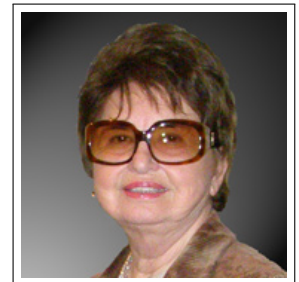


27 YEARS OF THE IWSSIP CONFERENCE

Prof. Emeritus Branka Zovko-Cihlar

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Biography. Branka Zovko-Cihlar was a full professor at the Department of Radiocommunications and Microwave Engineering, Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia. She received her B.Sc. and Ph.D. degrees in electrical engineering in 1959 and 1964, respectively. She is the author of the book “Noise in Radiocommunications” published in 1987, and the author of more than 216 papers published in international journals and conferences. She was the project leader of scientific projects: Research and development in radiocommunications, Research in new Croatian broadcast technology, Development in cable television services and multimedia communication systems. She was mentor of ten PhD thesis in Croatia and five in Slovenia, Slovakia and Bosnia and Herzegovina.

She is the President of Croatian Society Electronics in Marine - Elmar for 20 years. She is the General Co-Chair of International ELMAR Symposiums for 25 years. She is a member of ELMAR, IWSSIP and BIHTEL International Program Committee from 1991. She is a member of Croatian Academy of Engineering, a member of IEEE and a member of the Editorial Board of Journal of Electrical Engineering, Bratislava, Slovakia. From the year 2000 until 2004 she was the president of the Croatian Council for Radio and Television elected by the Parliament of the Republic of Croatia.

She received a Technology Award “Moć znanja” from the Croatian Academy of Engineering Foundation and “Golden plaque Josip Lončar” from the Faculty of Electrical Engineering and Computing, University of Zagreb.

INTRODUCTION

It is my great pleasure to be in contact with all dear participants to the 27th International Conference on Systems, Signals and Image Processing IWSSIP 2020, organized and hosted by the Institute of Computing at Fluminense Federal University - UFF (Niterói, Rio de Janeiro, Brazil).

As incorporated in its name, IWSSIP used to be a workshop, but it has evolved before 27 years, to a conference. The Program Committee has therefore decided to change its official designation considering historical values exhibited by this event.

IWSSIP HISTORY

IWSSIP was started in 1994 with Dr. Kalman Fazekas, Full Professor in Budapest, Hungary, and now 27 years after we can tell that he was the founder of IWSSIP. We can thank Professor Fazekas's vision and imagination that after so many years, we regularly meet every year and exchange our scientific and technological knowledge in theoretical experimental and applied development in signal processing techniques. Today we are very thankful to him, not only for broadening our technical expertise but also for acquiring several fields. Our annual meetings are concerned with our scientific progress, but above all, they are the meetings of close and dear friends.

IWSSIP ORGANIZATION

Every year the International Program Committee of IWSSIP invites outstanding experts from fields related to Systems, Signals and Image Processing to present results of the state-of-the-art in their research fields.

This year it was received thereabout 140 papers from many countries and after the reviewing process the International Review Committee of IWSSIP 2020 selected around 60 papers written by authors (including those for a special session on Smart City). The papers were focusing on image and video processing, signal processing in electronics, multimedia signal processing and analysis networks and communications.

It is my great pleasure to thank all the authors of submitted papers for the effort they made while preparing their contributions. I am sincerely grateful to reviewers for their vast contribution and help in the selection of the best papers which have been accepted for presentation at IWSSIP 2020.

GLOBAL HEALTH CRISIS

It is important to mention that we are now in the Digital Technology Age. Digital Age provides us with new solutions in radio communication and telecommunication field. Digital technology now helps us in the global health crisis by COVID-19. This is now the problem for the whole world. The traveling between continents and among countries is stopped. For this reason, problems happened with maintenance of conferences in each country.

The same problem happens with IWSSIP 2020 conference, because it was stopped with traveling from many countries to Brazil. The result was that participants of IWSSIP 2020, as I am, cannot be together at the same conference place in Niterói.

Due to coronavirus, it would be a real problem for the organization of IWSSIP 2020 without the use of digital internet video communication or virtual conference technology to present the results of the participant's scientific works.

DIGITAL AGE, SMART CITY

Transfer and processing of information growing requirements of modern computational facilities, stimulate the development of new intelligent, methods.

The concept of smart city becomes more popular in the scientific literature from the last two decades. Now IWSSIP 2020 conference involved special and challenging sessions for smart cities.

Especially urban spaces engage smart city solutions because it is a modern conception of Information and Communication Technologies (ICT). Urban utility performance such as energy, transportation, critical infrastructures reduce energy consumption, CO2 emissions and overall costs. Smart city optimizes existing infrastructures to make all that best for business models in private and public sectors.

On IWSSIP 2020, it will be demonstrated to research participant papers with proven solutions and work results. It is a special gain for this conference because, through applications, we relate the use of signal and image processing approaches to smart cities.

SIGHTS OF RIO DE JANEIRO, BRAZIL

I am happy remembering the last IWSSIP 2010 from 17 to 19 of June also organized by UFF, but in the city of Rio de Janeiro, where we had an excellent conference with scientific works, interesting excursion and nice social events.

This year the IWSSIP is in Niterói. For some time, the city of Niterói was the capital, the administrative center of Rio de Janeiro state. Now the state capital is the neighbor city of Rio de Janeiro¹.

Both cities lie in the Guanabara Bay in a landscape formed by green vegetation and several monolithic granite and quartz mountains, some very famous as the Sugar Loaf and Urca Hill Natural Monument.

The Art Deco statue of Jesus Christ in Rio de Janeiro is a protection symbol created by French sculptor Paul Landowski and built by Brazilian engineer Heitor da Silva Costa. In collaboration with the French engineer Albert Caquot. The Statue of Christ the Redeemer is situated on the top Corcovado Mountain, on the pedestal of 8 meters, with 30 meters high and the arms stretch 28 meters.

On 2nd July 2012, Christ the Redeemer statue and whole the Corcovado Mountain became part of New 7 Wonders of the World, being a heritage site declared by UNESCO.

Other famous and very nice places are the Sugar Loaf hill, Corcovado Mountain railway, Tijuca Forest, Rio-Niterói Bridge, Babilonia hill, Maracanã football stadium, Copacabana and Ipanema beach.



Christ the Redeemer

CONCLUSION

Investment in IWSSIP 2020 organization and modernization using new technological services for communication among all participants from keynote speakers, tutorial and presenters and attendees results of a big effort of professor Conci and their colleagues of the Institute of Computing at Fluminense Federal University (UFF) in Niterói, others partners and institution of Rio de Janeiro as well as others universities and laboratories of Brazil, Spain and Mexico.

I would like to thank them for their very high effort and contribution to the organization of IWSSIP 2020. Special gratitude goes to the Institute of Computing at Fluminense Federal University - UFF for their support and contribution to this conference because all of us are in a global health crisis.

¹Rio de Janeiro is the name of a town and the name of the state.