SecUre aNd Resilient digItal tranSformation of healthcarE (SUNRISE) Date: 25 November, 2024

09:00-09:10	Opening Session Location: Søndre Allmenning 1	9:00 Workshop opening by Sandeep Pirbhulal and Habtamu Abie
09:10-09:50	Invited Keynote Location: Søndre Allmenning 1	9:10 Ankur Shukla Al for Healthcare Security: The Intersection of Innovation and Resilience
09:50-10:30	Session one Resilience and Dynamic Risk Assessment in Healthcare Location: Søndre Allmenning 1	9:50 Sandeep Pirbhulal An Architecture of Adaptive Cognitive Digital Twins for Resilient Healthcare Infrastructures and Services 10:10 Sabarathinam Chockalingam Safety and Security Risk Assessment in Healthcare and Critical Infrastructures
10:40-11:20	Invited Keynote Location: Søndre Allmenning 1	10:40 Invited keynote
11:20-12:20	Session two Cybersecurity Adaptive and Continuous Authentication in Healthcare Location: Søndre Allmenning 1	11:20 Ali Hassan Sodhro 5G Care: Adaptive Authentication Approach for 5G enabled Remote Healthcare Infrastructures 11:40 Ahmed Fraz Baig A Secure Privacy-Preserving Multimodal Continuous Authentication Protocol for Healthcare Systems 12:00 Sanjay Misra Cyber Security in Healthcare Systems: A Review of Tools and Attack Mitigation Techniques
12:30-13:20		Lunch
13:20-14:20	Session three Panel discussion Location: Søndre Allmenning 1	13:20 Panel Discussion on Autonomy, Resilience, Mental Models, Cybersecurity for Children's Wellbeing Panelists: Kai Rannenberg (GUF), Jun Zhao (Oxford University), Karen Renaud (University of Strathclyde), Suzanne Prior (Abertay University), Farzana Quayyum (NTNU)
14:20-15:20	Session four Supporting Projects Results Presentations Location: Søndre Allmenning 1	14:20 Sandeep Pirbhulal CybAlliance (International Alliance for Strengthening Cybersecurity and Privacy in Healthcare) Sokratis Katsikas/ Vasileios Gkioulos/Habtamu Abie SFI NORCICS (Norwegian Center for Cybersecurity in Critical Sectors) Emilia Gugliandolo/Habtamu Abie EU-CIP (European Knowledge Hub and Policy Testbed for Critical Infrastructure Protection)
15:20-15:30		SUNRISE workshop Closing session

Integrating sustainability and digitalization in teaching and learning

14:00-14:45	Intro Location: Storsalen	14:00 Birgit Rognebakke Krogstie Sustainability in IT education: Overview of pedagogical trends.
14:45-15:30	Discussion Location: Storsalen	14:45 What's new? Exchange of experience on current pedagogical practices Open for all participants
15:30-15:45		Break
15:45-16:30	Presentation Location: Storsalen	15:45 John Krogstie Sustainability reporting: From an auditing concern to an IT concern
	Discussion Location: Storsalen	16:30 Discussion and suggestions for joint activities
	End of workshop	

UDIT - Norwegian Conference for Education and Didactics in IT subjects Date: 26 November, 2024

