *Teoria crítica dos sistemas: crítica, teoria social e direito*. Porto Alegre: Editora Fi, 2018: 37-53.

Organizing without Understanding? Lists in Ancient and in Digital Cultures. *Zeitschrift für Literaturwissenschaft und Linguistik*, 2017, 47(3): 351-359.
<https://doi.org/10.1007/s41244-017-0064-4>.

Artificial Communication? The Production of Contingency by Algorithms. *Zeitschrift für Soziologie* 2017, 46(4): 249-265. DOI: <https://doi.org/10.1515/zfsoz-2017-1014>

Comunicação artificial? A produção de contingência por algoritmos: A produção de contingência por algoritmos. Portuguese translation in *Revista Brasileira De Sociologia Do Direito*, 9(1), 2022: 4-21.
<https://doi.org/10.21910/rbsd.v9i1.638>

An ecology of differences: Communication, the Web, and the question of borders. Pp. 283-301 in Erich Hörl and James Burton (Eds.), *General Ecology. The New Ecological Paradigm*. London/New York: Bloomsbury, 2017.

Algorithmic memory and the right to be forgotten on the web. *Big Data & Society* 2017, 4(1).
DOI: 10.1177/2053951717703996.

Algorithmisches Gedächtnis und das Recht auf Vergessenwerden im Internet. German translation in Antonio Lucci et al. (Eds.) *Italian Theory*. Berlin: Merve, 2020: 238-273.

The fascination of contingency: Fashion and modern society. Pp.175-190 in Giovanni Matteucci and Stefano Marino (Eds.), *Philosophical perspectives on fashion*. London/New York: Bloomsbury, 2017.

- Temporal Markets Money, the Future and Political Action. *Behemoth*, 2016 (9/2): 37-45.
- Tools to Remember an Ever-changing Past. Pp.335-344 in Alberto Cevoloni (Ed.), *Forgetting Machines: Knowledge Management Evolution in Early Modern Europe*. Leiden/Boston: Brill, 2016.
- Öffnung für das Vorläufige. Die Mode im 17. und 18. Jahrhundert. Pp.73-82 in Daniel Fulda and Jörn Steigerwald (Eds.), *Um 1700: Die Formierung der europäischen Aufklärung Zwischen Öffnung und neuerlicher Schließung*. Berlin/Boston: de Gruyter, 2016.
- Introduction (with Erich Hörl) Reflexivität und System. Die Debatte über Ordnung und Selbstorganisation in den 1970er Jahren / Réflexivité et système. Le débat sur l'ordre et l'auto-organisation dans les années 1970, *Trivium* 2015, 20. URL : <http://trivium.revues.org/5206> URL : <http://trivium.revues.org/5132>.
- Beyond the Promise of Security: Uncertainty as Resource. *Telos* 2015, 170: 89–107. doi:10.3817/0315170089.
- Konstruktion der Zukunft und Gebrauch der Zukunft: Risiko als Gelegenheit. Pp.47-58 in Georg Pfeleiderer, Peter Seele, Harald Matern (Hrsg.), *Kapitalismus – eine Religion in der Krise II. Aspekte von Risiko, Vertrauen, Schuld*. Baden-Baden: Nomos, 2015.
- ルーマン後の社会システム論と現代社会学(Ruman go no shakaishisutemuron to gendai shakaigaku). *現代思想* 2014, 42(16): 75-85.
- Was binden Bonds? Das Eigentum an der Zukunft und die Verantwortung für die Gegenwart. Pp.55-66 in Thomas Macho (Hrsg.), *Bonds. Schuld, Schulden und andere Verbindlichkeiten*. München: Fink, 2014.
- Impossible Synchronization. Temporal Coordination in the Risk Society. *Zeitschrift für Medien- und Kulturforschung* 2014, 5(2): 333-345.
- L'incertezza come risorsa. Tecniche anticipatorie nei mercati finanziari. *Sistemi intelligenti* 2014, XXVI(2), 335-344.
- Die Präsenz des Möglichen: Ökonomische Kontingenz. Pp.77-95 in Wolf Dieter Enkelmann and Birger P. Priddat (Eds.) *Was ist? Wirtschaftsphilosophische Erkundungen. Definitionen, Ansätze, Methoden, Erkenntnisse, Wirkungen*. Marburg: Metropolis, 2014.
- Algorithmische Kontingenz. Der Umgang mit Unsicherheit im Web. Pp.233-249 in Alberto Cevoloni (Ed.) *Die Ordnung des Kontingenten. Beiträge zur zahlenmäßigen Selbstbeschreibung der modernen Gesellschaft*. Wiesbaden: Springer VS, 2014.
- The Present Use of the Future: Management and Production of Risk on Financial Markets. Pp. 17-26 in Christoph Luetge and Johanna Jauernig (Eds.), *Business Ethics and Risk Management*. Dordrecht: Springer, 2014.
- Plans and the Future: Designing the Unpredictable. Pp.100-108 in Michael Shamiyeh (Ed.), *Driving Desired Futures. Turning Design Thinking into Real Innovation*. Basel: Birkhäuser, 2014.

