



SOPHIA

SPRINGBOARD FOR ARTIFICIAL INTELLIGENCE

EDITION 2019

19-23
NOVEMBER 2019

« AI WEEK » PROGRAM



amadeus

Hewlett Packard
Enterprise

accenture

EURECOM
SOPHIA ANTIPOLIS

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The Imaging Phenomics
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SOPHI.A SUMMIT 2019

AI WEEK

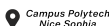

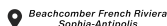
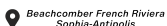
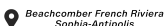
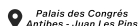










The second edition of **Sophi.A Summit**,
Springboard for Artificial Intelligence,
will take place in **Sophia Antipolis**
from **November 19-23, 2019**.

To mark the 50th anniversary of the technopole &
the launch of the “3IA Côte d’Azur”,
this year’s format evolves into
“THE AI WEEK”

gathering key industrial, academic &
institutional stakeholders specialized in AI.

A total of **four events** will be held during the week,
including the Summit flagship:

SOPHI.A SUMMIT 2019 - AI WEEK

SIDE EVENTS	SOPHIA SUMMIT			PUBLIC AI CONFERENCE
TUESDAY, 19 th NOVEMBER	WEDNESDAY, 20 th NOVEMBER	THURSDAY, 21 st NOVEMBER	FRIDAY, 22 nd NOVEMBER	SATURDAY, 23 rd NOVEMBER
 				
8:00AM				8:00AM
9:00AM				9:00AM
10:00AM				10:00AM
11:00AM				11:00AM
12:00PM				12:00PM
1:00PM				1:00PM
2:00PM				2:00PM
3:00PM				3:00PM
4:00PM				4:00PM
5:00PM				5:00PM
6:00PM				6:00PM
7:00PM				7:00PM
8:00PM				8:00PM
9:00PM				9:00PM
10:00PM				10:00PM
AI MASTER CLASSES ORGANIZED BY TELECOM VALLEY & PARTNERS 8:30AM ~ 5:00PM Free Entry	 OPENING CEREMONY 10:00AM ~ 12:30AM  AI & HEALTH 2:00PM ~ 5:00PM  ROUND TABLE AI & ETHICS 5:15PM ~ 6:45PM  SOCIAL EVENT 7:00PM ~ 9:00PM 3-Day Pass Only	 AI FUNDAMENTALS 8:30AM ~ 12:00PM  AI & SMART TERRITORIES & INFRASTRUCTURES 2:00PM ~ 5:15PM  ROUND TABLE IMPACT OF AI ON ENTERPRISES 5:30PM ~ 7:00PM 3-Day Pass Only	 AI & HEALTH 8:30AM ~ 10:45PM  CLOSING CEREMONY 11:00AM ~ 1:00PM 3-Day Pass Only	 PUBLIC TALK BY LUC JULIA Author of «AI Doesn't Exist» & Co-inventor of SIRI 4:00PM ~ 6:30PM Free Entry



Wed. November 20th

AI & HEALTH

AI & ETHICS

Wed. November 20th

9:30AM	Welcome Breakfast	
10AM	OPENING CEREMONY Keynote Speaker : Marco Gori Professor of Computer Science, University of Siena	
12:30PM	Lunch	
2PM 2:40PM	<u>AI & HEALTH</u>	
	Plenary Session: Emmanuel Bacry Health Data Hub	
	Plenary Session: Michael Tangermann Freiburg University, Dept. of Computer Science	
3:20PM	Break	
	Parallel Sessions Chair H. Delingette <i>Grand Chelem Room</i>	Parallel Sessions Chair O. Humbert <i>Coaches Room</i>
3:30PM	Mining Natural Language Arguments on Clinical Trials S. Villata, I3S	LightHouse: An AI-Based Solution for the Blind & Visually Impaired O. Bara, Scalian
3:50PM	AI & Biophysics for Computational Cardiology: Learning by Heart M. Sermesant, INRIA	PredictMed: Using AI for Medical Prediction in Neurology C.M. Bertoncelli, Lenval Hospital
4:10PM	Box-constrained Minimax Classifier for Personalized Medicine L. Fillatre, I3S	AI in Abdominal Aortic Aneurysm J. Raffort, CHU Nice
4:30PM	A Statistical Classification Approach to Differentiate Bipolar Disorder & Major Depressive Disorder S. Barbosa, IPCM	AI to Design Odorants Targeting Emotion & Motivation D. Renaud, CHU Nice
5PM	Break	
5:15PM – 6:45PM	<u>AI & ETHICS</u> ROUND TABLE	
	Keynote Speaker: Lyse Langlois, Laval University & International Observatory on Societal Impacts of AI & the Digital Technology L. Godefroy, M. Teller - Université Côte d'Azur, G. Lewkowicz - Université Libre de Bruxelles, S. Cheran, HPE, K. Benyekhlef, Université de Montréal	
7PM – 9PM	SOCIAL EVENT <i>Beachcomber Hotel Lounge</i>	



