



Conference Topic: Automation and control



2020 3rd International Joint
Conference on Clean Energy
and Smart Grid



2020 4th International Conference
on Energy Science and
Electrical Engineering



2020 International Conference
on Frontiers of Energy and
Environment Engineering



2020 4th International Conference
on SmartRail, Traffic and
Transportation Engineering



2020 International Conference on
Transport and Smart Cities



2020 International Conference
on Smart Transportation
and Future Mobility



2020 4th International Conference on
Vision, Image and Signal Processing



2020 International Symposium on
Computer Graphics, Multimedia,
and Image Processing



2020 3rd International Joint Conference
on Computer Vision and Pattern
Recognition



2021 International Conference on
Advanced Control, Automation
and Robotics



2021 5th International Conference on
Aerospace, Mechanical and
Mechatronics Engineering



2021 International Conference on
Unmanned Aerial Systems
and Aerospace

Conference Keynote Speakers

Prof. Renata Reisfeld

—Department of Inorganic Chemistry, Hebrew University of Jerusalem, ISRAEL

Renata Reisfeld was born in Poland. She came to Israel in 1950 and graduated from the Hebrew University of Jerusalem, she is Enrique Berman Active Professor Emeritus of Solar Energy, Institute of Chemistry, The Hebrew University of Jerusalem, E. Safra Campus, Givat Ram, 91904 Jerusalem, Israel. In 1993 she received an Honorary degree – Doctor Honoris Causa from the University of Lyon, France. In 1993 she was awarded the Medal for scientific achievement of Mayor Lyon, France. In 1998 she received an Honorary degree – Doctor Honoris Causa from the University of Bucharest, Romania. In 2005 she received an Honorary degree – Professor Honoris



Causa from the Polish Academy of Science, Wrocław, Poland. In 2010 she was awarded the Gold Medal of the University of Wrocław, Poland.

Prof. Petros Ioannou

—Ph.D., A.V. ‘Bal’ Balakrishnan Chair
 —University of Southern California, Los Angeles, USA



Petros A. Ioannou received a B.Sc. degree with First Class Honors from University College, London, England, in 1978, and the M.S. and Ph.D. degrees from the University of Illinois, Urbana, Illinois, in 1980 and 1982, respectively. In 1982,

Dr. Ioannou joined the Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, California. He is currently a Professor in the same Department and holds the A.V. ‘Bal’ Balakrishnan Chair. He is the Director of the Center of Advanced Transportation Technologies and Associate Director for Research of METRANS, a University Transportation Center. He also holds a courtesy appointment with the Department

of Aerospace and Mechanical Engineering and the Department of Industrial Engineering. Dr. Ioannou was the recipient of the Outstanding Transactions Paper Award by the IEEE Control System Society in 1984 and the recipient of a 1985 Presidential Young Investigator Award for his research in Adaptive Control. In 2009 he received the IEEE ITSS Outstanding ITS Application Award and the IET Heaviside Medal for Achievement in Control by the Institution of Engineering and Technology (former IEE). In 2012 he received the IEEE ITSS Outstanding ITS Research Award and in 2015 the 2016 IEEE Transportation Technologies Award. Dr. Ioannou is a Fellow of IEEE, Fellow of International Federation of Automatic Control (IFAC), Fellow of the Institution of Engineering and Technology (IET), Fellow of AAAS and the author/co-author of 8 books and over 400 research papers in the area of controls, vehicle dynamics and control, and intelligent transportation systems

Prof. Cristina Botella

—Clinical Psychology, Universitat Jaume I, Instituto Salud Carlos III, Spain

Dr. Cristina Botella is a Full Professor of Clinical Psychology at Jaume I University (Spain) since 1992. Her main line of research is the psychopathology and treatment of various psychological disorders, and the use of ICTs to promote health and wellbeing.



She has been principal investigator in more than 50 research projects, and she has published over 300 papers in national and international journals. Prof. Botella is funder and director of the Psychology and Technology Laboratory, LabPsiTec, (www.labpsitec.es) which is pioneering the worldwide adaptation of various applications based on ICTs including treatment of various psychological disorders using Virtual Reality, Augmented Reality and the

Internet. Dr. Botella is part of the Editorial Board of more than 20 scientific journals and serves as a referee for more than 40 international scientific organizations.

