

SOPHIA

SPRINGBOARD FOR ARTIFICIAL INTELLIGENCE

EDITION 2023

*International AI forum for exchanges
between AI academic and private research players*

FINAL PROGRAM

22 > 24 NOVEMBER 2023

 SOPHIA ANTIPOLIS
[French Riviera]

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22-24 NOVEMBER
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DAILY PROGRAM EDITION 2023

DAY 1

I

WEDNESDAY, NOV 22

09:20 - 09:25	OPENING Chair: Magali Chelpi - Den Hamer	Welcome	Magali Chelpi-den Hamer	SophiaMag	
09:25 - 09:35		Opening	C.A. Ginesy Jean-Pierre Mascarelli	Departement des Alpes Maritimes CASA/SYMISA	
09:35 - 09:40		Opening	Jeanick Brisswalter	Université Cote d'Azur	
09:40 - 10:15		Inaugural talk	Guillaume Avrin	Ministère de l'Economie	AI French National Strategy
10:15 - 10:50		Keynote speech	Claude Castelluccia	CNIL & Inria	AI Regulations: the CNIL perspectives
BREAK					
11:05 - 11:45	AI & HEALTH I Chair: Marco Lorenzi	Keynote speech	Tavpritesh Sethi	University New Delhi	Building Health Systems Preparedness with Generative AI and Heterogenous Biomedical Data
11:45 - 12:00		Contributed paper	Matteo Pentassuglia	EURECOM, AMK Biotech	Automatic denoising of high-dimensional tissue images to improve the cell segmentation
12:00 - 12:15		Contributed paper	Célia D'Cruz	Inria	Deep NLP model to support multidisciplinary consultation meetings - Application to colorectal cancer
LUNCH BREAK					
14:00 - 14:30	AI & HEALTH II Chair: Olivier Humbert	Keynote speech	Bjorn Menze	University Zurich	On vessels and networks
14:30 - 14:45		Contributed paper	Anna Lahtinen	Haaga-Helia University of Applied Sciences	Leveraging AI in Finland's Health and MedTech Sector: A focus on SMEs
14:45 - 15:00		Contributed paper	Benoit Huet	Median Technologies Sophia Antipolis	Enabling Lung Cancer Screening with iBiopsy® AI-based Software as Medical Device
15:00 - 15:40		Invited talk	David Gruson	Sciences Politiques Paris	AI in healthcare: dissemination of use cases and regulation by the Human Guarantee
BREAK					
16:00 - 16:40	AI & BIOLOGY Chair: Ellen Van Obberghen Schilling	Invited talk	Debarka Sengupta	University New Delhi	AI Driven Precision Oncology: Balancing Promises and Perils
16:40 - 17:10		Keynote speech	Thomas Walter	Institut Curie	Computer Vision for the analysis of RNA point clouds in cells and tissues
17:10 - 17:25		Contributed paper	Faisal Jayousi	Université Côte d'Azur	Geometric and Statistical Analysis of the Extracellular Matrix
17:25 - 17:40		Contributed paper	Emmanuel Bouilhol	Université de Bordeaux	SaliencyNet: an unsupervised Image-to-Image translation method for nuclei saliency enhancement in microscopy images





