3rd International Conference on Digital Sovereignty (ICDS) – 2026: Conference Program
(26.11.2026 and 27.11.2026)

Date/Time: 26th November 2026, 08:00 AM – 17:00 PM (Oslo Time/CET).

Venue: Oslo Science Park (Forskningsparken), Gaustadalléen 21, 0349 Oslo, Norway.

Time	Title/Description
Session 1. Introduction **Session Chair:** Sanjay Misra (IFE)	
08:00 h – 08:10 h	**Opening and Welcome:** Sanjay Misra (IFE)
08:10 h – 08:15 h	**Conference Introduction and Announcements:** Petter Kvalvik (IFE)
08:15 h – 08:45 h	**Invited Talk: Prof Lothar Fritsch, Oslomet, Norway** **Title of talk: Sovereignty aspects of data privacy and digital identity**
08:45 h – 09:00 h	Coffee Break
Session 2A. Human-Centric Digital Sovereignty (Paper Presentations) **Session Chair: Vasileios Gkioulos, Norwegian University of Science and Technology, Gjovik, Norway**	
09:00 h – 09:15 h	From Principles to Practice: How Trustworthy AI is Interpreted and Operationalised in Legal Work Involving Large Language Models (5) **Lise Sporsheim Gundersen, Sule Yildirim Yayilgan and Ehtesham Hashmi**
09:15 h – 09:30 h	roadAR: It Worked, and That Was the Problem: Technical Sovereignty Without Embodied Agency in AI-Assisted AR Micromobility (29) **Attila Bekkvik Szentirmai**
09:30 h – 09:45 h	Toward Linguistic and Technological Sovereignty in Low-Resource Disaster Communication: Retrieval-Augmented English–Chinese–Lao Translation (37) **Jitao Yang**
09:45 h – 10:00 h	Human-Centric Digital Sovereignty Through Assistive Technology: A Universally Designed AR Wheelchair Reverse-Camera System (38) **Attila Bekkvik Szentirmai**
10:00 h – 10:15 h	Beyond Compliance and Literacy: A Conceptual Model of Sovereignty Capacity in AI-Enabled Higher Education (47) **Andreas Schneider**
10:15 h – 10:30 h	Functional Digital Sovereignty in Human–AI Configurations: From Technical Control to Institutional Authority (52) **Valeriu Ungureanu**
10:30 h – 10:45 h	Can We Trust the Metadata? Verifiable Metadata as a Condition for Data Sovereignty in Federated Catalogs (8) **Daniel Tebernum, Michael Steinert and Marcel Altendeitering**
10:45 h – 11:00 h	The Odyssey of European Digital Sovereignty and a Knowledge Base to Orient Newcomers (75) **Stefano Berlato, Livia Marini, Giovanni Corti and Silvio Ranise**

11:00 – 11:15	Coffee Break
Session 2B. Human-Centric Digital Sovereignty (Paper Presentations) **Session Chair: Ewaryst Tkacz, Academy of Silesia, Poland**	
11:15 h – 11:30 h	A Sovereignty-Aware Personalized Nutrition Decision-Support System Integrating Polygenic Risk Scores and Nutrigenetic Evidence (54) **Jitao Yang**
11:30 h – 11:45 h	AI Does Not Need to Be Smart to End the World: Rethinking Human-Centric Digital Sovereignty Through Capability, Authority, and Actuation (56) **Attila Bekkvik Szentirmai**
11:45 h – 12:00 h	Beyond De-identification: Uniqueness and Attribute Inference Risks in Lifestyle Data for Digital Sovereignty (74) **Joanna Chwał, Radosław Dzik, Bartosz Lewandowski and Ewaryst Tkacz**
12:00 h – 12:15 h	Designing Incentives for Smart Home Data Sharing (9) **Annika Hesse, Malina Klueß, Anna Maria Schleimer and Mario Di Benedetto**
12:15 h – 12:30 h	Who Holds the Reins? Sovereign Control in LLM-Integrated Applications Under Prompt Injection (94) **Eirik Nyberget, Aida Akbarzadeh, Vyron Kampourakis and Vasileios Gkioulos**
12:30 h – 13:30 h	**Lunch Break**
Session 3. Industry and Innovation Impact (Paper Presentations) **Session Chair: Shang Gao, Örebro University, Sweden**	
13:30 h – 13:45 h	An Integrated Socio Technical Governance Framework for Semiconductor Digital Sovereignty in A Global Resilience Ecosystem (65) **Stewart Kowalski and Henrik Melkild**
13:45 h – 14:00 h	Water Tower Defense: A Serious Game for Supporting Frontline Autonomy Against Hybrid Threats in Small Water Utilities (31) **Lauri Anttila**
14:00 h – 14:15 h	Digitally Sovereign Scientific AI: Physics-Informed Graph Learning and Bayesian Transport Analysis in 3D Porous Media (43) **Liyanapathiranage Sudeepika Wajirakumari Samarathunga and Charith Atapattu**
14:15 h – 14:30 h	Digital Sovereignty as a Quality Attribute for Software Architectures (49) **Jukka Ruohonen, Justin Stark, Scott Wilkie and Mikkel Baun Kjærgaard**
14:30 h – 14:45 h	ByggChat: Towards an LLM-Supported Data Space for the Norwegian Building Industry (71) **Bernt A. Bremdal, Bård Kroghus and Iliana Ilieva**