09:15-10:15	UDIT Keynote	9:15 Keynote speaker: Juho Leinonen
10:15-10:30	Location: Storsalen	Generative AI in Computing Education: A Transformative Tool or a Troubling Trend? Break
10:30-12:00	UDIT 1: Ymse tema Location: Storsalen	10:30 Tengel Sandtrø Verdien av et tverrfaglig semester, slik studentene ser det 11:00 Anna Szlavi, Hanne Sofie Haugland and Letizia Jaccheri Role Models as an Intervention for Gender Diversity in Computing Education 11:30 Kateryna Osadcha, Justyna Szynkiewicz and Mohd Sameen Chishti Using Microsoft Copilot Chat in the Work of IT Educators: Pilot Study
12:00-13:00		Lunch
13:00-14:00	NIK Keynote Location: Storsalen	13:00 Keynote speaker: Øystein Haugen Modeling – now more than ever?
14:00-14:15		Break
14:15-17:00	UDIT 2A Peer collaboration and peer review Location: Storsalen	 14:15 Omid Mirmotahari and Yngvar Berg Trenger vi læringsassistenter? Hvordan kan hverandre-vurdering og/eller egen-vurdering gi god læringsutbytte. 14:45 Terje Idland, Rolando Gonzalez and Øyvind Aas Applying Liljedahl's Thinking Classrooms in a Higher Education Digital Technology Course 15:15 Oline Sæverud Aksnes, Andreas Brandsæter, Elise Indregård Petersen and Hans Georg Schaathun Programmeringsparadokset etter Sfard og Leron 15:45 Somayeh Bayat Esfandani and Trond Aalberg Students' perceptions toward essential functionalities and qualities of peer code assessment tools 16:15 Attiqa Rehman, Rune Hjelsvold and Leonardo Montecchi A Case Study on Student Perspective of Peer Code Review (PCR)
14:15-16:15	UDIT 2B Development of educational tools Location: Nordre Allmenning 3	 14:15 Oleks Shturmov and Michael Kirkedal Thomsen remarks - Machinery for Marking Student Work 14:45 Line Kolås, Robin Isfold Munkvold and Adam Palmquist Students as developers of educational tools - What educational challenges do they address and which learning approaches do they implement? 15:15 Joachim Kristensen, Ján Perháč, Michael Kirkedal Thomsen, Lars Tveito, Oleks Shturmov, Samuel Novotný and Sergej Chodarev OnlineProver: First Experience with Teaching Formal Proofs 15:45 Mohsen Toorani Improving Fairness and Quality in Master's Thesis Assessment in Norwegian Higher Education
19:00-21:30	Conference Dinner Location: Grand Terminus Street address: Zander Kaaes gate 6, 5015 Bergen	

UDIT - Norwegian Conference for Education and Didactics in IT subjects

00 00 10 00	NOKOBIT Keynote	9:00 Keynote speaker: Björn Þór Jónsson
09:00-10:00	Location: Storsalen	On The Importance of Database Techniques for Multimedia Applications
10:00-10:15		Break
	UDIT 3: Assessment Location: Storsalen	 10:15 Guttorm Sindre Rettferd i variantoppgåver med tilfeldig trekking 10:45 Øyvind Aas and Wasana Leithe Automated adaptive testing vs. linear testing in undergraduate mathematics 11:15 Hanne Sørum and Wanda Presthus Insights from the Perspective of Examiners on the Justification of Grades in Higher Education in Norway
12:00-13:00		Lunch
13:00-14:00	NISK Keynote Location: Storsalen	13:00 Keynote speaker: Per Thorsheim Why is academia so bad at selling their research, and why is private sector so afraid of cooperating with researchers?
14:00-14:15		Break
	UDIT 4 Syllabus and Conceptualisation Location: Storsalen	 14:15 Sondre Bolland, Andreas Haraldsrud, Siri Jensen, Filip Strömbäck, Arne Styve, Erlend Tøssebro, Eirik Valseth and Torstein Strømme The Nordic Prior Knowledge Test in Programming: Motivation, Development and Preliminary Results 14:45 Sondre Bolland, Aleksandr Popov, Tyra Eide, Robert Kordts and Torstein Strømme Fundamentals of Norwegian CS1 15:15 Leonardo Montecchi Shaping a Modern Programming Paradigms Course for Advanced University Students 15:45 Rolando Gonzalez, Trond Klevgaard and Kjetil Raaen Students' Visualisations of Programming Concepts: An Exploratory Analysis

