

Cyber- Physical Systems and Law

Through the Lens of "Pluriverse"

About the Series In recent years, faced with the emergence of global agendas, many early career researchers may be turning their attention to solving social issues in the international society through their research themes and career. In this series, early career researchers who are active on the global arena will share their perspectives based on their own experiences as examples and discuss with participants strategies on how to look forward to careers and research issues balancing between the whole and the individual and between competition and coexistence.

About the Fourth Session Technology and natural environments are changing at astonishing rates. Many people recognize that these changes are the products and consequences of human activities and reversely exert positive and negative impacts on human societies, transcending national boundaries. If it is, however, not realistic for us to address global issues in cooperation toward a shared human value, how countries and areas with different values and systems can manage the situation effectively as a whole? In this fourth session, four experts will discuss with you how to design and implement shared mechanisms among autonomous countries in this pluralistic world to maintain balance when cyber-physical systems are growing. Join us to shape the future of science and technology.

Tuesday 11 Feb. 2025 [public holiday] International Hall III,
Kyoto University Centennial Clock Tower Memorial Hall 2F

Part 1 13:00–16:50 | Part 2 16:50–17:30 | Participants Graduate students, postdocs, researchers, URAs

Event Format On-site (group discussion) / Online (on Zoom; accepting comments)

Language Japanese & English (simultaneous interpretation available) | **Registration Fee** Free

Registration <https://forms.gle/qVXbPrsX1Baxumw67>

Registration Deadline Monday, 10 Feb. 2025 at noon (Registration for on-site participation may close before the deadline due to capacity constraints.)



Cyber-Physical Systems and Law: Through the Lens of "Pluriverse"

13:00-13:05 **Opening Remarks**

ISHIKAWA Fuyuki [Vice-President for Academic Research Support, Kyoto University / Director of Kyoto University Research Administration Center (KURA) / Director of Center for Enhancing Next-generation Research]

Part 1

Symposium

Cyber-Physical Systems and Law: Through the Lens of "Pluriverse"

13:05-13:10 **Introduction**

NAKANO Asa [Center for Enhancing Next-generation Research, Kyoto University]

13:10-13:50 **Governance of Cyber-Physical Systems**

| Aiming for coexistence between human and non-human beings |

"Governance of CPS Through the Co-evolution of Science and Technology and Law"

INATANI Tatsuhiko [Graduate School of Law, Kyoto University]

| With a perspective on research and development and distribution that integrates architecture, AI, and robotics |

"Challenges for the Development and Implementation of CPS as a National Strategy"

Russell Loveridge [The Swiss National Centre of Competence in Research (NCCR) in Digital Fabrication in ETH Zurich]

13:50-14:30 **Governance in Pluriverse**

| With a perspective on the "Pluriverse" through DFFT negotiations |

"Challenges for Agile Governance as It Transcends National Borders"

MEGURO Maiko [Digital Agency, Government of Japan / University of Amsterdam]

| With a perspective on Cyber-Physical systems viewed through the lens of decolonial ecologies |

"Issues in the Development of Science and Technology in the Pluriverse"

Federico Luisetti [University of St. Gallen]

14:30-14:45 **Break**

14:45-15:40 **Group Discussion with Speakers**

| Group Facilitators |

NISHIDA Masayuki [Center for Liberal Arts, Tohoku Gakuin University / Japanese Studies Center, Chiang Mai University]

HAYASHI Kazuki [Division of Architecture and Architectural Engineering, Graduate School of Engineering, Kyoto University / L-INSIGHT Fellow]

OKITA Kyoko [Center for Exploratory Research, Research & Development Group, Hitachi, Ltd.]

FUKUMOTO Kenshi [Department of Studies on Global Coexistence, Graduate School of Human and Environmental Studies, Kyoto University / L-INSIGHT Fellow]

YASUI Hiroshi [Center for Innovative Research, National Institutes for the Humanities / Multiculturalism and Intersectionality in Complex Cities, Doshisha University]

15:40-16:50 **Plenary Discussion**

| Moderator |

INATANI Tatsuhiko [Graduate School of Law, Kyoto University]

Part 2 16:50-17:30 **Networking & Refreshments**

Enjoy free refreshments from Maeda Coffee!

| Toast |

HIRAJIMA Takao [Director of Kyoto University Division of Graduate Studies]

Contact

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Prof. INATANI Tatsuhiko

Professor, Graduate School of Law, Kyoto University
Tatsuhiko Inatani is a Professor at the Graduate School of Law, Kyoto University, with a specialization in criminology and criminal policy. He is the principal investigator of the "Artificial Intelligence and Law" research unit at the Center for Interdisciplinary Studies of Law and Policy. He received his BA (2005) from the University of Tokyo and JD (2008) from Kyoto University. After serving as an Assistant Professor and an Associate Professor at the Graduate School of Law, Kyoto University, he has been in his current position since 2021. He conducted research as a visiting researcher at the Law School, Paris Institute of Political Studies and the Department of Political Science, University of Chicago from 2013 to 2015. His research focuses on corporate crime and the legal governance system for cutting-edge technology. He is serving as a member of the Digital Institutional Reform Study Group, the International Data Governance Advisory Committee, and the International Data Governance Study Group at the Digital Agency.