Speech Title: Using ICT devices for improving the Clinical Psychology field Cristina Botella Ph.D. UniversitatJaume I (Spain)

Abstract: At the moment, it is possible to state that the use of different ICT tools in the field of Clinical Psychology is already well established. Several reviews and meta-analyses have shown that Virtual Reality techniques have proven to be effective in improving psychological treatments. The same can be said about Internet-based CBT treatment programs, numerous meta-analyses have supported their effectiveness. Each of these approaches has a number of advantages and disadvantages; however, they are two completely separate areas of work. This talk will analyze the challenges and opportunities offered by each of these research fields with respect to Clinical Psychology and will argue for the urgent need to converge.

Dr. Jiafan ZHANG

—Research team in China, Robotics and Discrete Automation, ABB



Dr. Jiafan Zhang received the B.S degree in mechanical engineering and automation from Shanghai Jiaotong University in 2003 and Ph.D degree in mechanical engineering and automation from Zhejiang University in 2009. After that, he joined

ABB China Robotic R&D Center, with extensive experience in world-class product development. He is currently the research team manager with ABB Robotics and Discrete Automation. His main research interest includes fundamental and enabler technology for industrial robot design, reliability, and new applications.

Speech Title: Industrial robots in new applications: chances and challenges

Abstract:

Industrial robots have been widely used in many industries, such as automotive, electronics, and so on, in the past decades. With the automatic and digital wave, there are increasing needs of industrial robots to be used in many new and higher demanded applications. In this opening speech, after a brief looking-back of the industrial robots history and current status, recent development of the industrial robots are shared. The leveraging of edge-cutting technologies in sensing, machine learning, gripping enables the industrial robots for new high demanded applications. But it is not the end of the story. Further understanding and development are needed for the remaining challenges.

Conference Venues



Newcastle University (formally the University of Newcastle upon Tyne) is a public research university in Newcastle upon Tyne in the North East of England. The university is a red brick university and is a member of the Russell Group, an association of prestigious research-intensive UK universities.



Newcastle University

—*Newcastle upon Tyne, the UK*



In Newcastle University, Teaching and research are delivered in 24 academic schools and 40 research institutes and research centres, spread across three Faculties: the Faculty of Humanities and Social Sciences; the Faculty of Medical Sciences; and the Faculty of Science, Agriculture and Engineering. The university offers around 175 full-time undergraduate degree programmes in a wide range of subject areas spanning arts, sciences, engineering and medicine, together with approximately 340 postgraduate taught and research programmes across a range of disciplines. Newcastle University has also been awarded a Gold in Teaching by the Teaching Excellence Framework (TEF), one of ten Russell Group universities to achieve Gold TEF rating.



Newcastle
Newcastle University
Newcastle upon Tyne
NE1 7RU

University of Nevada, Las Vegas

—*Las Vegas, USA*

The University of Nevada, Las Vegas (UNLV) is a public land-grant research university in Paradise, Nevada. The 332-acre (134 ha) campus is about 1.6 mi (2.6 km) east of the Las Vegas Strip. It was formerly part of the University of Nevada from 1957 to 1969. It includes the Shadow Lane Campus, just east of the University Medical Center of Southern Nevada, which houses both School of Medicine and School of Dental Medicine. UNLV's law school, the William S. Boyd School of Law, is the only law school in the state.



It is classified among "R1: Doctoral Universities – Very high research activity". According to the National Science Foundation, UNLV spent \$83 million on research and development in 2018, ranking it 165th in the nation.

UNLV has created one of the most affirmative and dynamic academic environments in the country, earning the title of one of the most diverse universities for undergraduates by U.S. News & World Report. Everyone's experience at UNLV is different from the next, but through our diversity and academic environment, we make sure everyone has the opportunity to succeed.

University of British Columbia

—*Vancouver, Canada*

The University of British Columbia (UBC) is a public research university with campuses in Vancouver and Kelowna, British Columbia. The university ranks among the top three universities in Canada. With an annual research budget of \$600 million, UBC funds over 8,000 projects a year.



The Vancouver campus is situated in the University Endowment Lands, about 10 km (6 mi) west of Downtown Vancouver. UBC is home to TRIUMF, Canada's national laboratory for particle and nuclear physics, which houses the world's largest cyclotron. In addition to the Peter Wall Institute for Advanced Studies and Stuart Blusson Quantum Matter Institute, UBC and the Max Planck Society collectively established the first Max Planck Institute in North America, specializing in quantum materials. One of the largest research libraries in Canada, the UBC Library system has over 9.9 million volumes among its 21 branches. The Okanagan campus, acquired in 2005, is located in Kelowna, British Columbia.