Pläne und die Zukunft. Das Unvorhersagbare gestalten. German translation in Werner Rammert, Arnold Windeler, Hubert Knoblauch, Michael Hutter (Eds.) *Innovationsgesellschaft heute. Perspektiven, Felder und Fälle*. Wiesbaden: Springer VS, 2016: 427-436.

Illusion und Imagination in der Produktion der Zukunft. Pp.28-38 in Reinhard Steiner and Caecilie Weissert (Eds.), *Lob der Illusion. Symposionsbeiträge*. München: scaneg, 2013.

Wie viel Altes braucht das Neue? Pp.133-145 in Hans Rudi Fischer (Ed.), *Wie kommt Neues in die Welt? Phantasie, Intuition und der Ursprung von Kreativität*. Weilerswist: Velbrück Wissenschaft, 2013.

Economic Circularities and Second-Order Observation: The Reality of Ratings. *Sociologica* 2013, 2. doi: 10.2383/74851.

Circularidades económicas y observación de segundo orden: La realidad de las calificaciones crediticias. Spanish translation *Revista Mad - Universidad de Chile* 2014, 30:1-24. doi: 10.5354/0718-0527.2014.30960.

Зацикленность экономики и наблюдения второго порядка: реальность рейтингов. Russian translation *Экономическая социология*. Т. 14. № 4. Сентябрь 2013, 14: 58-74.

Observations on a Conversation: Reply to Commentary. *Sociologica* 2013, 2. doi: 10.2383/74855.

The structures of uncertainty. Performativity and unpredictability in economic operations. *Economy & Society*, 2013(42): 102-129.

Las estructuras de la incertidumbre: performatividad e imprevisibilidad en las operaciones económicas. Spanish translation *Revista Mad - Universidad de Chile* 2020, 43: 29-46.

Limits of Interpretation, Closure of Communication. Umberto Eco and Niklas Luhmann Observing Texts. Pp.171-184 in Anders la Cour and Andreas Philippopoloulos-Mihalopoulos (Eds.) *Luhmann Observed. Radical Theoretical Encounters*. London: Palgrave Macmillan, 2013.

Theory crisis and the necessity of theory – The dilemmas of sociology. Pp.130-146 in Hervé Corvellec (Ed.) *What is theory? Answers from the social and cultural sciences*. Copenhagen: Liber, 2013.

Formen der Zirkularität in der Konstruktion der Zukunft. Pp. 325-340 in Daniel Weidner and Stefan Willer (Eds.), *Prophetie und Prognostik. Verfügungen über Zukunft in Wissenschaften, Religionen und Künsten*. Fink: München, 2013.

Doppelte Kontingenz. Pp.49-59 in Detlef Horster (Ed.), *Soziale Systeme*. Berlin: Akademie, 2013

The Valuation of Surprises and Its Enigmas. Pp.81-96 in Dirk Baecker and Birger P. Priddat (Eds.), *Ökonomie der Werte*. Marburg: Metropolis, 2013.

Digital prophecies and web intelligence. Pp.121-142 in Mireille Hildebrandt and Katja de Vries (Eds.), *Privacy, Due Process and the Computational Turn. The philosophy of law meets the philosophy of technology*. Oxon and New York: Routledge, 2013.

- Die Selbst-Falsifizierung der Technik und ihre Rätsel. Pp.63-74 in Viviana Chilese and Heinz-Peter Preusser (Eds.), *Technik in Dystopien. Jahrbuch Literatur und Politik 07*. Heidelberg: Winter, 2013.
- Zwischen Personalisierung und Cloud: Medialität im Web. Pp.231-253 in Lorenz Engell, Frank Hartmann and Christiane Voss (Eds.), *Körper des Denkens. Neue Positionen der Medienphilosophie*. München: Fink, 2013.
- Die Formen des Web-Gedächtnisses. Medien und soziales Gedächtnis. Pp. 91-103 in René Lehmann, Florian Öchsner and Gerd Sebald (Eds.), *Formen und Funktionen sozialen Erinnerns. Sozial- und kulturwissenschaftliche Analysen*. Wiesbaden: Springer VS, 2013.
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- Betting and fate. Observation and construction of the future/Wette und Schicksal: Beobachtung und Konstruktion der Zukunft. *The bet/Die Wette*. Berlin: Berliner Festspiele KW, 2013: 24-26.
- Die Konstruktion der Zukunft auf den Finanzmärkten/La costruzione del futuro sui mercati finanziari. Pp.261-267 in Gregor Vogt-Spira, Anke Fische, Luigi Galimberti-Faussone (Eds.), *Die Zukunft Europas: Junge Europäer aus Deutschland und Italien im Gespräch mit Giorgio Napolitano und Christian Wulff / Il futuro dell'Europa. I Giovani d'Italia e di Germania incontrano Christian Wulff e Giorgio Napolitano*. Stuttgart: Franz Steiner, 2012.
- Die Konstruktion einer offenen Zukunft. *Revue für postheroisches management* 2011(9): 10-15.
- Distinktion. *Build. Das Architekten-Magazin* 2010, X(1): 16-19.
- Un'osservazione esterna. Pp.43-48 in Vittorio Gallese *et al.*, *Assalto alla mente. Neuro(co)scienze e intersoggettività*. Quaderni Canossa, Collana di Filosofia e Scienze Sociali, 2010.
- Die Risiken der Rationalität und die Risikologik. *Agora* 42, 2010 (März-April): 28-31.
- La realtà del mondo e il realismo della finzione / The Reality of the World and the Realism of Fiction. Pp.48-57 in the catalogue of the exhibition *Realtà manipulate: come le immagini definiscono il mondo / Manipulating Reality: How Images Redefine the World*. Firenze: Alias, 2009.
- Riskante Risiken. Die Produktion der Zukunft durch die Finanzmärkte. *Revue für postheroisches management* 2009, 5: 16-21.
- Emergenz. *Build. Das Architekten-Magazin* 2009, IX(4): 14-17.
- Kontingenz. *Build. Das Architekten-Magazin* 2008, VII(3): 14-17.

