arc training centre for **information resilience**

11TH INFORMATION SYSTEMS FOUNDATIONS WORKSHOP

ISF 2026 Program

Theorising for Information Systems Resilience in a Turbulent Digital World

2–3 November 2026

Teaching Suite 227, UQ Brisbane City

308 Queen St, Brisbane City QLD 4000

ARC Training Centre for Information Resilience (CIRES) · The University of Queensland · Brisbane, Queensland 4072 Australia · cires.org.au

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Organised by the National Centre for Information Systems Research, Research School of Management, The Australian National University, in conjunction with the ARC Training Centre for Information Resilience and the Business Information Systems discipline, UQ Business School, The University of Queensland.

SUPPORTED BY

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ARC Training Centre for Information Resilience · UQ Business School Emerging Technology Hub · The Australian National University · The University of Sydney

Welcome

> *Everything fails, all the time.*
>
> **Werner Vogels, Chief Technology Officer, Amazon**

Welcome to the eleventh Information Systems Foundations Workshop. ISF began in 1999, convened by Kit Dampney at Macquarie University, and has run biennially from 2002 at the Australian National University. Its subject has never changed: the theoretical foundations of information systems.

This year we take up resilience. Modern digital environments are no longer defined by the occasional catastrophe. Organisations, governments and societies face a stream of smaller but constant disruptions — algorithmic failures, data leaks, supply-chain interruptions, platform outages, misinformation, and rapid shifts in digital infrastructure. These everyday shocks accumulate and interact, producing a systemic turbulence that stability-oriented models cannot address. Resilience therefore becomes a foundational concern: it is what lets information systems anticipate, absorb, adapt and recover in ways that support continuity, trust and equitable outcomes when disruption is the norm rather than the exception.

Thirty-nine papers were submitted. Each was read by two independent reviewers through a double-blind process, and the Program Chairs curated the final program from those reviews. Twelve full papers are presented in four sessions, ten short papers run as ignite presentations, and five posters are discussed over lunch on the second day. Every full paper has three discussants who have read it closely.

ISF is a developmental workshop. The papers here are works in progress, and the discussion matters more than the presentation. Previous workshops have been judged successes because they combined thought-provoking argument with a genuinely social program, and because they built a reputation for helpful, constructive support for new ideas. Many papers workshopped at ISF have gone on to be published in highly regarded journals. We ask you to read the papers before you arrive, and to argue well.

We thank our keynote speakers, our panellists, the Program Committee, the discussants and session chairs, and the Organising Chairs whose work made this possible.

Ida Asadi Someh, Sigi Goode and Dirk Hovorka

Program Chairs, ISF 2026

Brisbane, 29 October 2026

Organisation

PROGRAM CHAIRS



Ida Asadi Someh
The University of Queensland



Sigi Goode
The Australian National University



Dirk Hovorka
The University of Sydney

ORGANISING CHAIRS



Avijit Sengupta
The University of Queensland



Maylis Saigot
The University of Queensland

Program Committee

Joao Baptista	Lancaster University
Hind Benbya	Western Sydney University
Andrea Carugati	Copenhagen Business School
Kevin Desouza	Queensland University of Technology
Erwin Fielt	Queensland University of Technology
Boh Wai Fong	Nanyang Technological University
Ahmed Imran	University of Canberra
Marta Indulska	The University of Queensland
Atreyi Kankanhalli	National University of Singapore
Stan Karanasios	The University of Queensland
Julia Kotlarsky	The University of Auckland Business School
Yangting Li	London School of Economics and Political Science
Patrick Mikalef	Norwegian University of Science and Technology
Humza Naseer	Deakin University
Ilan Oshri	The University of Auckland Business School
Jan Recker	University of Hamburg
Kai Riemer	The University of Sydney
Alex Richardson	The Australian National University
Tapani Rinta-Kahila	Hanken School of Economics and The University of Queensland
Michael Rosemann	Queensland University of Technology
Ruonan Sun	Monash University
Mary Tate	Victoria University of Wellington
Olgerta Tona	University of Gothenburg
Ofir Turel	The University of Melbourne
Lauren Waardenburg	ESSEC Business School
Shaoxin (Alina) Wang	The University of Sydney

