



JAPAN, AUSTRALIA,  
UNITED STATES

TRILATERAL AI EXPERTS GROUP

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# TRANSFORMING AI COOPERATION: POLICY, ENVIRONMENT, AND CAPABILITY GAPS

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NOVEMBER • 7-8 • 2023

TOKYO, JAPAN



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# WORKSHOP PARTNERS

## AUSTRALIAN DEPARTMENT OF DEFENCE



Defence's mission and purpose is to defend Australia and its national interests in order to advance Australia's security and prosperity. In fulfilling this mission and purpose, Defence serves the Government of the day and is accountable to the Commonwealth Parliament, which represents the Australian people, to efficiently and effectively carry out the Government's defence policy. Defence defends Australia and its national interests through the conduct of operations and provision of support for the Australian community and civilian authorities in accordance with Government direction. Defence protects and advances Australia's strategic interests through the provision of strategic policy, the development, delivery and sustainment of military, intelligence and enabling capabilities, and the promotion of regional and global security and stability as directed by Government.

This activity is supported by the Australian Government through a grant by the Australian Department of Defence. The views expressed herein are those of the authors and are not necessarily those of the Australian Government or the Australian Department of Defence.

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## RESEARCH CENTER FOR ADVANCED SCIENCE AND TECHNOLOGY, UNIVERSITY OF TOKYO



The Research Center for Advanced Science and Technology (RCAST), the newest institute attached to the University of Tokyo, aims to contribute to the development of science and technology by expeditiously taking on new challenges arising from the advancement of science and coincident changes in society, and by exploring new areas of advanced science and technology for the benefit of humankind and society since its establishment in 1987. More than 40 eponymous labs for a wide variety of specialized fields are pursuing advanced research in science and technology as well as in social sciences and the field of barrier-free research. We extend these research areas over a wide range, from basic and applied fields further to the social system.

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## RMIT UNIVERSITY



RMIT is a global university of technology and design and Australia's largest tertiary institution. The University enjoys an international reputation for excellence in professional and vocational education and outcome-oriented research. RMIT is a leader in engineering, accounting and finance, computer science and information systems, global studies, communication and media studies, sociology, psychology, education, law and economics.

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## PACIFIC FORUM



Founded in 1975, the Pacific Forum is a non-profit, foreign policy research institute based in Honolulu, Hawaii. The Forum's programs encompass current and emerging political, security, economic and business issues and works to help stimulate cooperative policies in the Indo-Pacific region through analysis and dialogue undertaken with the region's leaders in the academic, government, and corporate areas.





## SERIES CONTEXT AND OVERVIEW

Artificial intelligence is expected to lead the world in the next evolutionary and industrial boom. Unmatched potential and opportunity for solving development challenges, pollution, crime, and poverty exists. At the same time the implications for AI misuse, exploitation, and even weaponization are also profound. Russia's war of aggression in Ukraine has provided a glimpse of the future potential for AI in lethal autonomous weapons. Cyber intrusions, transnational crime, election tampering, deep fake videos, and the exploitation of civilian AI programs for malicious uses offer some examples of the emerging threat posed by unregulated AI.

The United States and China are at the forefront of this evolutionary development, outpacing all other states combined. Both provide opportunities for enriched development, but they are also in a state of declared strategic competition. In China, state policies directed toward building civil-military fusion and adapting capabilities for informatized and intelligentized warfare has caused anxiety in many capitals. Policies of non-transparency, state-backed repression in Xinjiang and Hong Kong, mass surveillance, and more broadly the revision of norms around international law, human rights, diplomacy, and trade have darkened the horizon and the potential of AI.

These threats require a sophisticated understanding of the capabilities shared among partners. The aim of this dialogue series is to understand how Australian authorities can better contribute to and maximize AI development and cooperation. As Australia, Japan, and the United States each seek to strengthen their AI capabilities, how will each nation contribute to AI defence? What overlap and specialization exists? What important technologies, conceptual advances or differences define cooperation shortfalls? How can the trio work better to enhance deterrence and build resilience in AI value chains? These are some of the many questions this series seeks to address.