- Probabilità improbabili. Realtà della finzione nel contemporaneo. *Social trends* Eurisko, 2008, 104(Aprile): 23-26.
- Die Konstruktion der Zeit in der zeitlosen Gegenwart. Frankfurt am Main: Max-Planck-Institut für europäische Rechtsgeschichte, 2007.
- Eine Erinnerung an das Vergessen. *Erwägen, Wissen, Ethik* 2002, 13(2): 248-249.
- Review of Adrian Brosziewski, *Aufschalten. Kommunikation im Medium der Digitalität*. Konstanz: UVK, 2003. *Soziale Systeme* 2004, 10(2): 402-405.
- Tradition und/oder Kultur. *Erwägen, Wissen, Ethik* 2004, XV(2): 242-244.
- Im Bewußtsein des Unsagbaren. Pp.63-66 in Theodor M. Bardmann and Dirk Baecker (Eds.), *"Gibt es eigentlich den Berliner Zoo noch?". Erinnerungen an Niklas Luhmann*. Konstanz: UVK, 1999.
- La novità dei 'new media'. Wien: *Springerin*, 1999.
- Das Neue an den neuen Medien läßt sich nicht beobachten! Pp.141-161 in Theodor M. Bardmann (Ed.), *Zirkuläre Positionen 2. Die Konstruktion der Medien*. Opladen Westdeutscher, 1998.
- Review of Joshua Meyrowitz, *Oltre il senso del luogo. L'impatto dei media elettronici sulcomportament sociale*. Bologna: Baskerville, 1993 and Norbert Bolz, *Am Ende der Gutenberg –Galaxis. Die neuen Kommunikationsverhältnisse*. München: Fink, 1993. *Teoria Sociologica*, 1993, I(2): 401-403.

TRANSLATIONS

Books

- La realtà dei mass media*. Milano: Angeli, 2000. Translation of Niklas Luhmann. *Die Realität der Massenmedien*. Opladen: Westdeutscher, 1996.
- Le due facce del potere*. Padova: Liviana, 1986. Translation of Peter Bachrach and Morton S. Baratz. *Power and poverty: theory and practice*. New York: Oxford University Press, 1970.

Selected articles

- Spencer Brown, George. Autoreferenza, distinzioni e tempo. Translation of: Selfreference, Distinctions and Time. *Teoria Sociologica* 1993, I(2): 47-53.
- Luhmann, Niklas. Come stanno le cose? Cosa ci sta dietro? *Teoria Sociologica* 1993, I(2): 115-146. Translation of: "Was ist der Fall?" und "Was steckt dahinter?" Die zwei Soziologien und die Gesellschaftstheorie. *Zeitschrift für Soziologie* 1993, 22(4): 245-260.
- Knorr Cetina, Karin. Epistemologie liminali e referenziali nella scienza contemporanea: un'etnografia dell'empirico in due scienze. Translation of: Liminal and Referent Epistemologies in Contemporary Science: An Ethnography of the Empirical in Two Sciences. *Teoria Sociologica* 1993, I(2): 258-282.

Hasse, Raimund, Krücken Georg and Weingart Peter. Situazione e prospettive del costruttivismo di laboratorio: una ricerca sociologica. *Teoria Sociologica* 1993, I(2): 309-336. Translation of: Laborkonstruktivismus. Eine wissenschaftssoziologische Reflexion. Pp. 220–262 in Rusch Gebhard, Schmidt Siegfried J. (Eds.), *Konstruktivismus und Sozialtheorie*. Frankfurt a. M.: Suhrkamp, 1994.

Günther, Gotthard. Bivalenza, paradossi logici e riflessione auto-referenziale. Pp. 219-242 in Rino Genovese (Ed.), *Figure del paradosso*. Napoli: Liguori, 1992. Translation of: Zweiwertigkeit, logische Paradoxie und selbst-referierende Reflexion. Pp. 61-79 in *Beiträge zur Grundlegung einer operationsfähigen Dialektik*, vol.2. Hamburg: Meiner, 1979.