14:45 h – 14:00 h	From Policy to Practice: An Interpretive Study of Digital Sovereignty and Resilience in Sweden's Swish payment (87) **Khando Khando and Shang Gao**
15:00 h – 15:15 h	**Networking / Coffee Break**
Session 4. National Digital Sovereignty (Physical) and Online Session (Paper Presentations) **Session Chair:** Sabarathinam Chockalingam (IFE)	
15:15 h – 15:27 h	Digital Sovereignty in Opposite Directions: Case of Starlink in Ukraine and Iran. (78) **Srijoni Bhattacharjee and Anu Masso**
15:27 h – 15:39 h	Exploring EU's strategic priorities for Digital Sovereignty (93) **Siraj Anand, Bart Nieuwenhuis and Abhishta Abhishta**
15:39 h – 15:51 h	Pricing the Exit: A Naive Cost Estimate for Norway's Digital Sovereignty Transition (42) **Nurul Momen, Nuno Marques and Lothar Fritsch**
15:51 h – 16:03 h	Sovereign but Unaccountable? Contribution Evaluation in Decentralized Federated Learning (64) **Nahom Gebrelul and Nurul Momen**
16:03 h – 16:15 h	NDSTA: A Technical Architecture for Measuring National Digital Sovereignty through AI-Driven Autonomy, Resilience, and Independence Indices (17) **Sashidhar Chinthala**
16:15 h – 16:27 h	Building the AI-Ready Financial Institution: Digital Sovereignty, Data Governance, Secure Infrastructure, Responsible AI Capabilities and Organisational Readiness for Enterprise AI Adoption (19) **Ifetayo John Oluwafemi and Jesusetemi Oluwafemi**
16:27 h – 16:39 h	The Execution Interval as Missing Dimension of European Digital Sovereignty (27) **Hamza Aarab**
16:39 h – 16:51 h	Sovereignty Reference Architectures in the Cloud-Edge Continuum: A Critical Analysis of Interoperability, Portability, and Governance (83) **Callistus Tochukwu Ikwuazom, Sanjay Misra, Ogwueleka Francisca and Sabarathinam Chockalingam**
16:51 h – 17:03 h	Defining and Assessing Digital Sovereignty in National Digital Infrastructure: A Maturity-Based Framework with a South African Case Study (85) **Jabu Mtsweni, Mphahlela Thaba and Joe Khosa**

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Date/Time: 27th November 2026, 07:30 AM – 13:30 PM (Oslo Time/CET).

Venue: Oslo Science Park (Forskningsparken), Gaustadalléen 21, 0349 Oslo, Norway.