This third dialogue will be held in Tokyo at the University of Tokyo. The dialogue will bring together top AI minds in Japan on technical, policy, and strategic issues and add much needed connective tissue to hitherto disparate entities of knowledge, practice, and culture.



# EVENT PROGRAM

NOVEMBER • 7 • 2023

REGISTRATION

8:30AM-9:00 AM

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WELCOME REMARKS

9:00AM-9:30 AM

Aiden Warren and Charlie Hunt

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OVERVIEW OF THE DIALOGUE

9:30AM-10:30AM

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COFFEE BREAK/GROUP PHOTO

10:30AM-10:45AM

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SESSION ONE:

10:45 AM-12PM

Japan's AI Landscape

Akira Igata and Arisa Ema

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LUNCH

12:00PM - 1PM

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SESSION TWO:

1:00PM-2:30PM

AI security

Daisuke Kawai and Dai Mochinaga

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SESSION THREE:

2:30PM-4:15PM

AI and International Relations

Wilhelm Vosse and Akira Igata

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WRAP UP / END OF WORKSHOP

4:15-4:30PM

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COCKTAILS / RECEPTION

4:30-5:00PM

## NOVEMBER • 8 • 2023

MORNING TEA

9:00AM-9:30 AM

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SESSION FOUR:

9:30AM-10:45 AM

Ethics and governance of AI

Hiroki Habuka, Tomonori Yoshizaki, and Mina Takazawa

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SESSION FIVE:

10:45 AM-12:15 PM

AI capability gaps

Christopher Lamont and Mark Manantan

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LUNCH / END OF DAY TWO

12:30-2:00PM



# DISCUSSION DESCRIPTION

## SESSION ONE: JAPANESE AI LANDSCAPE

This session will provide an overview of Japanese AI development and its implications for defense, security, and diplomacy. In which areas of defense and security do AI have the most promising application in the short, medium, and long-term? In this session, speakers will examine how AI is shaping strategic competition between the US, China, and Russia and what this means for Japan and broader defence. Particular attention will be devoted to the current state of AI cooperation between the US, Japan, and Australia under the cooperative framework of Trilateral Security Dialogue (TSD). This session will also tackle the vital role of the private sector, particularly, tech companies as the main drivers of AI innovation.

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## SESSION TWO: SECURITY OF ARTIFICIAL INTELLIGENCE

This session will focus on the relationship between security and dual-use technologies like AI. What is the current state of play on AI security, resilience, and reliability? What are the common vulnerabilities and risks that underpin AI throughout its life cycle? How do security challenges with respect to data, algorithmic training, and semiconductors impact AI development? What are the current policies that underpin the exchange of data, technology, and talent in AI among the US, Australia, and Japan? Is there a need to adopt new cybersecurity standards and data transfer arrangements on AI with respect to its military applications within the TSD? How do export controls play a role in ensuring the security of supply-chains concerning AI and its related tech applications?

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## SESSION THREE: AI AND INTERNATIONAL RELATIONS

In this session, speakers will assess trilateral alignment across stages of design, development, and the deployment of AI-enabled technologies in defense and security. It will give a cross-cutting assessment of AI development and application at the strategic, tactical, and operational levels. Additionally, the session will examine the feasibility of adopting a common language towards AI development to streamline research, development, and deployment. A key question in this session will be how public-private partnership can play a role in improving interoperability of AI-enabled technologies.



## SESSION FOUR: AI AND ETHICS

This session will examine how the US, Australia, and Japan undertake AI research, development, and implementation from the viewpoint of ethics. Apart from their membership to multilateral groupings like the Global Partnership on AI, is there appetite within TSD to develop ethical guidelines on AI-enabled technologies specifically for defense and military applications? How will the TSD balance human rights considerations to keep pace with China and Russia amid deepening strategic tech competition? With initiatives like DARPA, how will the US government cultivate trust and transparency with the tech sector given growing distrust on the ethical implications of AI-infused military technologies?