Luhmann, Niklas. Sthenografia. Pp. 201-217 in Rino Genovese (Ed.), *Figure del paradosso*. Napoli: Liguori, 1992. Translation of: Sthenographie. Pp.119-137 in Niklas Luhmann, Humberto Maturana, Mikio Namiki, Volker Redder and Francisco Varela, *Beobachter - Konvergenz der Erkenntnistheorien?* München: Fink, 1990

PRESENTATIONS (LAST 10 YEARS)

KEYNOTE LECTURES

How to Communicate with Machines that do not Understand. 68. Jahrestagung der Deutschen Gesellschaft für Publizistik und Kommunikationswissenschaft (DGPK). University Bremen, 19 May 2023.

Berechenbare Zukunft? Zur Deutungsmacht der Algorithmen. Conference *Deutungsmacht von Zukunftsnarrativen*. University Rostok, 29-31 March 2023.

Interdisciplinarity, really? Interdisciplinary Workshop *Conceiving Cities, Understanding Interdisciplinarity*. HCU Hamburg, 14 February 2023.

Auftakt! *Eröffnung des Sonderforschungsbereichs 1567 Virtuelle Lebenswelten*. Bergbau-Museum Bochum, 18. November 2022.

Parlare a machine e algoritmi, *Festival della scienza*, Genova, 30. October 2022.

Proactive predictions. How algorithms manufacture the future they forecast. Abschlusskolloquium der dritten Kohorte des Graduiertenkollegs 1919: *Vorsorge, Voraussicht, Vorhersage*. Kulturwissenschaftlichen Institut Essen 19. – 21. September 2022.

Artificial Communication. Conference *Künstliche Intelligenz als geistes- & sozialwissenschaftlicher Begriff*. Schaufler Kolleg, TU Dresden, 1- 3 December 2021.

Prediction in the digital society. Workshop *Digital Relations. Prädiktion in der algorithmisierten Gesellschaft*. University Hannover, 23-24 September 2021.

Shared Uncertainty and Individual Prediction. Does Algorithmic Forecast Affect the Open Future? Conference *Soziale Medien. Schreibweisen der Gegenwart nach der Digitalisierung*, Alfried Krupp Wissenschaftskolleg Greifswald, 8 -10 Juli 2021.

Algoritmi. Previsione e opacità. Lectio magistralis. Festival*filosofia* Modena, September 18, 2020.

The Future of Prediction. Keynote Presentation. "Systems Theory and the Media. A Symposium in Honour of Heike Graf", Södertörns Högskola, Stockholm, 11 June 2019.

Algorithmic Memory and the Right to Be Forgotten on the Web. Keynote address. Conference "Society through the Lens of the Digital", Schloss Herrenhausen, Hanover, 31 May - 2 June 2017.

Pricing the Future. Keynote address. Conference „Intersections of Finance and Society”, City University London, 3-4 November 2016.

Algorithmic Memory and the Right to Be Forgotten on the Web. Keynote panelist. Conference "Unlocking the Black Box: The Promise and Limits of Algorithmic Accountability in the Professions", Yale Law School, April 2, 2016.

Artificial Communication. The production of contingency by algorithms. Inaugural talk for the Niklas Luhmann Distinguished Visiting Chair in Social Theory, Bielefeld University, December 9, 2015.

The time of money in finance and U.S. society. Keynote address. Conference "Financial Times: Economic Temporalities in U.S. Culture", Goethe-University Frankfurt am Main, March 26 - 28, 2015.

Expecting surprises on financial markets. Keynote address. Conference "New Industries. Geld und Schulden in der postindustriellen Welt", Hardware MedienKunstVerein in Dortmunder U, January 18, 2014.

Order of play - disorder of the world. Keynote address. Conference "Games of Late Modernity. Johan Huizinga's *Homo Ludens*: 75 Years Later", Tilburg University, January 16, 2014.

In and out. Fashion and the culture of transitoriness. Keynote address. III Lisbon Summer School for the Study of Culture, Lisbon Consortium, June 24-29, 2013.

Vergessen im Web: Entwicklungen der ars oblivionalis. Keynote address. Conference „Vergessen, Verstecken, Verschleiern", Schloss Mickeln, University Düsseldorf, June 6-8, 2013.

What do bonds bind? The property of the future and the responsibility of the present. Keynote address. Conference "Bonds: Guilt, Debts and other Liabilities", Humboldt-Universität and Haus der Kulturen der Welt, Berlin, December 6-8, 2012.

La transitorietà e le cose alla moda. Lectio magistralis. Festival*filosofia* Modena, September 14, 2012.

CONFERENCE PRESENTATIONS

Dall'Intelligenza Artificiale alla Comunicazione Artificiale. Seminario di *Tecnologia, Politica, Società*. Scuola Superiore Sant'Anna, Pisa, 21 April 2023.

Disinformation, Social Media and Elections. Workshop *Democracy in Europe*, Bertinoro Conference Centre University of Bologna, 12 April 2023.