NOKOBIT - Norwegian Conference for Organizations' Use of IT

09:15-10:15	UDIT Keynote	9:15 Keynote speaker: Juho Leinonen
09.15-10.15	Location: Storsalen	Generative AI in Computing Education: A Transformative Tool or a Troubling Trend?
10:15-10:30		Break
		10:30 Dorthea Mathilde Kristin Vatn and Patrick Mikalef
		Explainable AI (XAI) in a societal citizen perspective – power, conflicts, and ambiguity
	Session one	10:50 Israt Tabassum and Vimala Nunavath
	(Al Technologies and Societal Impact) Location: Søndre Allmenning 1	A Deep-Learning Based Approach for Multi-class Cyberbullying Classification Using Social Media Text and Image Data
10:30-12:00		11:10 Karianne Klovning, Hedda Haugland Svåsand and Kjersti Berg Danilova Kunstig intelligens og kreativitet
		11:30 Kjersti Berg Danilova and Astrid Klotz
		Managing responsible AI in organizations
		11:50 Magnus Ulvestad Paulsen and Jefferson Seide Molléri
		Algorithmic Profiling in the Workplace: Employee Perceptions and Technostress
12:00-13:00		Lunch
13:00-14:00	NIK Keynote	13:00 Keynote speaker: Øystein Haugen
13.00-14.00	Location: Storsalen	Modeling – now more than ever?
14:00-14:30		Break
	NIK meets BLDL	14:30 NIK meets Bergen Language Design Laboratory (BLDL): https://conf.researchr.org/home/bldl-15
14:30-18:00	Location: Auditorium Egget	The program includes a talk from Bjarne Stroustrup. Bjarne Stroutstrup is the designer and original implementor of C++
	Street address: Parkveien 1, 5007 Bergen	
	Io (p:	
	Conference Dinner	
19:00-21:30	Location: Grand Terminus	
	Street address:	
	Zander Kaaes gate 6, 5015 Bergen	

NOKOBIT - Norwegian Conference for Organizations' Use of IT

09:00-10:00	NOKOBIT Keynote	9:00 Keynote speaker: Björn Þór Jónsson
	Location: Storsalen	On The Importance of Database Techniques for Multimedia Applications
10:00-10:15		
		10:15 John Krogstie Using Techniques from Neuroscience in Information Systems Modelling Research: A Systematic Mapping Study
	Session two (Information Systems, Data Analytics, and Sustainability)	10:35 Mathias Oppedal Heggelund, Syed Sajid Hussain and Babak A. Farshchian Information overload – A case study of using an integrated electronic health record system in the emergency room
10:15-12:00	Location: Søndre Allmenning 1	10:55 Dimitra Chasanidou, Costas Boletsis and John Krogstie "It should last long without harming the environment": perspectives on sustainability in an environmental and historical project
		11:15 Bjørnar Tessem and Aida Ashrafi Collective Anomaly Detection in Fisheries
		11:35 Johannes Skivdal, Laurence Dierickx and Duc-Tien Dang-Nguyen VeriDash: An Al-Driven, User-Centric Open Source Dashboard for Enhancing Multimedia Verification
12:00-13:00		Lunch
13:00-14:00	NISK Keynote	13:00 Keynote speaker: Per Thorsheim
13.00-14.00	Location: Storsalen	Why is academia so bad at selling their research, and why is private sector so afraid of cooperating with researchers?
14:00-14:15		Break
14:15-16:00	Session three (Digital Transformation and Critical Operations) Location: Søndre Allmenning 1	14:15 Egil Øvrelid and Zhiyi Wang Restructuring Digital Infrastructures: Architectural Transformation through Sociotechnical Interplay in large-scale incumbent organizations 14:35 Kristine Steen-Tveit, Bjørn Erik Munkvold and Bente Skattør Enhancing Team Situational Awareness in Crime Scene Investigation through the Use of Head Cameras 14:55 Ivar Mykkeltvedt and Andreas L Opdahl How do Norwegian enterprises create awareness of cyber security? 15:15 Camille Sivelle, David Palma and Katrien De Moor Extended Reality in critical sectors: Exploring the use cases and challenges 16:35 Miriam Lande and Dag Håkon Olsen The pandemic and the digitalization of Norwegian enterprises

