



SPEAKERS - Wednesday, June 26th

09:45 - Welcome & Introduction

Emmanuel SABONNADIÈRE

CEO Leti

Since November 20th, 2017, Emmanuel Sabonnadiere is appointed CEO of the Leti of CEA Tech. Before, he was in charge of the Industrial Partners of CEA Tech.

Previously, Emmanuel Sabonnadiere was CEO of the Business Group Professional of Philips Lighting based in Amsterdam (NL). From 2008 till 2014, he was CEO & Chairman of General Cable Europe based in Barcelona (Spain). Emmanuel Sabonnadiere was CEO of NKM Noell at Würzburg (Germany) from 2005 till 2008. He was vice-president of the Distribution Transformers division of Alstom T&D for 5 years. He began his career in 1992 with Schneider Electric holding various positions including that of Managing Director of development for equipment units.

Emmanuel Sabonnadiere has a strong technological background combined with a successful business track record over decades. With 25+ years of executive leadership of large operations, he had produced successful operating Result and great Team building. He had gained a sound experience of change management in large multi-cultural matrix organizations in order to adapt to the new markets conditions and a strong knowledge of European and International environments. He designed and set-up Strategic Plans including innovation process. Emmanuel Sabonnadiere believes in operational excellence, innovations in technology, talents management and enthusiasm in leadership.

Emmanuel Sabonnadiere obtained a PhD in physics (France), and an engineering degree in Information Technology (France). He holds an MBA (France).

Emmanuel Sabonnadiere is a fully qualified instructor at the ski school in Les Ménuires, and member of the Advisory board of IAC.

Michaël TCHAGASPANIAN

EVP Sales & Technical marketing.

Michaël Tchagaspanian became the Executive Vice President Sales & Marketing of Leti in 2017.

He launched collaborative programs with industrial partners in field of smart sensing & imaging, embedded system and integrated circuit. He served as business development manager for integrated circuit and embedded systems Division.

During his previous 12 years at CEA,

He was the head of image sensor design team, dedicated to smart integrated circuit for imaging and

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display applications. Advanced algorithms were designed and integrated in circuit architecture for several applications (defense & security, smart home & building, medical).

During the previous 11 years at the semiconductor industry, As Design Engineer Leader for ST Microelectronics and On Semiconductor, He designed system on chip integrated circuits for Radio Frequency and Power management applications. He led strategic projects for automotive and mobile phone application.

Michael Tchagaspanian received the Engineering Degree ENSERG and the Master of Science Degree in Electronics Engineering from the Institute National Polytechnique de Grenoble INPG in 1994.

How Artificial Intelligence will Empower Applications

10:00 - Impact of AI on the Electronics and Semiconductor Industries

Dr Handel JONES

International Business Strategies (IBS)

Handel Jones is the founder, owner, and CEO of International Business Strategies, Inc. (Los Gatos, CA).

Dr. Jones has over 35 years of experience in the electronics industry, which has included senior management positions at ITT and at Rockwell International (an organization with approximately 14K employees), where he was VP of Strategic Planning, Acquisitions, International Marketing, and Engineering. As VP of Engineering at Rockwell, Dr. Jones had 1,500 engineers reporting to him.

Dr. Jones was also the President and COO of a publicly traded semiconductor company. He steered the company through a successful public offering and a key acquisition. The extensive experience base of Dr. Jones in the U.S. and international business has helped form the philosophy of IBS, which is to assist companies in developing and implementing winning strategies. The organization of IBS is committed to this goal and provides world class support to its clients. IBS has been in business for over 22 years. IBS is active in supporting a number of global companies and is also active in supporting the financial community, including a number of the large private equity companies.

10:20 - Mapping the Retail World, Every Store, Every Product, Every Day

Sarjoun SKAFF

BOSSA NOVA ROBOTICS, Founder & CTO

Sarjoun is the co-founder and Chief Technology Officer of Bossa Nova Robotics.

He is responsible for the development of Bossa Nova technology, from long-term robot autonomy to data analytics and AI. He has spent the last twenty years bringing robots to people's lives, from commercializing half a million robotic toys to deploying robots that navigate retail aisles alongside shoppers. He loves building technology that helps people in their daily lives, and is currently developing data and automation tools needed by the retail world to reinvent itself.