Comunicare con gli algoritmi. Workshop *Un simposio attorno al volume Comunicazione artificiale di Elena Esposito*. Università Cattolica del Sacro Cuore Milano, 7 February 2023.

The Future Present in the Present Future. International workshop *After Preparedness: The Organizational Dimension*. Sciences Po, Paris, 7-8 November 2022.

(with David Sark and Olier Borraz) **Organizer** of the International workshop *After Preparedness: The Organizational Dimension*, Sciences Po, Paris, 7-8 November 2022.

Organizer of the workshop *Machine Learning in insurance, medicine, and policing*, Bielefeld University 21-22 October 2022.

To Personalize or to Be Personalized? Individual Identity and Digital Profiling. International Conference *The challenge of Participation*, University Siegen, 5- 7 October 2022.

Motor Risk as Danger and as Opportunity. International Conference *Driving the Next in motor risk*. Swiss Re Center for Global Dialogue Rüschtikon, 26-27 September 2022.

Author Meets Critics session on *Artificial Communication. How Algorithms Produce Social Intelligence*). SASE Annual Conference “Fractious Connections: Anarchy, Activism, Coordination, and Control”, University of Amsterdam, 9-11 July 2022.

Does Explainability Require Transparency? International conference of the TRR 318 *Co-constructing Explainability*, University Bielefeld, 23 June, 2022.

(with Tobias Matzner) **Organizer** of the International conference of the TRR 318 *Co-constructing Explainability*, University Bielefeld, 23-24 June, 2022.

(with David Sark and Turo-Kommo Lethonen) **Organizer** of the preparatory workshop *After Preparedness: The Organizational Dimension*, Weizenbaum Institute Berlin, 6-7 June 2022.

La digitalizzazione dell’industria assicurativa: effetti sociali delle tariffe comportamentali nel ramo RC auto (with Alberto Cevolini). Annual Conference SISEC “Il lavoro della transizione. Tecnologie, politiche ed ecologia del lavoro nel XXI secolo”. University of Bologna, 8-11 June 2022(9 June).

Prevention and prediction in general perspective. Workshop *Prevention and prediction in insurance, medicine, and policing*. Bielefeld University 24-25 February 2022.

Organizer of the workshop *Prevention and prediction in insurance, medicine, and policing*. Bielefeld University 24-25 February 2022.

Behaviour-Based Prediction and Prevention: Open Issues About Future Insurance. Workshop *The Future of Insurance. How Does Algorithmic Prediction Affect Insurance Practices?* University of Bologna, 19 November 2021.

(with Aberto Cevolini) **Organizer** of the workshop *The Future of Insurance. How Does Algorithmic Prediction Affect Insurance Practices?*. University of Bologna, Bologna, 18-19 November 2021.

From Statistical Uncertainty to Algorithmic Forecast. Panel *The algorithmic turn of prediction*. 4S 2021 Virtual, 6 October 2021.

Prediction in the digital society. Workshop *Digital Relations*, University Hamburg, 23-24 September 2021.

Digitale Daten and Algorithmische Vorhersagen (with Maximilian Heimstädt and Simon Egbert). Virtuelle Jahrestagung der Sektion Organisationssoziologie der Deutschen Gesellschaft für Soziologie *Große Herausforderungen und Organisationen: Themenfelder, Theorien und Methoden im Umbruch*. 10 – 11 June 2021.

From Actuarial to Behavioural Valuation: The Impact of Telematics on Motor Insurance (with Alberto Cevolini). Workshop *Insurance and Society*, Max Planck Institute für Gesellschaftsforschung, Köln (online).

Divinatory Features of Algorithmic Prediction. Conference *Vorausschauen, Vorausdenken, Vorausberechnen*. Friedrich-Alexander Universität Erlangen-Nürnberg, 5 February 2021.

Impulse Speech: Towards a Society of Human & Machines. Conference *Digitalization of Knowledge and Industrial Technologies*. University Bologna, 7 November 2019.

Predicting and Explaining. IKKM Biennial Conference *Schalten und Walten. Towards Operative Ontologies*. Weimar University, 23-25 October 2019.

Forgetting Pictures. An excess of images to escape the present. Conference *Artificial Intelligence // Cultural Technology*, Tekniska Museet Stockholm, 14 June 2019.

Algorithmic Prediction vs. Shared Uncertainty. Social Consequences of Individualized Forecast. Organizer (with A. Cevolini) of the mini-conference at the SASE Conference *Fathomless Futures: Algorithmic and Imagined*, New York, 27-29 June 2019.

Description or Prediction? Restructuring Epidemiology in Cancer Medicine (with Moran Levy), SASE Conference *Fathomless Futures: Algorithmic and Imagined*, New York, 27 June 2019.

From Pool to Profile. Can we have Insurance Against Predicted Damages (with Alberto Cevolini), SASE Conference *Fathomless Futures: Algorithmic and Imagined*, New York, 27 June 2019.

