SOPHIA

SPRINGBOARD FOR ARTIFICIAL INTELLIGENCE

EDITION 2022

23-25 NOVEMBER

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FINAL PROGRAM

DAY 1 | WEDNESDAY, NOV 23

09:15 - 09:20	OPENING Chairman Charles Bouveyron	WELCOME	CHARLES BOUVEYRON	UNIVERSITÉ COTE D'AZUR - DIRECTOR 3IA	
09:20 - 09:30		OPENING	C.A. GINESY J. LEONETTI	CONSEIL DÉPARTEMENTAL 06 C.A. SOPHIA ANTIPOLIS	
09:30 - 09:35		OPENING	JEANICK BRISSWALTER	UNIVERSITÉ COTE D'AZUR	
09:35 - 10:05		INAUGURAL TALK	LORENZO ROSASCO	UNIVERSITA DI GENOVA	
10:05 - 10:45		ROUND TABLE	ULYSSEUS	SEVILLE, HELSINKI, GENOVA, UCA	
BREAK					
11:05 - 11:45	AI & HEALTH I Chairman Marco Lorenzi	KEYNOTE SPEECH	DANIEL RUECKERT	IMPERIAL COLLEGE LONDON	
11:45 - 12:00		CONTRIBUTED PAPER	BAËTAN DESRUES	INRIA	3D ELECTROMECHANICAL MODELLING FOR CARDIAC RESYNCHRONISATION THERAPY PLANNING
12:00 - 12:15		CONTRIBUTED PAPER	JUSTINE LABORY	UNIVERSITÉ COTE D'AZUR - MSI	ABEILLE: A NOVEL METHOD FOR ABERRANT EXPRESSION IDENTIFICATION
12:15 - 12:30		CONTRIBUTED PAPER	SOFIA PATSALI	CNRS-GREDEG	ARTIFICIAL INTELLIGENCE TECHNOLOGIES AND FIRMS' INNOVATION: EVIDENCE FROM HOSPITAL SUPPLIERS
LUNCH BREAK					
14:00 - 14:30	AI & HEALTH II Chairman Olivier Humbert	INVITED TALK	WIRO NIESSEN	ERASMUS MC, UNIVERSITY OF ROTTERDAM	
14:30 - 14:45		CONTRIBUTED PAPER	MARIA ROMERO-TERNERO	UNIVERSITY OF SEVILLA	DATA COLLECTION METHODOLOGY FOR RESPONSIBLE ARTIFICIAL INTELLIGENCE IN HEALTH
14:45 - 15:00		CONTRIBUTED PAPER	ZAKARIA BABUTSIDZE	OFCE - SKEMA BUSINESS SCHOOL	PROSPECTS OF AI-AUGMENTED MEDICAL TREATMENT ACCEPTANCE
15:00 - 15:15		CONTRIBUTED PAPER	BENJAMIN MOLINET	INRIA	«WHY DO I HAVE CHICKENPOX?» TEMPLATE-BASED EXPLANATIONS FOR CORRECT AND INCORRECT DIAGNOSIS
15:15 - 15:45		INVITED TALK	MAXIME SERMESANT	INRIA	
BREAK					
16:05 - 16:50	AI & BIOLOGY Chair Ellen Van Obberghen Schilling	ROUND TABLE	OLIVIER HUMBERT	AI & RGPD, ETHICS, AND DATA SECURITY	
16:50 - 17:05		CONTRIBUTED PAPER	AURORE LOISY	UNIVERSITÉ MARSEILLE IRPHE	LEARNING TO ACT UNDER UNCERTAINTY: APPLICATION TO BIO-INSPIRED OLFACTORY SEARCH
17:05 - 17:20		CONTRIBUTED PAPER	DJAMPA KOZLOWSKI	UNIVERSITÉ COTE D'AUR - MSI	NERD : A TOOL TO PREDICT PROTEINS INVOLVED IN NEMATODES' PLANT PARASITISM
17:20 - 17:35		CONTRIBUTED PAPER	MATEJ HLADIS	UNIVERSITÉ COTE D'AUR	PREDICTING ODORANT-RECEPTOR ACTIVATION WITH PROTEIN LANGUAGE AND GRAPH NEURAL NETWORKS