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DAY 2

THURSDAY, NOV 23

08:45 - 09:15	SMART TERRITORY, SECURITY & SAFETY Chair: Pierre Alliez	Invited talk	Gabriel Vincent	NVIDIA	Nvidia Omniverse Digital twin platform with Open USD & Generative AI	
09:15 - 09:30		Contributed paper	Pierre-Laurent Cristille	ACRI-ST	Data fusion of remote sensing observations for sustainable development	
09:30 - 09:45		Contributed paper	Noelia Abascal Zorrilla	Argans	Enhancing Landfill Detection through Multi-Spectral Satellite Imagery and Deep Learning Techniques	
BREAK						
10:10 - 10:50		Invited talk	Raphaelé Héno	IGN	Towards a France-wide Digital Twin	
10:50 - 11:05		Contributed paper	Amir-Hossein Tavakoli	Center for Applied Mathematics	Hybrid use of operations research and deep learning in the pump scheduling problem	
11:05 - 11:45	Keynote speech	Dao Huu Hung	FPT Software	Video Surveillance: From Deep Learning to Real-World Deployment		
11:45 - 12:00	AI, MANAGEMENT & ECONOMY	Contributed paper	Zakaria Babutsidze	SKEMA Business School, North Carolina State University	Who is likely to engage with bots on Twitter?	
-		Contributed paper	WITHDRAWN			
12:00 - 13:30	POSTER SESSION					
LUNCH BREAK						
13:30 - 14:10	AI, MANAGEMENT & ECONOMY Chair: Simone Vannuccini	Keynote speech	Claire Lelarge	University Paris Saclay	Unlocking Frontier Technologies in Firms: Organizational and Economic Perspectives	
14:10 - 14:25		Contributed paper	François Hantry	Amadeus	Ancillaries Dynamic Pricing: an AI approach	
14:25 - 14:40		Contributed paper	Anna Lahtinen	Haaga-Helia University of Applied Sciences	SMEs and AI: Triumphs, Tools and Tomorrow's Trends	
14:40 - 14:55		Contributed paper	Antoine Mouquet	ETSI	Standardization in support of AI and Management	
BREAK						
15:00 - 16:00	ROUND TABLE Facilitator: Sharon Goldman		Gianluigi Bagnoli Marc Charrier Florin Cremenescu Remy Pottier	SAP Labs Amadeus Accenture ARM	AI & Business Transformation	
BREAK						
16:15 - 16:45	SUSTAINABLE AI Chair: Olena Kushakovska	Keynote speech	Toshie Takahashi	Waseda University, Tokyo	Human-First and Sustainable AI: Lessons from two human-centered AI projects (UN and Moonshot)	
16:45 - 17:15		Invited talk	Bettina Laugwitz	SAP Labs	Trustworthy AI: How to make artificial intelligence understandable	
17:15 - 17:30		Contributed paper	Hongliu Cao	Amadeus	A cross-silo Federated Learning based framework to make the industrial AI product lifecycle more sustainable	
17:30 - 17:45		Contributed paper	Charlotte Rodrigez	Accenture Labs	Estimating the energy consumed by machine learning	
17:45 - 18:00		Contributed paper	Anna Lahtinen	Haaga-Helia University of Applied Sciences	Sustainable AI Integration: A New Era of Empowered Knowledge Workers and Collaborative Innovation with HEIs	
18:00 - 18:30		Keynote speech	Battista Biggio	University of Cagliari	AI Security Testing: Lessons Learned and Future Challenges	



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DAY 3

FRIDAY, NOV 24

09:00 - 09:40	AI FUNDAMENTALS Chair: Pierre-Alexandre Mattei	Keynote speech	Marco Gori	University of Pisa	Collection-less Artificial Intelligence
09:40 - 09:55		Contributed paper	Antoine Boulanger	Amadeus	Application of quantum computing in Revenue Management
09:55 - 10:10		Contributed paper	Nour Jamoussi, Alix Lhéritier	Amadeus Eurecom	Deep Decision-theoretic Anomaly Detection for Time Series
10:10 - 10:25		Contributed paper	Stéphane Bressan	National University of Singapore	From Neural Networks to Quantum Physics and Back
BREAK					
10:55 - 11:35	AI FUNDAMENTALS Chair: Pierre-Alexandre Mattei	Keynote speech	Imke Mayer	Owkin	Enhancing Data Privacy In External Control Arm Analysis
11:35 - 11:50		Contributed paper	François Hantry	Amadeus	Generative AI in Amadeus: The Engineering Perspective
11:50 - 12:05		Contributed paper	Sylvain Marty	One Point	RETROcode: Leveraging a Code Database for Improved Natural Language to Code Generation
12:05 - 12:20		Contributed paper	Aude Sportisse	Inria, Naval Group	SemiPy: a simple Semi-Supervised Learning Python Library
LUNCH BREAK					
12:20 - 14:10	POSTER SESSION	Room "THE COACHES"			
14:10 - 14:15	CLOSING CEREMONY Chair: Stephane Descombes	Azur Tech Winter	Florence Tressols	Telecom Valley	
14:15 - 15:00		Invited	Livio de Luca	CNRS	Towards cathedrals of digital data and multidisciplinary knowledge in heritage science
15:00 - 15:50		ROUND TABLE By Thibault Neveu (Actu IA)	Rodrigo Acuna Agost Ludovic Dibiaggio Khawla Mallat François-Regis Martin-Lauzer	Amadeus SKEMA SAP Labs ACRI-ST	AI ethics in industry, from theory to reality
15:50 - 15:55		Awards ceremony (poster)	Stéphane Descombes	Université Côte d'azur	
15:55 - 16:05		Awards ceremony (demo)	Stéphane Descombes	Université Côte d'azur	
16:05 - 16:15		SophIA Awards ceremony	Jean-Pierre Mascarelli	CASA - SYMISA	
16:15 - 16:55		Keynote speech	Mickaël Leclercq	Université Laval	
16:55 - 17:00		Concluding words	Organizing Committee	Université Côte d'Azur - CASA - Sophia Club Entreprises	