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## SESSION FIVE: CAPABILITY GAPS IN ALLIES

Speakers and participants will provide insights on areas where there is alignment and misalignment on AI design, development, and deployment within TSD. It will examine the comparative advantages in AI as well as highlight pressing gaps on talent development and public-private partnerships. It will also probe points of convergence and divergence within existing regional security groupings like the Quadrilateral Security Dialogue and AUKUS. Furthermore, it will also assess how the Trilateral Security Dialogue could impact regional perceptions, particularly through forums like the Association of Southeast Asian Nations. What steps should be taken to build confidence among key stakeholders across the Indo-Pacific?

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## PRESENTERS



PROFESSOR AKIRA IGATA  
RCAST, UNIVERSITY OF TOKYO

Akira Igata is a Project Lecturer at the Research Center for Advanced Science and Technology, the University of Tokyo. He is also an Adjunct Senior Fellow at Pacific Forum, a US-based think tank, Senior Fellow at the Australian Strategic Policy Institute (ASPI), and a Non-Executive Director at the Inter-Parliamentary Alliance on China (IPAC). He advises the Japanese government, bureaucracy, and the private sector in various capacities.

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DR ARISA EMA  
INSTITUTE FOR FUTURE INITIATIVES, UNIVERSITY OF TOKYO

Arisa Ema is Associate Professor at the Institute for Future Initiatives, the University of Tokyo and Visiting Researcher at RIKEN Center for Advanced Intelligence Project in Japan. She is a researcher in Science and Technology Studies (STS), and her primary interest is to investigate the benefits and risks of artificial intelligence by organizing an interdisciplinary research group.

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DAISUKE KAWAI  
(RCAST), THE UNIVERSITY OF TOKYO  
DEPUTY DIRECTOR OF THE ECONOMIC SECURITY RESEARCH PROGRAM

Daisuke Kawai is a Project Assistant Professor, and the Deputy Director of the Economic Security Program at the Research Center for Advanced Science and Technology (RCAST), The University of Tokyo, where he focuses on economic security and critical and emerging technologies, covering the Indo-Pacific region. He has contributed to projects in line with the Economic Security Promotion Act, commissioned by the Council for Science, Technology, and Innovation within the Cabinet Office of Japan. His areas of expertise include Japan's foreign and security policy, Indo-Pacific security, arms control, and economic security, with a special interest in critical and emerging technologies (CETs).



DR DAI MOCHINAGA  
SHIBAURA INSTITUTE OF TECHNOLOGY

Dai Mochinaga is Assistant Professor at the College of Systems Engineering and Science at Shibaura Institute of Technology. He is affiliated with Keio Research Institute at SFC and JPCERT/CC. Prior to joining the Shibaura Institute of Technology he was a researcher at Mitsubishi Research Institute and an analyst at JPCERT/CC. During his career, he has engaged in the research of measurement analysis of networked systems, network security, and international security. Dai has contributed to Japan's cybersecurity policy development, including technology development, critical infrastructure protection, and technical standards.

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MINA TAKAZAWA  
MICROSOFT

Ms Mina Takazawa is the Director of Government Affairs at Microsoft Japan. Prior to this, she worked at the Japanese Ministry of Foreign Affairs where she last served as a senior policy coordinator. At MOFA, she was the political counselor for Russia (2019-2022) and the first secretary for the economy at the Embassy of Japan in the US (2016-2019). She also served as the Deputy Director for South Asia Division, and Officer at the United Nations Policy Division from 2009 to 2015

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HIROKI HABUKA  
KYOTO UNIVERSITY

Mr Habuka is a research professor at the Kyoto University Graduate School of Law and the CEO of Smart Governance Inc. He is a former deputy director for global digital governance at Japan's Ministry of Economy, Trade and Industry (METI). While at METI, Mr. Habuka led several projects on digital governance, including artificial intelligence (AI), privacy protection, data security, and digital platform regulations. He served as a lead author on Japanese government white papers on agile governance issued by METI, "Governance Innovation" and "Agile Governance Update."