Sarjoun holds a PhD and a Masters in Robotics from Carnegie Mellon University and a Bachelor in Mechanical Engineering from the American University of Beirut. He holds multiple patents and has received awards including the Ernst and Young Entrepreneur of the Year, Western Pennsylvania (2011), the FEA Distinguished Young Alumni (2011) and the Pittsburgh Technology Council's Top 50 in Tech (2009).

10:40 - Artificial Intelligence: Unlocking the Power of the Genome

Serafim BATZOGLU

ILLUMINA, Vice president, Applied & Computational Biology

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Serafim Batzoglou, Ph.D., joined Illumina in September 2012. As Vice President of Computational Biology, he leads research and development on application of AI on core sequencing technologies and on genome interpretation.

He completed his Ph.D. in Computer Science at MIT in 2000 and joined the faculty of Computer Science at Stanford University in 2001, where he was Professor of Computer Science until September 2016.

His research has focused on application of algorithms and AI to the analysis of large-scale genomic data. He has published over 100 scholarly reviewed articles, is recipient of the inaugural ISMB Innovator Award in 2016, the Alfred P Sloan Fellowship, the NSF Career Award, and was named top 100 Young Technology Innovator in 2003 by MIT's Technology Review magazine, among other distinctions.

Artificial Intelligence: RTO's Vision from Software to Hardware

11:00 - Artificial Intelligence in Inria Grenoble

Patrick GROS
INRIA, CEO

Patrick Gros has been involved in research in the field of image analysis since 1990. He received his PhD degree from University of Grenoble - France in 1993.

In 2002, he founded a research group dedicated to multimedia indexing and retrieval. The key idea of the team was to gather specialists of various media and techniques (learning, databases, data analysis) in a unique team in order to cope with problem like multimodality and coupling between document description and indexing techniques. The group gathered 30 people coming from the various fields concerned by multimedia retrieval: image, video, sound, speech and natural language processing, statistics, machine learning and databases.

Since 2014, P. Gros has been the director of the Inria research center of Grenoble - Rhône-Alpes, France. Patrick Gros's research interests concern multimedia indexing and retrieval in very large collections with applications like copy detection, TV analysis, audiovisual information retrieval.

Special Keynote

11:40 - Advanced Solutions for Dedicated AI Processing Hardware

Claude DARDANNE
STMICROELECTRONICS, President, Microcontrollers & Digital ICs Group

Claude Dardanne is STMicroelectronics' President, Microcontrollers and Digital ICs Group, and has held this position since January 2016. He is a member of ST's Executive Committee since May 31st, 2018.

Dardanne started his career with Thomson Semiconducteurs, a predecessor company to ST. From 1982, he was responsible for microcontroller and microprocessor marketing. Between 1989 and 1994, Dardanne was Marketing Director at Apple Computer and Alcatel-Mietec.

In 1994, herejoined ST as Director of Central Marketing for the Memory Products Group, became Head of the EEPROM Division in 1998, and was later appointed Group Deputy General Manager and Head of the Smart Card Division. ST consolidated its Microcontroller, Memory, and Secure MCU (MMS) activities in 2007 and appointed Dardanne Corporate Vice President and the MMS General Manager. Under his leadership, MMS has become a key asset in revenue and market-share growth and profitability and a worldwide leader in the microcontroller market. Claude Dardanne graduated with a degree in Electronic Engineering from the Ecole Supérieure d'Ingénieurs en Génie Electrique in Rouen, France.

14:30 - How Edge AI will Affect Society

Véronique AUBERGÉ

CNRS researcher, human sciences, Computer Sciences Lab, UGA

Véronique Aubergé is a CNRS researcher in human sciences at the LIG Lab (Computer Sciences Lab at Grenoble, France) where she heads the Domus Living Lab platform, and she is an associate Professor at the University of Grenoble-Alpes (UGA) where she directs I3L department. She heads the Chair Robo'Ethics at Grenoble National Polytechnics Institute.

She has a PhD in Language Sciences and in Computer Sciences. She was a research engineer at the French Company OROS, and a researcher at ICP Lab and then at GIPSA Lab until 2012, where she developed cognitive models, experiments and applications in phonetics, prosody and expressive text-to speech synthesis.

At LIG Lab, she focuses on social robotics as instruments to observe and to design models on the human interactional behaviors. She develops co-construction methods for experimenting in Living Lab some real life socio-damaged situations (elderly, children at hospital), for which the robot could be a transitory aid in ethical issues. In particular she is implied in the LIG robotic Social-Touch-RobAir platform developed within the LIG fablab, and in Emox (Awabot Inc) and Diya One (Partnering Robotics Inc.) robots.