About

THE ARC TRAINING CENTRE FOR INFORMATION RESILIENCE

CIRES builds Australian workforce capacity for responsible, secure and agile value creation from data. Its work centres on creating and maintaining data pipelines capable of detecting and responding to failures and risks across the information value chain, through five research themes: agility in value creation from data, data curation at scale, algorithmic transparency, trusted data partnerships, and responsible use of data assets. The Centre works across health, law enforcement, digital transformation, insurance and education, and trains higher degree researchers, postdoctoral fellows and data engineers on real problems inside industry projects. Established in July 2021, it is led from The University of Queensland with Swinburne University of Technology, and runs until July 2027.

This Centre is funded by the Australian Government through the Australian Research Council Industrial Transformation Research Program in partnership with The University of Queensland and Swinburne University of Technology.

Australian Government
Australian Research Council

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AUSTRALIA

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THE UNIVERSITY OF SYDNEY

Australian National University

THE INFORMATION SYSTEMS FOUNDATIONS WORKSHOP

ISF concentrates on the theoretical foundations of the discipline of information systems. High quality papers that have not been previously published are solicited for each workshop, and submissions undergo double-blind review with at least two independent reviewers per paper. The workshop invites completed papers of up to ten pages and research-in-progress papers of up to six, and as a developmental workshop particularly welcomes important ongoing research and emerging theoretical ideas.

The 2026 workshop is hosted in conjunction with the ARC Training Centre for Information Resilience and the Business Information Systems discipline at the UQ Business School, and organised with the National Centre for Information Systems Research at the Australian National University.

The Centre for Information Resilience acknowledges the Traditional Owners and their custodianship of the lands on which The University of Queensland and Swinburne University of Technology operate. We pay our respects to their Ancestors and their descendants, who continue cultural and spiritual connections to Country. We recognise their valuable contributions to Australian and global society.

Program Monday 2 November

08:30 Registration, coffee and chat

08:45 Welcome and Acknowledgement of Country

09:00 **The Nature of Theory, Twenty Years On**

A dialogue with Professor Emerita Shirley Gregor, The Australian National University

A short reflection on 'The Nature of Theory in Information Systems' (*MIS Quarterly*, 2006) twenty years after it appeared, then conversation and questions from the room. Moderated by Professor Sigi Goode, The Australian National University.

09:40 Morning tea

10:00 **Theorising machines and organising**

Full Paper Session 1 (30 minutes per paper)

Twelve minutes presentation, eight minutes from the discussants, eight minutes open discussion, two minutes author response.

7 Beyond the Black Box: Toward an Interpretivism of Machine Organising — Julian Prester, The University of Sydney

4 When algorithms manage humans: How Uber customers experience agency — Sanduni Senaratne, Erwin Fielt and Marek Kowalkiewicz, Queensland University of Technology

29 Resilience and Digital Transformation: A Tale of applying Entity- and Flow-oriented Thinking — Ralf Plattfaut and Karlheinz Kautz, University of Duisburg-Essen and RMIT University

11:30 **Judgement and AI in high-stakes work**

Ignite Session 1 (three minutes per paper)

Five rapid presentations back to back, then the session discussant leads ten minutes across the whole set, opening to the floor for the last five or six minutes.