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PROFESSOR CHRISTOPHER LAMONT  
INSTITUTE FOR INTERNATIONAL RELATIONS, TOKYO INTERNATIONAL  
UNIVERSITY



Christopher Lamont is Assistant Dean of E-Track Programs and is Professor of International Relations at the Institute for International Strategy in Tokyo International University. He holds a PhD in Politics from the University of Glasgow (2008) and MSc in International and European Politics from the University of Edinburgh (2005) and a BA in International Studies from the University of Mississippi. Previously, Dr. Lamont was Assistant Professor of International Relations at the University of Groningen (2011-2018) and prior to that he was an R.C.U.K. postdoctoral fellow in the Transitional Justice Institute at the University of Ulster (2009-2011).

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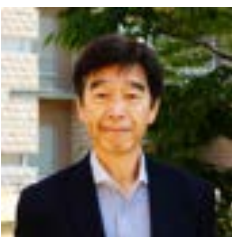
PROFESSOR WILHELM VOSSE  
INTERNATIONAL CHRISTIAN UNIVERSITY, TOKYO



Wilhelm M. Vosse is Professor of Political Science and International Relations at the International Christian University (ICU) in Tokyo, Japan, where he also serves as Chair of the Department of Politics and International Studies (2021-). He formerly also held the position of Director of the Social Science Research Institute (SSRI). Wilhelm held visiting research positions at Harvard University, the University of Oxford, and The University of Warwick. His research interests include Japanese foreign and security policy, EU-Japan security relations, cybersecurity, and cyber diplomacy. Research projects deal with Japan's new security partnerships and European and Japanese cyber diplomacy.

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PROFESSOR TOMONORI YOSHIZAKI  
TOKYO UNIVERSITY FOR FOREIGN STUDIES



Tomonori (Tom) Yoshizaki is a Professor at the Tokyo University for Foreign Studies. He was formerly Vice President for Academic Affairs of Japan Ministry of Defense's (MoD) National Institute for Defence Studies (NIDS). In addition to this, he has held positions as Director of Policy Simulation (2015-22), and Director of Security Studies Department (2011-2015) at NIDS. He has been regularly attending NATO Defence College Conference of Commandants (COC), and ASEAN Regional Forum (ARF) Meeting of Head of National Defense Universities/Colleges/Institutions.

Previously, he was an assistant director of Office of Strategic Studies of MoD, a visiting scholar at Kings College London, and Hudson Institute; His areas of expertise include alliance management, European security and NATO, Japan's security policy and peace operations.

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# PROGRAM TEAM: TRILATERAL AI EXPERTS GROUP

PROFESSOR AIDEN WARREN  
RMIT UNIVERSITY, SCHOOL OF GLOBAL, URBAN AND SOCIAL STUDIES



Dr. Aiden Warren is Professor in Politics and IR at the School of Global, Urban and Social Studies at RMIT University in Melbourne, Australia. He is also the Deputy Director of the Sir Lawrence Wackett Defence and Aerospace Centre and Fulbright Scholar in Australia-United States Alliance Studies. Professor Warren's teaching and research interests are in the areas of international security, US national security and foreign policy, US politics (ideas, institutions, contemporary and historical), international relations (especially great power politics), issues associated with weapons of mass destruction (WMD) proliferation, nonproliferation and arms control, and emerging technologies (Cyber, AI, autonomous weapons). Professor Warren has spent extensive time in Washington, DC, completing fellowships at the James Martin Center for Nonproliferation, the Arms Control Association (ACA), and Institute for International Science and Technology Policy (IISTP) at George Washington University. He is the coauthor of *US Foreign Policy and China: Security Challenges across the Bush, Obama and Trump Administrations* (Edinburgh University Press, 2021) and *Understanding Presidential Doctrines: U.S. National Security from George Washington to Joe Biden* (Rowman and Littlefield, 2022).