15:30 - AI Leadership: Today's Great Battle

Gary DICKERSON

APPLIED MATERIALS, CEO

Gary Dickerson was named president of Applied Materials, Inc. in June 2012 and appointed chief executive officer and a member of the board of directors in September 2013.

Mr. Dickerson is a long-time industry leader with more than 30 years of semiconductor experience and a strong track record of delivering profitable growth and gaining market share while achieving recognition for outstanding customer satisfaction.

15 :50 - AI Design and Drivers of AI Chip Architectures

Chekib AKROUT

SYNOPSYS INC, Corporate VP Strategic Projects

Chekib is Corporate Vice President, Strategic Programs, responsible for driving artificial intelligence and machine learning strategic initiatives at Synopsys. Chekib joined the company in 2018. He has more than 35 years of experience in semiconductor and microprocessor development.

Prior to joining Synopsys, Chekib was with Advanced Micro Devices (AMD) for 10 years. Most recently as Senior Vice President, Global Operations, he led supply chain, procurement, technology development, quality, and platform and product engineering across all AMD business groups. Before that, as Senior Vice President, Infrastructure and Engineering, he oversaw platform and product engineering, design methodology, and IT. In his role as Senior Vice President, Business Transformation, he participated in AMD turnaround. He was also responsible for system architecture research, performance analysis, design packaging, microprocessor core development, and design methodology development. Prior to his tenure at AMD, Chekib served in various VP and GM roles at Freescale Semiconductor (NXP) and IBM.

At Freescale, he led the company's networking system division, a \$1.1 billion per-year business. At IBM, he drove the company's microprocessor development projects. Chekib has a bachelor's degree in Physics and a Ph.D. in Physics and Electronics.

16:45 - *Software: Unleashing tomorrow's AI potential*

Jean-Noël PATILLON

CEA-List, Director of CEA LIST Institute

Dr. Jean-Noël Patillon is a graduate of Supélec Engineering School and holds a PhD degree in Solid State Physics from the Solid State Physics Lab of University Paris XI. From 1984 to 1996, he joins the LEP (Laboratoire d'Electronique Philips), and becomes the Optoelectronics group leader. In 1996, he joins Motorola Labs Paris and heads the "Broadband System and Technology » and « Molecular Electronics Research » labs, which address the fields of short range systems (WLAN, WPAN) and heterogeneous network, cognitive radio and SDR. He's involved in various projects such as @HOM, Broadway, UCAN, WINNER, PULSERS, FIREWORKS, E2R/E2RII, E3.

In January 2009, he joins the French Alternative Energies and Atomic Energy Commission (CEA) and becomes the head of the CEA List institute's « Communication systems » lab, working on E2E and M2M communication systems and solution. He contributes to the setting up of the Nano-INNOV operation and the SystemX Technological Research Institute. He is appointed scientific director of the CEA List and assistant to the director of the CEA List Carnot institute in 2013.

He is Acting Director of the CEA List Institute since September 2018.

17:00 - *Get Some Fresh Ideas: 180sec Pitches by 4 talented young scientists*

Inria & Leti

Coming soon

17:15 - *G5 interspecies, an Artistic View of Human-Robot Interactions*

Rocio BERENGUER

ART & SCIENCE Performance

Rocio Berenguer, a transdisciplinary artist, who is interested in the dramaturgy of the body and in the new media. Her creations, which belong at the same time to art and research, explore the hybridization between various disciplines and fields: theatre, dance, video, science and technology. Her art research is centred on the body and its relationships to the environment, technology and alterity.

SPEAKERS - Thursday, June 27th

14:00 - *Perspectives in Virtual and Augmented Reality*

Edgar AUSLANDER

FACEBOOK, Head of Partnerships

Edgar Auslander is Head of Partnerships for Oculus and Facebook Reality Labs (FKA Oculus Research) at Facebook, focusing on VR and AR new hardware and software technologies.

He is the Founder of Menlo Business Partners, a consulting firm helping companies grow or exit. A former Faculty Member at Stanford University and at EDHEC business school, he started his career while studying for his MBA by licensing inventions from Columbia University Telecommunications Research Center.