Upcoming Conferences

Call for paper

► **September 13-15, 2020 — Prague, Czech Republic**

2020 3rd International Joint Conference on Clean Energy and Smart Grid

CCESG 2020 welcomes researchers, engineers, scientists and industry professionals to an open forum where advances in the field of Clean Energy and Smart Grid can be shared and examined. The conference is an ideal platform for keeping up with advances and changes to a consistently morphing field. Leading researchers and industry experts from around the globe will be presenting the latest studies through papers and oral presentations.

CCESG is organized by IASSED and technical supported by Chiang Mai University and so on.

History & Best Awards

The 2nd CCESG has been successfully held in Phuket, Thailand on Jan.18-20, 2019.

The 1st CCESG has been held successfully at Asian Institute of Technology, Bangkok, Thailand on Feb. 24-26, 2018.



CCESG 2018—Best Paper



CCESG 2019—Best Paper

All accepted papers will be published in the digital conference proceedings which will send to be Indexed by all major citation databases such as Ei Compendex, SCOPUS, CPCI, Google Scholar, Cambridge Scientific Abstracts (CSA), Inspec, SCImago Journal & Country Rank (SJR), EBSCO, CrossRef, Thomson Reuters (WoS), etc.

A selection of papers will be chosen to be published in journals.

Publication



▶ **October 19-21, 2020** — **Madrid, Spain**

2020 4th International Conference on SmartRail, Traffic and Transportation Engineering

The mission of ICSTTE 2020 is to promote progress in the field of SmartRail, Traffic and Transportation Engineering by hosting a global forum aimed at facilitating discourse and the exchange of ideas among the world's top innovators, scientists, academics, researchers and thought leaders in the field. Over the three days of this conference, you'll have an opportunity to hear about the latest developments and changes in an incredibly exciting field. ICSTTE is organized by IASED.



History & Best Awards

The 3rd ICSTTE has been successfully held in Jeju Island, South Korea on 18-20, October 2019.
The 2nd ICSTTE has been successfully held in Seoul, South Korea on 26-28, October 2018.
The 1st ICSTTE has been successfully held in Hong Kong on 15-18, December 2017.



▶ **December 9-11, 2020** — **Bangkok, Thailand**

2020 4th International Conference on Vision, Image and Signal Processing

ICVISP 2020 welcomes researchers, engineers, scientists, and industry professionals to an open forum where advances in the field of Vision, Image and Signal Processing can be shared and examined. The conference is an ideal platform for keeping up with advances and changes to a consistently morphing field.



History & Publication

ICVISP 2019	ICVISP 2018	ICVISP 2017
<p>ICVISP 2019 has been successfully held at The University of British Columbia, Vancouver Campus, Canada on 26-28 August 2019. Accepted papers of ICVISP 2019 has been published in ACM digital conference proceeding and indexed by EI Compendex and Scopus.</p>	<p>ICVISP 2018 has been held at University of Nevada, Las Vegas, USA during August 27-29, 2018. ICVISP 2018 has been indexed by EI Compendex.</p>	<p>ICVISP 2017 has been held in Osaka, Japan successfully from 22-24 September. The proceeding of the ICVISP 2017 has been included in the IEEE digital library</p>

March 25-27, 2021 — Shenzhen, China

2021 International Conference on Advanced Control, Automation and Robotics

The International Conference on Advanced Control, Automation, and Robotics (ICACAR 2021) aims to bring together researchers, engineers, scientists and industry professionals in the areas related to advanced control, automation and robotics in a single platform and to present their stimulating research and knowledge transfer ideas in both advanced control, automation, and robotics. Leading researchers and industry experts from around the globe will present the latest studies through oral or poster presentations. ICACAR 2021 welcomes new research in the areas of advanced control, automation, and robotics, such as intelligent control systems and optimization, robotics and automation, signal processing, sensors, systems modeling and control, industrial engineering, production, and management, artificial intelligence.

History & Best Awards



ICACAR 2020 has been held online successfully on 25-27, May 2020

Best Student Paper

Peng Guo---Shanghai Jiao Tong University, China

Title: Automatic profile tracking of deformed surface in mirror milling based on ultrasonic measurement



ICACAR 2019 was held in Phuket, Thailand during Jan. 18-20, 2019.

Best Paper(AR009)

Apicit Tantaworrasilp---University of Leeds, United Kingdom

Title: "Metamorphic Tensegrity Structure for Pipe Inspection".



ICACAR 2018 was held at Asian Institute of Technology, Bangkok, Thailand during Feb. 24-26, 2018.

Best Student Paper: AR012

Shih-Hau Fang---Yuan Ze University, Taiwan.

Title: Subcarrier Selection for Efficient CSI-based Indoor Localization