17 Understanding Evaluative Convergence and Divergence in Human-AI Creative Work — Yanpei Lin, Avijit Sengupta, Yuan Fang and Bikesh Raj Upreti, Stockholm School of Economics and The University of Queensland

19 Understanding the Influence of System-level Curation Disclosure on the Cognition and Belief in Social Media False News — Jie Sen Lin, Lemuria Carter and Malshika Dias, The University of Sydney

24 A Theory-driven LLM Agentic Framework for Emergency Department Triage Decision Support — Iman Izzati Mohamad Firdaus, Hetiao Xie, Morteza Namvar, Rebekah Eden and Saeed Akhlaghpour, The University of Queensland

36 Dynamic Data Capabilities for Emergency and Disaster Management: Evidence from the Australian Public Sector — Olga Vasilyeva, Patrick J. N. L'Espoir Decosta and Alex Richardson, The Australian National University

9 Maintaining Technological Frame Congruency Through Accommodations and Compromises — Claire Cunningham, Anna Jenkins and Sam MacAulay, The University of Queensland

11:55 Lunch

12:55 **The Runtime Economy: Designing for Generative Capacity**

Keynote · Professor Youngjin Yoo, London School of Economics

Generative AI changes how value is created at the moment of use, when models, data, tools and human knowledge come together in a particular situation. Endogenous utility, generative externalities and generative capabilities explain how successive interactions can expand what people and organisations can do. Architecture shapes who controls these resources and retains the learning they generate.

13:55 **AI and the reshaping of work**

Full Paper Session 2 (30 minutes per paper)

Twelve minutes presentation, eight minutes from the discussants, eight minutes open discussion, two minutes author response.

23 Technology-Enabled Liminality: Generative AI and Occupational Transitions — Jorge Retamales-Moreno, The University of Queensland

27 Skill Erosion and Identity Shifts under AI Delegation in Imaging-based Medicine — Thitaree Tanprasert, Tim Miller and Tapani Rinta-Kahila, The University of Queensland

18 A capability-based model of relational expertise in human–AI embedded work — Leyla Yacine, Hanken School of Economics

15:25 Afternoon tea

15:45 **Provocation and debate**

Is generative AI a foundational change for IS research? · moderated by Professor Dirk Hovorka, The University of Sydney

Martin Chesbrough demonstrates a generative AI research workflow covering literature search, knowledge synthesis and the coding of papers and interview transcripts. The panel then takes up three questions: in what way, if at all, this represents a change in the epistemic foundations of IS research; what evidence would be needed to sustain the claim that it does; and what the implications would be for IS phenomena and for IS scholars. The aim is not to settle whether such tools should be used, but to expose the commitments to knowledge that researchers assume when they do — and to do so as genuine disagreement rather than consensus.

Panel —Professor Kai Riemer, The University of Sydney · Professor Jörgen Sandberg, The University of Queensland · Professor Youngjin Yoo, London School of Economics · Professor Michael Davern, The University of Melbourne

17:15 Walk to GOMA

18:00 **Game Night at the Gallery of Modern Art**

Long Gallery, QAGOMA · two-course dinner and the IRIS games

The workshop dinner, in the Long Gallery at GOMA. Our Nordic colleagues bring the IRIS games, the Scandinavian tradition of the Information Systems Research Seminar, which run through the evening alongside dinner. The night closes with the scavenger hunt prize and the handover to next year's game host.

Tuesday 3 November

09:00 — **Information resilience**

Professor Shazia Sadiq, Director, ARC Training Centre for Information Resilience

Fifteen minutes opening the second day on information resilience: what the Centre means by it, and the question this workshop is built around.

09:15 — **Keynote**

Professor Dirk Hovorka, The University of Sydney

Title to be announced.

10:15 — Morning tea · posters go up

10:35 — **Governance, fairness and the sociotechnical frame**

Full Paper Session 3 (30 minutes per paper)

Twelve minutes presentation, eight minutes from the discussants, eight minutes open discussion, two minutes author response.

- 35 When IT Holds Decision Rights: A Configurational Theory of Governance Fit for AI Agents — Navya, Saeed Akhlaghpour and Sanjay Dhir, The University of Queensland and IIT Delhi
- 14 A Lifecycle Framework of AI Fairness and Research Agenda in Information Systems — Manju Ahuja, Jiajun Wang, Carmen Leong and Kevin Kuan, UNSW Sydney
- 39 Sociotechnical Dualism Considered Harmful — Rodney J. Clarke, University of Wollongong

12:05 — **Governing data, infrastructure and digital development**

Ignite Session 2 (three minutes per paper)

Five rapid presentations back to back, then the session discussant leads ten minutes across the whole set, opening to the floor for the last five or six minutes.