NISK - Norwegian Information Security Conference

09:15-10:15	UDIT Keynote	9:15 Keynote speaker: Juho Leinonen
09.15-10.15	Location: Storsalen	Generative AI in Computing Education: A Transformative Tool or a Troubling Trend?
10:15-10:30		Break
		10:30 Nikola Gavric, Guru Bhandari and Andrii Shalaginov
		Revisiting FlowGuard: A Critical Examination of the Edge-Based IoT DDoS Defense Mechanism
	Cassian three (Incident Decreas)	44.00 Vahinu Changaakayan and Martin Cilia laatun
10.00.10.00	Session three (Incident Response)	11:00 Vahiny Gnanasekaran and Martin Gilje Jaatun
10:30-12:00	Location: Nordre Allmenning 3	Security Architecture for Distribution System Operators: A Norwegian Perspective
		11:30 Noah Holmdin and Martin Gilje Jaatun
		Fuzz Testing of a Wireless Residential Gateway
		, ,
12:00-13:00		Lunch
13:00-14:00	NIK Keynote	13:00 Keynote speaker: Øystein Haugen
13.00-14.00	Location: Storsalen	Modeling – now more than ever?
14:00-14:15		Break
		14:15 Vegard Berge and Chunlei Li
		Enhanced Anomaly Detection in Industrial Control Systems aided by Machine Learning
	Session two	14:45 Rebeka Toth and Olga Limonova
14:15-17:00	(Impact of Emotions on User Behavior Toward Phishing Emails
	Location: Nordre Allmenning 3	
		15:15 Elias Brattli Sørensen
		Elevation of MLsec: a security card game for bringing threat modeling to machine learning practitioners

	Conference Dinner
19:00-21:30	Location: Grand Terminus
19.00-21.30	Street address:
	Zander Kaaes gate 6, 5015 Bergen

NISK - Norwegian Information Security Conference

09:00-10:00	NOKOBIT Keynote	9:00 Keynote speaker: Björn Þór Jónsson
03.00-10.00	Location: Storsalen	On The Importance of Database Techniques for Multimedia Applications
10:00-10:15	Break	
	Session three: Incident Response Location: Nordre Allmenning 3	 10:15 Vilja Steffensen and Vahiny Gnanasekaran Information Sharing between the Computer Security Incident Response Team and its Members: An Empirical Study 10:45 Raymond Hagen, Lasse Øverlier and Kirsi Helkala The Role of Custom Scripting in APT Incident Response 11:15 Odin Heitmann From Uncertainty to Prosecution: Enhancing Cyber Resilience through Forensic Readiness
12:00-13:00		Lunch
13:00-14:00	NISK Keynote Location: Storsalen	13:00 Keynote speaker: Per Thorsheim Why is academia so bad at selling their research, and why is private sector so afraid of cooperating with researchers?
14:00-14:15		Break
14:15-16:00	Session four: Security Design Location: Søndre Allmenning 2	 14:15 Sander Brekke and Patrick Bours Continuous Age Detection using Keystroke Dynamics 14:45 Slobodan Petrović Towards a Framework for the Design of Nonlinear Combiners in Ternary Logic 15:15 Surya Kahtyat Designing a Decentralized Identity Verification Platform 15:45 Abha Pokharel, Casandra Grundstrom and Surya Kathayat End-User Privacy, Security, and Data Ownership Concerns on the Helsenorge Platform: A Mixed-Methods Study