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DR CHARLIE HUNT  
RMIT UNIVERSITY, CENTRE FOR GLOBAL RESERACH



Dr Charles T. Hunt is Associate Professor of Global Security and Deputy Director (Strategic Policy and Defence Diplomacy) at the Sir Lawrence Wackett Defence & Aerospace Centre at RMIT University in Melbourne, Australia. He is also Senior Fellow (non-resident) at the United Nations University Centre for Policy Research in New York, USA.

His research is focused on global security governance, regional defence cooperation and civil-military responses to conflict management with recent articles published in *Survival*, *Cooperation and Conflict*, *International Affairs*, *International Peacekeeping*, and *Global Governance*. Dr Hunt is Editor-in-Chief of the quarterly journal *Global Responsibility to Protect* and on the editorial boards of *International Peacekeeping* and the *Journal of International Peacekeeping*.

Charles regularly provides expert policy research and advice to the United Nations Secretariat and defence and foreign ministries of a range of governments (including Australian, United States, UK, Canada, New Zealand) on how to respond to new and emerging security challenges.

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**PROFESSOR MATTHEW (MATT) WARREN**  
**RMIT CENTRE FOR CYBER SECURITY RESEARCH**



Dr Warren is the Director of the RMIT University Centre for Cyber Security Research and Innovation and a Professor of Cyber Security at RMIT University. He has held roles such as Deputy Director of University Research Centre, Head of School, Deputy Head of School, Program Leader for several programs during his tenure at Deakin University.

Matthew Warren is a researcher in the areas of Cyber Security and Computer Ethics. He has received numerous grants and awards from national and international funding bodies, such as: Australian Research Council (ARC); Engineering Physical Sciences Research Council (EPSRC) in the United Kingdom; National Research Foundation (NRF) in South Africa. Matthew Warren has taught in Australia, Finland, Hong Kong and the United Kingdom.

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**DR ADAM BARTLEY**  
**RMIT CENTRE FOR CYBER SECURITY RESEARCH**



Dr Bartley is a 2022 Fulbright Scholar and current resident fellow at the Elliot School for International Affairs, the George Washington University. In addition to this, he is a post-doctoral fellow at the Royal Melbourne Institute of Technology, program manager of the AI Trilateral Experts Group, and managing editor for the Australian Institute of International Affairs' Australia Outlook.

Dr Bartley's research covers US and Chinese foreign policy, their relational history, and their competition in emerging technologies, gray zone activities and artificial intelligence. He is the author of two manuscripts examining U.S. foreign policy and China and has contributed to articles examining whole of government applications to Indo-Pacific strategy in the United States. Adam is a former non-resident fellow with the Pacific Forum. In his current research, Dr Bartley addresses the overlap between AI development and gray zone activities in the Indo-Pacific and the role of small states within the context of great power competition.

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**MARK B. MANANTAN**  
**PACIFIC FORUM**



Mr Manantan is the Director of Cybersecurity and Critical Technologies at the Pacific Forum in Honolulu, Hawaii. At the Forum, he currently leads the US Technology and Security partnerships with Japan, Australia, Taiwan and South Korea as well as the Digital ASEAN Initiative that focuses on cyber-capacity building, artificial intelligence, foreign interference, and space diplomacy. He is also the host of Pacific Forum's official podcast, the Indo-Pacific Current.

Mr. Manantan is a non-resident fellow at the Center for Southeast Asian Studies, National Chengchi University, Taiwan, and formerly a research consultant at the Asia Society Policy Institute, Washington, DC. He has held visiting fellowships at the Japan Foundation, the Center for Rule-Making Strategies at Tama University in Tokyo, Japan, and the East-West Center, Washington, DC. Prior to that, he was a media, public relations, and advertising executive for Procter & Gamble, Wells Fargo, Aboitiz Equity Ventures, and UNICEF.

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