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DAY 2 | THURSDAY, NOV 24

09:00 - 09:40	SMART TERRITORY, SECURITY & SAFETY Elena Di Bernardino Pierre Alliez	KEYNOTE SPEECH	EMMANUEL GOBET	ECOLE POLYTECHNIQUE	
09:40 - 09:55		CONTRIBUTED PAPER	MASSIMILIANO PRONESTI	AMADEUS	QUANTUM-BASED SENTIMENT ANALYSIS FOR THE TRAVEL INDUSTRY
09:55 - 10:25		INVITED TALK	IOANNIS BRILAKIS	UNIVERSITY OF CAMBRIDGE	
		BREAK			
10:55 - 11:10		CONTRIBUTED PAPER	ZIMING LIU	INRIA	A NEW DENSE HYBRID VISUAL ODOMETRY APPROACH WITH MULTI-MASKS
11:10 - 12:00		ROUND TABLE	PIERRE ALLIEZ	INRIA	
12:00 - 12:15		CONTRIBUTED PAPER	SIMON NANTY	AMADEUS	ARTIFICIAL INTELLIGENCE TECHNOLOGIES AND FIRMS' INNOVATION: EVIDENCE FROM HOSPITAL SUPPLIERS
12:15 - 12:30		CONTRIBUTED PAPER			
		LUNCH BREAK			
13:30 - 14:00	SUSTAINABLE AI Chairman Olena Kushakovska	KEYNOTE SPEECH	PROF. ERNESTO DAMIANI	UNIVERSITY OF MILANO	
14:00 - 14:15		CONTRIBUTED PAPER	AMAL MTIBAA	MINES PARITECH	REFRIGERANT LEAK DETECTION IN INDUSTRIAL REFRIGERATION SYSTEMS WITH VAPOR COMPRESSORS
14:15 - 14:30		CONTRIBUTED PAPER	ANGELO RODIO	INRIA	FEDERATED LEARNING UNDER HETEROGENEOUS AND CORRELATED CLIENT AVAILABILITY
14:30 - 15:20		ROUND TABLE	MODERATOR : MURIEL VALIN	EPSILOON	IN AI WE TRUST ?
		BREAK			
15:35 - 16:20	AI & MANAGEMENT Chair Jonas Hoffmann & Ludovic Dibiaggio	KEYNOTE SPEECH	CESAR HIDALGO	UNIVERSITY OF TOULOUSE	
16:20 - 16:35		CONTRIBUTED PAPER	JAN BROEKAERT	SKEMA BUSINESS SCHOOL	A COMPARATIVE COST ASSESSMENT OF COALESCING EPIDEMIC CONTROL STRATEGIES
		BREAK			
16:50 - 17:05		CONTRIBUTED PAPER	MATHIEU CHEVRIER	CNRS	HUMAN DECISION-MAKING IN THE PRESENCE OF ALGORITHM ADVISER: AN EXPERIMENTAL EMPHASIS
17:05 - 17:20		CONTRIBUTED PAPER	ARTYOM YEPREMYAN	SKEMA BUSINESS SCHOOL	HUMAN VS AI: THE ROLE OF HUMAN CAPITAL IN FORECAST AUTOMATION
17:20 - 17:35		CONTRIBUTED PAPER	BERNARD SINCLAIR DESGAGNÉ	CNRS - GREDEG	ON THE (NON-)RELIANCE ON ALGORITHMS - A DECISION-THEORETIC ACCOUNT
17:35 - 18:20	OTESIA-OBVIA	ROUND TABLE	LUDOVIC DI BIAGGIO		
17:35 - 18:20	POSTER SESSION	ROOM "THE COACHES"			

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DAY 3 | FRIDAY, NOV 25

08:30 - 09:00	AI FUNDAMENTALS Chairman Serena Villata	KEYNOTE SPEECH	IRYNA GUREVYCH	UNIVERSITY OF DARMSTADT	
09:00 - 09:15		CONTRIBUTED PAPER	GABRIELE CIRAVEGNA	INRIA	ON THE TWO-FOLD ROLE OF LOGIC CONSTRAINTS IN DEEP LEARNING
09:15 - 09:30		CONTRIBUTED PAPER	ALESSANDRO BETTI	INRIA	FOVEATED NEURAL NETWORKS
09:30 - 10:15		ROUND TABLE	SERENA VILLATA		
BREAK					
10:35 - 11:05		INVITED TALK	VINCENT VANDEWAALE	UNIVERSITÉ COTE D'AZUR	
11:05 - 11:35		CONTRIBUTED PAPER	OTHMANE MARFOQ	INRIA - ACCENTURE	FEDERATED LEARNING FOR DATA STREAMS
11:35 - 11:50		CONTRIBUTED PAPER	CHRISTELE TARNEC	ORANGE	CAUSAL BASED FAIRNESS : A METHODOLOGY TO USE COUNTERFACTUAL FAIRNESS
11:50 - 12:05		CONTRIBUTED PAPER	YANN FRABONI	INRIA	A GENERAL THEORY FOR CLIENT SAMPLING IN FEDERATED LEARNING
12:05 - 12:20		CONTRIBUTED PAPER			
LUNCH BREAK					
12:20 - 14:00	POSTER SESSION	ROOM "THE COACHES"			
14:00 - 14:30	CLOSING CEREMONY Chairman Stephane Descombes	KEYNOTE SPEECH	CARLOS TORRECILLA SALINAS	EUROPEAN COMMISSION	A EUROPEAN APPROACH TO ARTIFICIAL INTELLIGENCE
14:30 - 14:37		AWARDS CEREMONY (POSTER)	STÉPHANE DESCOMBES	UNIVERSITÉ COTE D'AZUR	
14:37 - 14:44		AWARDS CEREMONY (DEMO)			
14:44 - 14:50		SOPHI.A AWARDS CEREMONY			
14:50 - 15:20		KEYNOTE SPEECH	PHILIPPE DESPRES	UNIVERSITÉ LAVAL	
15:20 - 15:30		CONCLUDING WORDS	CHARLES BOUVEYRON	3IA - UNIVERSITÉ COTE D'AZUR	