NIK - Norwegian Informatics Conference

09:15-10:15	UDIT Keynote	9:15 Keynote speaker: Juho Leinonen
09:10-10:15	Location: Storsalen	Generative AI in Computing Education: A Transformative Tool or a Troubling Trend?
10:15-10:30		Break
		10:30 Maïlys Hau, Henrik Kildahl, Federico Veronesi, Frank Lindseth, Bjørnar Grenne and Gabriel Kiss Automatic 3D Segmentation of Closed Mitral Valve Leaflets on Transesophageal Echocardiogram
10.20 10.00	Session one (Medical Al Applications)	11:00 Shanmugapriya Survarachakan, Michael Staff Larsen, Rahul Prasanna Kumar and Frank Lindseth
10:30-12:00	Location: Søndre Allmenning 2	Automatic Segmentation of Hepatic and Portal Veins using SwinUNETR and Multi-Task Learning
		11:30 Jarl Sondre Sæther, Bendik Holter, Frank Lindseth and Gabriel Kiss
		Enhancing Cell Detection with Transformer-Based Architectures in Multi-Level Magnification
		Classification for Computational Pathology
12:00-13:00		Lunch
13:00-14:00	NIK Keynote	13:00 Keynote speaker: Øystein Haugen
13.00-14.00	Location: Storsalen	Modeling – now more than ever?
14:00-14:30		Break
	NIK meets BLDL	14:30 NIK meets Bergen Language Design Laboratory (BLDL): https://conf.researchr.org/home/bldl-15
14:30-18:00	Location: Auditorium Egget	The program includes a talk from Bjarne Stroustrup.
	Street address: Parkveien 1, 5007 Bergen	Bjarne Stroutstrup is the designer and original implementor of C++
	Conference Dinner	
19:00-21:30	Location: Grand Terminus	
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NIK - Norwegian Informatics Conference

09:00-10:00	NOKOBIT Keynote	9:00 Keynote speaker: Björn Þór Jónsson
09:00-10:00	Location: Storsalen	On The Importance of Database Techniques for Multimedia Applications
10:00-10:15		Break
		10:15 Aleksander Pedersen, Tanita Fossli Brustad, Mona Lahm Høgbakk and Silje C. Wangberg
		Augmented reality projections as a tool to enrich simulations in health care education:
		Combining AR projector technology with manikins
	Session three	10:45 Joachim Andreassen and Donn Morrison
10:15-12:00	(Software Applications) Location: Søndre Allmenning 2	Discovery of endianness and instruction size characteristics in binary programs from unknown instruction set architectures
		11:15 Jungwon Seo, Ferhat Ozgur Catak and Chunming Rong
		Understanding Federated Learning from IID to Non-IID dataset: An Experimental Study
		11:45 Miriam Kopperstad Wolff, Sam Royston, Anders Lyngvi Fougner, Hans Georg Schaathun, Martin Steinert and Rune Volden
		GluPredKit: Development and User Evaluation of a Standardization Software for Blood Glucose Prediction
12:00-13:00	Lunch	
13:00-14:00	NISK Keynote	13:00 Keynote speaker: Per Thorsheim
	Location: Storsalen	Why is academia so bad at selling their research, and why is private sector so afraid of cooperating with researchers?
14:00-14:15		
		14:15 Gloria Anne Babile Kasangu, Alain D. Starke, Anna Nilsen and Christoph Trattner
		Picture This: How Image Filters Affect Trust in Online News
	Session four (Al and media)	14:45 Bilal Mahmood, Mehdi Elahi, Lubos Steskal and Samia Touileb
14:15-16:00	Location: Nordre Allmenning 3	Can Large Language Models Support Editors Pick Related News Articles?
14:15-16:00		15:15 Khadiga Seddik
		Exploring the Ethical Challenges of AI and Recommender Systems in the Democratic Public Sphere
		15:45 Balazs Mosolygo, Bahareh Fatemi, Fazle Rabbi and Andreas Opdahl
		10.40 Bata25 1 1030ty 60, Banaren 1 atem, 1 azte habbi ana mareas opaant