Edgar Auslander has held several executive positions at Qualcomm, Intel, STEricsson, Audience (a

company he helped sell to Knowles), Texas Instruments, VantagePoint Venture Partners, and IXI-Mobile. Notably, he was one of the founders of Texas Instruments' Wireless Business Unit and served as its General Manager, Worldwide Strategy and Corporate Development. He also served as SVP Marketing at IXI Mobile Inc., a Silicon Valley start-up that pioneered wearables and services similar to Instagram in 2001.

Artificial Intelligence Driving Computing

14:20 - What do you need to make AI work for you?

Robert VASSOYAN

ATOS, Chief Commercial Officer

Robert Vassoyan, Chief Commercial Officer of Atos since March 2018, is a member of the Atos Group Executive Committee.

After his graduation from French business school ESSEC, and various positions in the IT industry (Compaq as marketing and sales director France, HP as head of alliance, MEA and France services sales) Robert joined Cisco in 2007 as Sales Director in charge of the French Small & Medium Businesses market and member the Executive Committee, before being promoted Managing Director for the Large Accounts a year later. He was then appointed President of Cisco France in August 2011.

Robert has been elected President of AmCham (American Chamber of Commerce in France) in February 2016. He is also a board member of CESI (Center for Higher Education Industry).

14:40 - Latest Innovations : Device, process and system technologies

Kazunari ISHIMARU

TOSHIBA CORP. SEMICONDUCTOR & STORAGE PRODUCTS COMPANY, Memory Division

Kazunari Ishimaru from the Memory Division, Toshiba Corporation Semiconductor and Storage Products Company, Yokohama, Japan was named Fellow of the Institute of Electrical and Electronics Engineers (IEEE) in 2014 for contributions to static random access memory and complementary metal-oxide semiconductor devices.

Artificial Intelligence: Startups to Watch

15:00 - GTI's Edge-First Approach

Terry TORNG

GYRFALCON TECHNOLOGY, Co- Founder & Sr. VP Engineering

Terry had worked in MagIC/TDK and Headway/TDK both as VP of Engineering and lead the team that worked on MRAM, MEMS, magnetic sensors and biosensor product development.

The team also achieved the industry's first 400 C embedded PMA STT MRAM processes and then transferred to TSMC for volume production. Terry was been granted more than 120 US, Japan, European and WIPO patents, ranging from MRAM, magnetic recording head, magnetic sensor, MEMS, biosensors and AI processors.

He was named one of ISI's 1000 most cited physicists from 1981 to 1997. Terry is also one of the trio who discovered high Tc YBaCuO (95 K) Superconductors in 1986. Terry received his PhD in Materials Science from the University of Minnesota.

15:00 - GTI's Edge-First Approach

Dave FICK

MYTHIC, CTO & Founder

Dave Fick is the CTO and co-founder of Mythic, an Austin, Texas-based startup that is creating the next generation of inference microchips.

Mythic uses mixed-signal computing to achieve 20-100x improvements in neural network performance for edge devices, and has raised \$55M from top-tier investors to execute on this vision. Dave Fick earned his Ph.D. from the University of Michigan.

Special LID Guest

15:50 - For a Meaningful AI & Interactive session: *The Artificial Intelligence Race*

Cédric VILLANI

ACCLAIMED MATHEMATICIAN, recipient of the Fields Medal - Special LID Guest

Cédric Villani, is an acclaimed French mathematician who was awarded the Fields Medal in 2010 for his work in mathematical physics.

Villani studied mathematics at the École Normale Supérieure in Paris. He received a master's degree in numerical analysis from Pierre and Marie Curie University in Paris in 1996 and a doctorate in mathematics from the University of Paris Dauphine in 1998. From 2000 to 2010 he was a professor of mathematics at the École Normale Supérieure in Lyon, and in 2010 he became a professor of mathematics at the University of Lyon.

Villani was awarded the Fields Medal at the International Congress of Mathematicians in 2010 for his work involving entropy. The amount of molecular disorder, or randomness, of a system is measured by entropy. Entropy always increases in a system until it is in thermal equilibrium with its environment. However, the rate at which entropy increases was unknown until 2005, when Villani and French mathematician Laurent Desvillettes determined that entropy did not increase at a constant rate. In 2009 Villani and French mathematician Clément Mouhot proved Soviet physicist Lev Landau's conjecture that plasma reaches equilibrium without increasing its entropy. Villani also found applications for the mathematical study of entropy in differential geometry and in transport theory.

16:45 - Interactive session: *The Artificial Intelligence Race*

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