WELCOME

October 3-7, 2021, Barcelona, Spain

NexTech 2021

UBICOMMM, ADVCOMP, SEMAPRO, AMBIENT, GLOBAL HEALTH, EMERGING, DATA ANALYTICS, CYBER

Enjoy permanent free access to the .pdf presentations and/or prerecorded videos along with their corresponding papers.

MANY THANKS FOR YOUR HARD WORK AND SUPPORT

Tough times ask for tough scientists and here you are. Authors, Chairs, Reviewers, Logistics acted exemplarily and put together an exceptional program.

14 KEYNOTE SPEAKERS (I)

Theme: Explainable AI
Dr. Anne Coull, University of New South Wales, Australia

Theme: Engineering of Complex System of Systems
Prof. Dr. Jerker Delsing, Lulea University of Technology, Sweden

Theme: Results from More Than Two Decades of Exploiting Efficient Abstractions and Translation to SAT to Formally Verify Complex Pipelined/Superscalar/VLIW Microprocessors
Miroslav N. Velev, Aries Design Automation, USA (*www.aries-da.com*)

Theme: Information Warfare and Critical Infrastructure: The Combined Power of Information Warfare Threats
Prof. Dr. Joshua A. Sipper, Cyber Warfare Studies, Air Force Cyber College, USA

Theme: The Design Science Perspective on e-Health Applications for Re-learning Purposes
Sr. Lect, Dr. Karin Ahlin, Mid Sweden University, Sweden

14 KEYNOTE SPEAKERS (II)

Theme: The Use of Random Walk Models in the Determination of Sequential Classification Errors in the Absence of Absolute Ground Truth
Prof Clement Leung, Chinese University of Hong Kong, Shenzhen, China

Theme: Digital Twins for Smart Systems
Prof. Dr. Ivana Semanjski, Ghent University, Belgium

Theme: A Do-It-Yourself Approach to Ambient Assisted Living
Prof Dr Sylvain Giroux, University of Sherbrooke, Canada

Theme: Parallel Adaptive Simulation of Processes from Science and Engineering
Prof. Gabriel Wittum, AMCS, King Abdullah University of Science and Technology (KAUST) - Thuwal, Saudi Arabia and G-CSC, Goethe University of Frankfurt, Frankfurt am Main, Germany

Theme: Metrics to Rank Illegal Buildings
Prof. Dr. Paolino Di Felice, University of L'Aquila, Italy

14 KEYNOTE SPEAKERS (III)

Theme: ~ Intentional Answers to Database Requests
Priv.-Doz. Dr. Techn. Helmut Horacek, DFKI/Saarland University, Germany

Theme: Semantic Web of Things
Assist Prof. Giuseppe Loseto, LUM University, Italy

Theme: Data in Urban Air Mobility
Silvio Semanjski, Managing Director, SEAL Aeronautica SL – Barcelona, Spain & EU Project "Urban Air Mobility"

Theme: Data Sensing and Fusing for Production Machinery Maintenance: Digital Assistance with Post-Analysis, Diagnostics and Prognostics
Adj. Prof. Dr. Dmitry Korzun, Petrozavodsk State University (PetrSU), Russia

TWO EXPERT PANELS (I)

NexTech Expert Panel I

Theme: Cyber Protection: Are we Correctly Metering and Accurately Processing Salient Data?

(critical cyber systems, useless huge data, patterns in big data, data quality and cyber-relevance, obsolete or fake data, multi-facets dataset puzzle, process standardization, lessons learned. etc.)

Chair

Steve Chan, Decision Engineering Analysis Laboratory, USA

Panelists

Sandjai Bhulai, Vrije Universiteit Amsterdam, The Netherlands

Les Sztandera, Thomas Jefferson University, USA

Ah Choo Koo, Multimedia University, Malaysia

Joshua Sipper, Air Force Cyber College, USA

Christine Perakslis, Arizona State University, USA

TWO EXPERT PANELS (II)

NexTech Expert Panel II

Theme: Impending Technical Societal Challenges: Qvo Vadis?

(digitization, digital awareness, safety and threats, personal data, discovering relevant data, on line content, fake news, social media, citizen behavior, health accessibility, psychological/physical addiction, etc.)

Chair

Petre Dini, IARIA, USA

Panelists

Mihhail Matskin, Royal Institute of Technology KTH, Sweden

Alireza Morsali, McGill University, Canada

Anders Fongen, Norwegian Defence University College, Norge

Michael Suppanz, FH Kaernten, Austria

Efstratios Kontopoulos, Catalink Limited, Cyprus

Christine Perakslis, Arizona State University, USA

THREE SPECIAL TRACKS

DATA ANALYTICS / PDA: Predictive Data Analytics
Chair: Prof. Dr. Sandjai Bhulai, Vrije Universiteit Amsterdam, the Netherlands

GATA ANALYTICS / HDBS: Harnessing Data for the Benefit of Society
Chair: Prof. Dr. Les Sztandera, Thomas Jefferson University - Philadelphia, USA

GLOBAL HEALTH / TESR: Technology Enhanced Relearning
Chair: Senior Lecturer Karin Ahlin, PhD, Mid Sweden University, Sweden

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The only operational support comes from registration fees. This generous and ethically fair knowledge sharing model cannot survive a pandemic without true believers in free-access to knowledge and information, which is IARIA's philosophy and vision.

Thanks to all outstanding scientists contributing to NexTech 2021 program!

For 2021, all events will be held in a hybrid mode with 5 options: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides).

We hope for better times allowing us to return to the traditional on-site scientific events. However, we are ready to adapt to any unexpected circumstances.

Hoping that 2022 will be a more agreeable year!

Special and Regular Contributions

Despite the ups/downs of the virus, early submissions were more enthusiastic as everyone was hoping that the Spring season 2021 will find us safe, but also virus-free. We wish this were the case and everyone could have attended in person and enjoyed the event.

It is important to say that the help and contributions of all active members, chairs, keynote speakers, tutorial speakers, chairs, authors and members of the respective program committees were outstanding. The result is illustrated by a very rich and instructive program.

We hope you will enjoy it.

Hope never dies!

Hoping for a face-to-face NexTech 2022 congress

November 13-17, 2022 - Valencia, Spain

Be Safe and Stay Healthy!

Chairs & Logistics

October 2nd, 2021