- 1 Governing Securitized Digital Innovation Ecosystems with Dual-Use Steering Logic — Satu Vasamo-Koskinen and Tapani Rinta-Kahila, Prime Minister's Office, Finland, and Hanken School of Economics
- 26 Metadata-Supported Data Quality Evaluation in Data Repurposing: An Information Resilience Perspective — Hui Zhou, Tianwa Chen, Gianluca Demartini, Marta Indulska and Shazia Sadiq, The University of Queensland and University of the Sunshine Coast
- 25 From Know-How to See-How: Cognitive Out-Dwelling in AI-Assisted Development — John Williams, The University of Queensland
- 37 Conceptual Convergence in Global Digital Governance: An Analysis of Principles and Themes Across Seventeen Frameworks — Theresa Blissing, Shirley Gregor and Michael Rosemann, Queensland University of Technology and The Australian National University
- 31 Digital Sustainability At the Crossroads: Configuring Indigenous Knowledge and ICT in Smallholder Aquaculture — Muhammad Izharuddin, Christoph Breidbach and Tapani Rinta-Kahila, The University of Queensland

12:30 — Lunch and poster session · authors at their boards

13:45 — **Platforms, products and resilience**

Full Paper Session 4 (30 minutes per paper)

Twelve minutes presentation, eight minutes from the discussants, eight minutes open discussion, two minutes author response.

- 34 Platformization as adaptive cycles: An ecological perspective — Karolina Mikołajewska-Zając and Attila Márton, Copenhagen Business School
- 16 How Modular Data Products Emerge: A Configurational Analysis of Analytics Projects — Martin Chesbrough, Sean Maynard, Michael Davern and Humza Naseer, The University of Melbourne and Deakin University
- 8 Cyber Resilience: A Dyadic Relationship between SaaS Providers and Customers — Michael Lane, Sanjib Tiwari and Mehmet Zahid Ercan, University of Southern Queensland

15:15 — Afternoon tea · posters

15:35 — **Do our theories fit AI in practice?**

Moderated by Professor Stan Karanasios, The University of Queensland

Ryan van Leent, Vice President, Global Public Services at SAP, presents a real-world agentic AI use case, offering a window into how AI is being adopted and used in organisations today. This is followed by a discussion of how the case might be theorised: which existing concepts help explain it, where new theorising may be needed, and how IS theory can contribute to practice and practice can inform IS theory. Doctoral and early career researchers are drawn in first, and roundtable discussion follows.

Panellists —Professor Christine Legner, University of Lausanne · Ryan van Leent, Vice President, Global Public Services, SAP

Moderator —Stan Karanasios is Professor of Information Systems at the University of Queensland Business School. His research examines digital transformation and AI in organisations, digital policy development, and the social implications of technology. He has published in leading journals, including *MIS Quarterly*, *Information Systems Research*, and the *Journal of the Association for Information Systems*.

17:05 — Close

Posters

Up on Tuesday morning. The poster session is lunch on Tuesday, 12:30 to 13:45, with authors at their boards.

3 Why Do Digital Technology Waves Disrupt Some Business Models and Not Others? — Erwin Fielt, Queensland University of Technology

12 A Viable Systems Model Perspective on Organisations Surviving to Thrive in the Age of AI — Nova Sepadyati, The University of Queensland

21 Data Storytelling Capability for Collaborative Decision-Making in Cybersecurity Incident Response — Jia Xu and Hanh Nguyen, Deakin University

38 AI and the Nordic Way of Life — Charlotta Kronblad and Olgerta Tona, University of Gothenburg

Breakout room 217, Heritage Creative Suite, is available across both days for individual meetings as required.

Program as at 29 October 2026 and subject to change.

Enquiries: **infsys-foundations@business.uq.edu.au**