Digitale Prognose: Von statistischer Ungewissheit zur algorithmischen Vorhersage. Conference *Kann Wissenschaft in die Zukunft sehen? Prognosen in den Wissenschaften*. Leopoldina-Studienzentrum Halle, 8-10 October 2018.

The Impact of Big Data. ESFRI Conference *Stay Tuned to the Future. Impact of Research Infrastructures*. Bologna, 24-25 January 2018.

- Lebenswelt als unmarked space. Die Logik der Technisierung.** Conference *Systemtheorie der Gesellschaft*. University Bielefeld, 8-9 December 2017.
- Was Luhmann von der Digitalisierung und von Algorithmen schon wusste.** Conference *Niklas Luhmann am OVG Lüneburg*. Leuphana University Lüneburg, 5-6 December 2017.
- The Future of Prediction. From Statistical Uncertainty to Algorithmic Forecast.** Conference *The Future of Judgement*. Zurich University of the Arts, 30. November – 1 December 2017.
- Smart but not Intelligent. The Communicative Competence of Algorithms.** Conference *The Intelligence of Algorithms*. Max Plank Institute for the History of Science, Berlin, 19-21 October 2017.
- Post-human and A-human. The Reference to Humans in Digital Communication** Interdisciplinary Workshop *Critiques of the Post-human*. Institute for Advanced Study in Humanities and Social Sciences, Zhejiang University, 13 October 2017.
- The Future of Prediction.** Conference *Market, Politics and Society: Continuity and Transformation*, IAS Zhejiang University and the University of Chicago Beijing Center, 14-15 September 2017.
- What's Observed in a Rating?** Conference of the International collaborative network "Performances of Value: Competition and Competitions Inside and Outside Markets", Bologna, 13-14 January, 2017.
- Organizing without understanding. Lists in divinatory and in digital culture.** Conference *Collecting, Sorting, Ordering. Practices of Listing in Popular Culture*, University of Siegen, 27-28 October 2016.
- Krisis and Critique.** Conference *Contemporary Perspectives on Systems Theory*, University of Macau, 16-17 September 2016.
- Predicted Uncertainty. Volatility Calculus and the Indeterminacy of the Future.** Conference *Economic Futures: Imaginaries, Narratives and Calculation*, Institut d'études avancées de Paris, 17-18 March 2016.
- Blindness and Power of Algorithmic Prediction.** Conference *Thinking Together*, Berliner Festspiele, 12 March 2016.
- Blindheit der Kritik.** Internationales Symposium *Was ist Kritik?* Neuer Berliner Kunstverein, 6 February 2016.
- Temporal markets. Money, the future and political action.** Conference "FUTUR€\$. Prospective Money and Money's Prospects", University of Basel, 24 - 26 September 2015.
- Observing the crisis: an observation.** Symposium "Financial Crises as Global Challenges: Actors, Structures and Logics of Global Finance", Tagungszentrum Schloss Herrenhausen, Hannover, June 24– 27, 2015.

Fiction and Simulation – social aspects. Workshop “Fiction and Simulation: Theories, Methods, Practices”, Deutsch-Italienisches Zentrum Villa Vigoni, April 27-30, 2015.

Possible Possibilities and Actual Possibilities. Workshop “Potentialization – The search for future possibilities”, Copenhagen Business School, Klitgaarden, April 21-23, 2015.

Interaktion mit Algorithmen. HDC Conference „Interaktion mit Maschinen“, University Würzburg, June 26-28, 2014.

Uncertainty as a Resource. Anticipatory Techniques in Finance. Conference “Joint Risk Design”, University Konstanz, May 15-17, 2014.

Ratings as Observation. Conference “Second Order Observation in Contemporary Society: Rating, Ranking, and Niklas Luhmann’s Social Theory”, Department of Philosophy, University College Cork, March 8-9, 2014.

Do we need an “open man”? The anthropology of agencements. ESF Exploratory Workshop on Agencing Markets, Cargèse, September 17-20, 2013.

Die Paradoxien der Verfassung: Introduction. Conference „Die Paradoxien der Verfassung. Interdisziplinäre und vergleichende Analysen“, University Modena-Reggio Emilia, May 31-June 1, 2013.

Virtual Contingency in Web Communication. Symposium “The Ecological Paradigm. Issues And Perspectives Of A General Ecology Of Media And Technology”, Ruhr University Bochum, January 16 – 18, 2013.

Economic Circularities and Second Order Observation. Conference “Embeddedness and Beyond: Do Sociological Theories Meet Economic Realities?”, Higher School of Economics, Moscow, 24-29 October, 2012.

OTHER INVITED TALKS

ChatGPT: promesse e illusioni. Limiti e potenzialità del fenomeno informatico del momento. Circolo dei lettori di Torino, April 17, 2023.

Governa l’algoritmo. Debate at the Istituto della Enciclopedia Italiana Treccani. Roma, 1 Febbraio 2023.

Artificial Communication. Project *The Creative Connection*. Abbaye de Royaumont, 17 January 2023.

The Future of Prediction. Centre Marc Bloch Berlin, 16 January 2023.