Prof. INATANI
Tatsuhiko

Dr. Russell Loveridge

Managing Director of the Swiss National Centre of Competence in Research (NCCR) in Digital Fabrication in ETH Zurich

Russell Loveridge studied civil engineering and architecture, completed his professional degree in Toronto, his MAS Diploma in Architecture at the ETH Zurich, and obtained his doctorate at the EPF Lausanne Switzerland. He has worked professionally in construction and architecture, but also has extensive experience in academics and was previously the Research Director at the Laboratory for Architectural Production (LAPA). His research investigates advanced fabrication methods, smart materials, and novel construction techniques all with a specific interest on how these emerging technologies affect processes of sustainable design. Since its inception in 2014 Russell has coordinated the NCCR's multi-disciplinary team of over 120 researchers, engineers and technical staff, helping to develop one of the most advanced research consortiums worldwide that focus on changing the way we design and build.



Dr. Russell
Loveridge

MEGURO Maiko

Director for International Data Governance and International Affairs, Digital Agency, Government of Japan / Research Fellow at University of Amsterdam

Maiko Meguro internationally represents the Agency for G7/G20, OECD and other bilateral strategic partnerships on behalf of the Digital Agency. She also leads the policy development and inter-agency coordination regarding international data governance/Data Free Flow with Trust and data security. Previously, as Director of the Ministry of Economy, Trade and Industry (METI), she led the G7 Digital Track and Data Free Flow with Trust during the G7 Japanese presidency. From 2018 to 2021, she served as a legal officer at DG CONNECT, the European Commission. She is also a research fellow of public international law and legal theories at University of Amsterdam, the Netherlands. She publishes from major American, European and Japanese legal journals on international law, international economic law, and law & technologies (Artificial Intelligence, data etc).



MEGURO Maiko

Prof. Federico Luisetti

Full Professor of Italian Studies and Environmental Humanities, University of St. Gallen

Federico Luisetti studied Aesthetics at the University of Turin and then received a Ph.D. in Comparative Literature from the Graduate Centre, City University of New York. He has been Professor of Italian Studies, Communication, and Comparative Literature at the University of North Carolina at Chapel Hill. He is currently Professor of Italian Studies and Environmental Humanities at the University of St. Gallen. Luisetti is the author of books and essays on critical theory and the environmental humanities, including *Nonhuman Subjects. An Ecology of Earth-Beings* (Cambridge University Press 2023). He coordinates the collaborative research network in political ecology Unruly Natures.



Prof. Federico
Luisetti

Dr. NISHIDA Masayuki

Junior Associate Professor, Center for Liberal Arts, Tohoku Gakuin University / Visiting Assistant Professor, Japanese Studies Center, Chiang Mai University

Research keywords: anthropology, Southeast Asia, political ecology, spirit beliefs, minorities, popular culture



Dr. NISHIDA
Masayuki

Dr. HAYASHI Kazuki

Assistant Professor of Architecture and Architectural Engineering, Graduate School of Engineering, Kyoto University / L-INSIGHT Fellow

Research keywords: structural optimization, computational design, machine learning.



Dr. HAYASHI
Kazuki

OKITA Kyoko

Senior Manager, Center for Exploratory Research, Research & Development Group, Hitachi, Ltd.

Research Keywords: future center, vision design, open collaboration, inclusion, project planning.



OKITA Kyoko

Dr. FUKUMOTO Kenshi

Associate Professor of Studies on Global Coexistence, Graduate School of Human and Environmental Studies, Kyoto University / L-INSIGHT Fellow

Research keywords: history, Eastern Europe, medicine, environment, technology.



Dr. FUKUMOTO
Kenshi

Dr. YASUI Hiroshi

Research Fellow, Center for Innovative Research, National Institutes for the Humanities / Research Fellow, Multiculturalism and Intersectionality in Complex Cities, Doshisha University

Research keywords: Israel and Palestine studies, critical animal studies, queer theory, gender and sexuality.



Dr. YASUI Hiroshi