Thu. November 21st

AI FUNDAMENTALS

AI, SMART TERRITORIES &
INFRASTRUCTURES

IMPACT OF AI ON ENTERPRISES

Thu. November 21st

	<u>AI FUNDAMENTALS</u>	
9AM	Plenary Session: Frank Nielsen Teacher-Researcher, Polytechnique	
9:45AM	<i>Break</i>	
	Parallel Sessions Chair F. Laviolette <i>Grand Chelem Room</i>	Parallel Sessions Chair F. Precioso <i>Coaches Room</i>
10AM	Monitoring Cyberbullying through Message Classification & Social Network Analysis E. Cabrio, Université Côte d'Azur	When the Reasoning Power of Human Beings Meets the Computing Power of the Machine J.C. Régim, UCA & 3IA
10:20AM	Optimal Transport & AI: Learning with the Least Effort R. Flamary, UCA & 3IA	Machine Learning Meets Security M. Bezzi, SAP
10:40AM	Theoretical Foundations for Interpretability in AI: the LIME case D. Garreau, UCA	Reinforcement Learning for Navigation in Dynamic Environments A. Celani, ICTP
11AM	A Deep Text Based Recommender System M. Corneli, UCA	Explainable AI Based on the Feature Contribution S. Grah, Thales
11:20AM	<i>Break</i>	
11:30AM	A Stochastic Blockmodel for Interaction Lengths in a Dynamic Network R. Rastelli, UCD Ireland	Spherical Convolutional Neural Network for Fiber Orientation Distribution Function & Micro-Structure Parameter Estimation from Diffusion MRI S. Sedlar, INRIA
11:50AM	Expert in the Loop: Human-Machine Interaction to Build Safe AI-Based Systems in Healthcare M. Zuluaga, Eurecom	The Role of Network Topology for Distributed Machine Learning G. Neglia, INRIA
12:10PM	Missing Data Meets Deep Learning P.A. Mattei, INRIA	Amadeus & IBM
12:30PM	<i>Lunch & Exhibition</i>	

Thu. November 21st

AI, SMART TERRITORIES & INFRASTRUCTURES

2PM	Plenary Session: Niloy Mitra, University College London, Dept. of Computer Science	
2:40PM	Plenary Session: Claude Le Pape Schneider Electric, VP Technology Portfolio & Partnerships - Optimization and Analytics Domain Leader	
3:20PM	<i>Break</i>	
	Parallel Sessions Chair P. Alliez <i>Grand Chelem Room</i>	Parallel Sessions Chair N. Maïzi <i>Coaches Room</i>
3:30PM	Mobile AI: Challenges & Opportunities M. Debbah, Huawei	Towards Energy Behavior Change in Smart Buildings Using AI R.Akkouche, S. Selosse, G. Guerassimoff, Mines ParisTech
3:50PM	AI for Embedded, AI Challenges & Solutions F. Piry, ARM	Machine Learning Methods to Assist Multi-energy Systems Optimization in a Smart Grid D. Bousnina, G. Guerassimoff, Mines ParisTech
4:10PM	Using Scenarios to Explore AI Implications for Infrastructures & Territories J. Hoffmann, SKEMA	How AI Can Improve the Traveler Experience R.A. Agost, Amadeus
4:30PM	Using AI to Optimize Industrial & IT Prescriptive Maintenance Operations P. Baudelle, HPE	Automatic & Robust Chain for Urban Reconstruction from Satellite Imagery Y. Tarabalka, Luxarta
4:50PM	Making AI Happen: How to Successfully Implement AI Transformations C. Bataller, Accenture	From Satellite Images to Digitized Representation O. Tasar, INRIA
5:15PM	<i>Break</i>	
5:30PM - 7PM	<u>IMPACT OF AI ON ENTERPRISES</u> ROUND TABLE	
	E. Viale - Accenture, G. Floyrac - Amadeus, F. Farzaneh - IPAG, P. Masse - HPE, B. Sinclair-Desgagne - SKEMA	



Fri. November 22nd

AI & HEALTH

Fri. November 22nd

	<u>AI & HEALTH</u>
8:30AM	Plenary Session: Benoît Lamarche Laval University, Quebec, Faculty of Agriculture & Food Sciences
9:15AM	<i>Break</i>
	Sessions Chair T. Papadopoulos <i>Grand Chelem Room</i>
9:30AM	Leveraging AI Technologies in Imaging to Unlock the Power of Precision Medicine N. Boujeema, Median Technologies
9:50AM	Source-Target Proximity Analysis in Protein Networks Using Random Walks with Restart; Applications to Cancer Drug Resistance Prediction from Single-Cell Data F. Cazals, INRIA J. Roux, Université Côte d’Azur A. Jean-Marie, INRIA D. Mazaauric, INRIA G. Santa Cruz, INRIA
10:30AM	Clinical Setting Specific Semi-Supervised Approach to Model Synthetic Genomes of Pregnant Women to Determine Confidence Intervals for NIPT S. Bottini, MDLab
10:50AM	<i>Break</i>
11:00AM – 1PM	CLOSING SESSION



SOPHI.A SUMMIT 2019

SIDE EVENTS

SOPHIA SUMMIT 2019

FREE OF CHARGE SIDE EVENTS

AI MASTER CLASSES

Tue. November 19th

8:30AM – 5PM



Campus Polytech Nice Sophia

930 Route des Colles, 06410 Biot Sophia Antipolis

AI EDUCATION FORUM

Tue. November 19th

10AM – 4PM



Campus SophiaTech, Espace Entreprises

930 Route des Colles, 06410 Biot Sophia Antipolis

PUBLIC CONFERENCE

“ARTIFICIAL INTELLIGENCE DOESN'T EXIST”

A Talk by Luc Julia

Innovation Vice-President at Samsung, Author & Co-inventor of Siri

Sat. November 23rd

4PM – 6:30PM



Palais des Congrès Antibes - Juan les Pins

60 Chemin des Sables, 06160 Antibes