El futuro abierto en una época algorítmica. Seminario Internacional *Sistemas Sociales, Redes y Complejidad*, Guadalajara (online), 17 December 2022.

Algorithms as communication partners. Seminar *Technique & Society*, Adolfo Ibáñez University (Chile) (online), 13 December 2022.

Artificial Communication. *OneComDays TotalEnergies*, Paris, 28 November, 2022.

Comunicare con gli algoritmi. *BookCity* Milano, 17 November 2022.

Comunicazione artificiale. *Internet Festival 2022*, Pisa, 11 November 2022.

Gli algoritmi nella medicina di precisione. Colloquio *La medicina di precisione: intelligenza artificiale, algoritmi e professionisti sanitari*. Scuola Universitaria Professionale della Svizzera Italiana (SUPSI), 13 June 2022.

Emergence of Tomorrow London College of Fashion, 8 June 2022.

Algorithms as Communication Partners? Colloquium *Thinking the Future: Technology, Subjectivity and Ethics*. (online) North-West University, Potchefstroom (South Africa), 26 May 2022.

La rete e l'intelligenza artificiale. La rivoluzione degli algoritmi. Colloquio *Oggetti rivoluzionari. Per una storia del Novecento*. Fondazione San Carlo, Modena, 18 May 2022.

The Social Consequences of Algorithmic Forecast. Conference Series *Technological Change and Society*, European University Institute Florence, 16 May 2022.

Prevention and insurance: How digital technologies enhance the idea of proactivity. (with Alberto Cevoloni). Séminaire de la chair PARI (Programme sur l'appréhension des risques et des incertitudes), SciencesPo Paris, 20 April 2022.

Niklas Luhmann, Machines and Technique. UE613 - *Les philosophes et les machines au XX siècle*. EHESS Paris, 9 March 2022.

How Non-Thinking Algorithms Produce Social Intelligence. UE 741 - *Langue algébrique et algorithms*. EHESS Paris, 8 March 2022.

Divinatory Features of Algorithmic Prediction. Erich Auerbach Institute of Advanced Studies, University of Cologne, 17 January 2022.

The Social Consequences of Algorithmic Forecast. Technische Universität Berlin, 8 December 2021

Algorithmen und Entscheiden in Polizeiorganisationen (with Simon Egbert and Maximilian Heimstädt). *Management-Kolleg 2021*, Deutsche Hochschule der Polizei, Muenster, 10 November 2021.

Participation in the *Volkswagenstiftung Symposium for breakthroughs in social science and Humanities*. Berlin, Falling Walls, 8 November 2021.

Intelligenze artificiali. Le macchine penseranno come noi? Sapiens Festival 2021, Darfo Boario Terme, 27 Settembre.

Algoritmi comunicazione complessità. Dialogue with Fabrizio Barca, Dialoghi Pandora Rivista 2021, Bologna, 18 September 2021 <https://www.youtube.com/watch?v=ENBeobwz4p8>.

Ci pensa Lei? Limiti e incognite dell'intelligenza artificiale. Debate with Luciano Floridi and Marco Pacini, Festival *Vicino/Lontano*, Udine, 30 June 2021.

Participation in the roundtable **Digitizing peoples in uncertain times: Interface methods for interventions on populations.** University Bologna, 13 May 2021.

Algorithmic Prediction in Digital Insurance: A Sociological Viewpoint (with Alberto Cevolini). University of Lausanne (online), 30 April 2021.

Foresight and algorithmic predictions. ERC – R&I Foresight seminar *The changing nature of the future in policy*. Brussels, 22 March 2021.

Come decidono gli algoritmi? Conference series *Reti e piattaforme*. CUBO Bologna, 10 February 2021.

The Future of Prediction. King's Business School, King's College London, 23 September 2020.

Algorithmic Prediction: Between Statistics and Divination. Dahlem Humanities Center Berlin, 11 February 2020.

The Future of Prediction. Conference at the Zentrum für Zeithistorische Forschung Potsdam, 5 December 2019.

Predictive Policing. Conference in the series *Algorithmen, Neuronale Netzze, Künstliche Intelligenz*. Kunsthalle Bielefeld, 26 November 2019.

Algorithmen, Neuronale Netzze, Künstliche Intelligenz. Organizer (with A. Cevolini and Guenter Kueppers) of the series of conferences at the Kunsthalle Bielefeld, 15 October 2019 – 21 January 2020.

Concluding Remarks. ZoneModa Conference 2019 *Be Cool! Aesthetic Imperatives and Social Practices*, University of Bologna, Rimini Campus, 18 May 2019.

Fashion and the culture of transitoriness. *Séminaire Mode et moralité*, INHA Paris, 15 May 2019.

Algorithmic Remembering and Forgetting. *Institut Jean Nicod*, Paris, 14 May 2019.

Money is Time. *EHSS* Paris, 7 May 2019.

From statistical uncertainty to algorithmic forecast. *Séminaire de philosophie-économique*, University of Marseille, 3 May 2019.