Time	Title/Description
Session 5. Digital Ecosystems and Governance **Session Chair: Abdulrahman Kanaa, Research Institutes of Sweden, Sweden**	
07:30 h – 07:45 h	Deploying Sovereign Mobility Data Spaces: Governance, Interoperability and Trust Challenges in the Stockholm Low-Emission Zone Use Case (11) **Abdulrahman Kanaa**
07:45 h – 08:00 h	Trustworthy Claims and Credentials across Data Spaces: Towards a Trust Framework Management Model for Data Sovereignty (35) **Harrie Bastiaansen, Bernadette Loscio, Alexander van den Wall Bake, Matthijs Punter and Sebastian Pretzsch**
08:00 h – 08:15 h	Towards a Data Sovereignty-Oriented Reference Architecture for Smart Home Data Spaces (36) **Daria Koretskaia and Anna Maria Schleimer**
08:15 h – 08:30 h	Beyond Consent: Sovereign Interoperability in Latin American Open Finance (51) **Carluys Suescum Coelho and Car-Emyr Suescum Coelho**
08:30 h – 08:45 h	Governance and Sovereign Disclosure in a Triple-Layer Right-to-Be-Forgotten Framework for Tokenized Assets (61) **Pierre Ghaly, Harald Gjermundrod and Ioanna Dionysiou**
08:45 h – 09:00 h	Sovereign by Design: Resilient Distributed 5G Core Networks with Address-Preserving Mobility Across Autonomous Sites (108) Bilal Ghani, Amine Fassihi and Hakima Chaouchi
09:00 h – 09:15 h	Balancing Digital Sovereignty and Competition Law: Risks and Practical Compliance for Dataspace Operators (70) **Lukas von der Heide and Volker Berkhout**
09:15 h – 09:30 h	**Coffee Break**
Session 6. National Digital Sovereignty and Societal Impact (Paper Presentations) **Session Chair: Halvdan Haugsbakken, Ostfold University of Applied Science, Norway**	
09:30 h – 09:45 h	A Framework for Calibrating Digital Sovereignty at the Organizational Level (13) **Mohsen Anvaari**
09:45 h – 10:00 h	A New-Institutional Logic Perspective on Organizing Digital Sovereignty: An analysis of the Public Consultation on the Proposed Norwegian AI Act (30) **Halvdan Haugsbakken**

10:00 h – 10:15 h	Measuring Digital Sovereignty: A Taxonomy of Assessment Frameworks (33) **Sofie Schönborn**
10:15 h – 10:30 h	Sovereignty by Procurement: Governing Strategic Software Dependence (55) **Aapo Koski and Tommi Mikkonen**
10:30 h – 10:45 h	Operating AI Services under Sovereignty Requirements: An Infrastructure Case Study (97) **Trond Vatten**
10:45 h – 11:00 h	Sovereign Selection of Privacy Patterns: A RAG-Based Governance Approach (2) **Andreas Schneider, Lukas Waidelich, Thomas Schuster and Mario Boßlau**
11:00 h – 11:10 h	**Coffee Break**
Session 7. Geopolitics and Trust (Paper Presentations) **Session Chair: Raymond Hagen, Norwegian Digitalisation Agency, Norway**	
11:10 h – 11:25 h	“Know Your Enemy”: Building Citizen Resilience Against Information Disorders to Protect Digital Sovereignty (16) **Claudia Wege, Joshua Bronson and Thanh Bui**
11:25 h – 11:40 h	Beyond Control: A Public-Interest Framework for European Digital Sovereignty (40) **Sofie Schönborn**
11:40 h – 11:55 h	Digital Sovereignty for Rule-Takers: An Autonomy-Based Test Applied to Norway and the EEA (60) **Behrang Kianzad**
11:55 h – 12:10 h	Threat Modeling and Empirical Security Analysis of a BLE-Enabled Insulin Pump: A Digital Sovereignty Perspective (81) **Birgitte Jordal, Julia Kucharska, Arvind Sharma, Selma Henanger Jenker and Emilie Øynes Jørstad**
12:10 h – 12:25 h	Operationalizing an Enterprise Data Mesh with Data Space Capabilities: A Multivocal Review and Conceptual Reference Architecture (10) **Wilhelm Rosinski and Sebastian Pretzsch**
12:25 h – 12:40 h	Exit to What? Mapping the Complexity of Digital Sovereignty (90) **Raymond Hagen**
12:40 h – 12:45 h	**Closing: Announcements and Feedback**
12:45 h – 13:15 h	**Lunch and Networking / Start City and Fjord Tour**