Die Realität der Fiktion. Die Ausbeutung von Ungewissheit in der Wirtschaftswissenschaft. Museum Angewandte Kunst, Frankfurt, 5 December 2018.

- Algorithmische Vorhersage.** *Digitaler Salon*, University Witten/Herdecke, 28 November 2018.
- Forms and Consequences of Prediction.** *I²SoS*, Bielefeld University, 27 November 2018.
- From Average Treatments to n-of 1 Prediction. Consequences of Algorithmic Forecast in Precision Medicine.** Data & Society Research Institute, New York, 31 October 2018.
- Predictive Effectiveness vs. Preventive Effectiveness in Predictive Policing.** Berkman Klein Center for Internet and Society at Harvard University, 30 October 2018.
- The Social Consequences of Algorithmic Forecast in Insurance, Medicine, and Policing.** PAIR – Google AI, Cambridge (Mass.), 29 October 2018.
- Digital Futures.** Inaugural Lecture Leuphana University Lüneburg, 11 October 2018.
- Future and uncertainty in the digital society.** Lecture series “Making sense of the digital society”. Alexander von Humboldt Institute for Internet and Society, Berlin, 12 March 2018.
- Rational Divination.** *1948 Unbound*. Haus der Kulturen der Welt, Berlin, 2 December 2017.
- The future of algorithms. Premises and perspectives of digital prediction.** Max Planck Institute for the History of Science, Berlin, 2 July 2017.
- Ratings and second-order Observation.** Workshop of the SFB “Praktiken des Vergleichens” Bielefeld, 25-26 May 2017.
- What’s Observed in a Rating? Rankings as Orientation in the Face of Uncertainty.** Zentrum für interdisziplinäre Forschung der Universität Bielefeld, 28 October, 2016.
- What do we talk about when we talk about risk?** The New School for Public Engagement, New York, 14 October, 2015.
- Modelle imitieren, um anders zu sein. Die Paradoxien der Mode.** Ästhetik-Festival 2015 „Paradox“. University and Kunsthalle Bielefeld, October 9, 2015.
- Algorithms and Communication.** Department of Management, Politics and Philosophy, Copenhagen Business School, April 24, 2015.
- Die Gegenwart der Zukunft.** Akademie der Bildenden Künste München, January 13, 2015.
- Remembering to forget in the web. The right to be forgotten and its paradoxes.** Seminar on Cultural Memory, Columbia University, December 1, 2014.
- Futures, the future and time.** Workshop “European and Global Cultures. Perspectives on Architecture & Economy”, Biennale Architettura Venezia, July 27, 2014.
- The Art of Forgetting in the web 2.0.** Meiji University, Tokyo, July 15, 2014. (<http://ex-server.muc.meiji.jp/Mediasite/Play/9cdc19509ecb4cc79d07fa6269c3b0a21d>)
- The Reality of Ratings.** North American Studies Program, University Bonn, July 3, 2014.

Virtual Contingency. Digital Techniques of Remembering and Forgetting. Institute of Advanced Studies University of Warwick, June 4, 2014.

Systemic Perspectives on Money & Futures, Summer School “Next Society’s Systems Theory”, Zeppelin University Friedrichshafen, May 14, 2014.

La realtà della finzione. Istituto Svizzero, Roma, April 11, 2014.

Memory and Forgetting in the Web. ICI Berlin Institute for Cultural Inquiry, January 27, 2014.

Ratings and Rankings as Form of Observation. IKKM Lectures, Weimar, January 22, 2014.

Money, Risks and Markets. Hertie School of Governance, Berlin, November 12, 2013.

Ars Oblivionalis – digital techniques of remembering and forgetting. MECS Lecture Series, University Leuphana Lüneburg, November 5, 2013.

Betting and Fate: Observation and Construction of the Future. Berliner Festspiele, July 13, 2013.

Innovation and Novelty . Summer School “Reflexive Innovation”, DFG Graduate School *Innovation Society Today*, TH Berlin, June 5-7, 2013.

Paying Attention to Observation Theory: A Conversation on finance, networks and observation theory. Copenhagen Business School, May 27, 2013.

The Fiction of Statistics and the Reality of Fiction in Economics. Haupt-/Oberseminar “Fiktionalität”, University Tübingen, May 21, 2013.

Bedrohung oder Gelegenheit? Risiko und Überraschung in den Finanzmärkten und in der Gesellschaft . Kolloquium „Risiko und Wissen“, Center *Geschichte des Wissens*, ETH Zürich, April 24, 2013.

Podium Risikogesellschaft, Neue Zürcher Zeitung, March 21, 2013.

Originality through Imitation. The Rationality of Fashion. Workshop „Theorizing Fashion. Fashion and Knowledge in Contemporary Theory“. Graduiertenkolleg *Sichtbarkeit und Sichtbarmachung. Formen hybriden Bildwissens*, University Potsdam, December 18, 2012.

TV PRESENTATIONS

Fuori Tg, RAI 3, March 2023.

RAI (Radiotelevisione Italiana) *#I Maestri*

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