



UNIVERSIDAD  
DE MÁLAGA



MEHRAN UNIVERSITY  
OF ENGINEERING & TECHNOLOGY  
JAMSHORO, PAKISTAN



SIR SYED UNIVERSITY  
OF ENGINEERING & TECHNOLOGY  
KARACHI, PAKISTAN

## CALL FOR PAPERS

# Call For Papers

GCWOT'20 is an International forum for researchers to exchange information regarding novel aspects of technology, application and service development within the multidisciplinary framework of Wireless, Optical and Underwater Communications Technologies. GC-WOT'20 is being jointly organized by University of Malaga, Spain, Mehran University of Engineering & Technology (MUET), Jamshoro, Pakistan, Sir Syed University of Engineering & Technology (SSUET) Karachi, Pakistan and Riphah International University, Islamabad, Pakistan with technical cooperation and support from EU KA107 CAPRIO and ICM mobility projects as well as EU KA2 Capacity Building CENTRAL project.

GC-WOT aims to facilitate a creative environment for the promotion of collaboration and knowledge transfer. The conference program will consist of keynote speakers from both industry and academia, panel discussion and a multi-track technical program with possibility of submitting Special Sessions.

Authors are encouraged to submit full original papers in the English language and not considered for publications elsewhere. At least one author of each accepted paper MUST register and present the paper at the conference in order that the paper is to be included in the program. The program will also be submitted for inclusion in the IEEE Xplore. Further, extended version of high quality papers included in IEEE Xplore will be considered for publication in a special issue of Springer Journal "Wireless Personal Communications" subject to the theme of Special Issue.

### Areas of Interest:

We solicit papers addressing areas in, but not limited to:

Wireless Communications	Optical Communications	Underwater Communications
<ul style="list-style-type: none"> <li>❖ Signal processing</li> <li>❖ Energy efficiency and power management systems</li> <li>❖ Smart and mobile antennas</li> <li>❖ Circuits design for wireless systems</li> <li>❖ Wireless sensor networks</li> <li>❖ Access control mechanisms</li> <li>❖ Wireless Routing mechanisms</li> <li>❖ Wireless Security</li> </ul>	<ul style="list-style-type: none"> <li>❖ Optical signal processing</li> <li>❖ Optical sensors</li> <li>❖ Photonic communications systems</li> <li>❖ High-speed optical communications systems and devices</li> <li>❖ Optical amplifiers</li> <li>❖ Coding techniques</li> <li>❖ Optical networks</li> <li>❖ Novel implementations for receivers and transmitters</li> <li>❖ Industrial applications</li> </ul>	<ul style="list-style-type: none"> <li>❖ Acoustic &amp; Optical Networks</li> <li>❖ Efficient Access &amp; Routing protocols</li> <li>❖ SONAR systems</li> <li>❖ Navigation</li> <li>❖ Localization techniques</li> <li>❖ Signal processing</li> <li>❖ Applications &amp; Services</li> </ul>

Emerging Multi-topic Tracks		
Automated Systems	Networks	Cybersecurity
<ul style="list-style-type: none"> <li>❖ Embedded Systems</li> <li>❖ Robotics</li> <li>❖ Mechatronics</li> <li>❖ Model Checking</li> <li>❖ Model-based diagnosis</li> <li>❖ Software Engineering</li> </ul>	<ul style="list-style-type: none"> <li>❖ Social networking</li> <li>❖ Wired Networks</li> <li>❖ Software Defined Networks</li> <li>❖ Simulation and Modelling</li> <li>❖ Internet of Things</li> <li>❖ Computer Systems</li> </ul>	<ul style="list-style-type: none"> <li>❖ Security, privacy and trust</li> <li>❖ Service-oriented computing</li> <li>❖ Cyber Physical Systems</li> <li>❖ Information Systems</li> <li>❖ Spatial and temporal databases</li> </ul>
Distributed Systems	Grids	Adaptive Systems
<ul style="list-style-type: none"> <li>❖ Cloud Computing and Emerging Web technologies</li> <li>❖ Grid Computing</li> <li>❖ Multimedia information systems</li> <li>❖ Autonomous/Multi-agent Systems</li> </ul>	<ul style="list-style-type: none"> <li>❖ Power Electronics</li> <li>❖ Energy Management</li> <li>❖ Smart Grid</li> <li>❖ Electronic Systems and Devices</li> <li>❖ Smart Materials</li> <li>❖ Solid State Devices</li> </ul>	<ul style="list-style-type: none"> <li>❖ Machine Learning</li> <li>❖ Neural Networks</li> <li>❖ Computational Biology and Bioinformatics</li> <li>❖ Big Data Analytics</li> <li>❖ Human Computer Interaction</li> <li>❖ Heterogeneous systems</li> </ul>
5G Technology	Block Chain Technology	Molecular Communication
<ul style="list-style-type: none"> <li>❖ Cloud platforms to support 5G</li> <li>❖ Non-Standalone (NSA) connectivity's role in the current 5G infrastructure</li> <li>❖ 5G NR Stand-Alone (SA) for the future of network</li> </ul>	<ul style="list-style-type: none"> <li>❖ <b>Public blockchains</b></li> <li>❖ <b>Private blockchains</b></li> <li>❖ <b>Hybrid blockchains</b></li> <li>❖ <b>Blockchain and Internal Audit</b></li> <li>❖ <b>Cryptocurrencies</b></li> <li>❖ <b>Smart contracts</b></li> <li>❖ <b>Financial services</b></li> </ul>	<ul style="list-style-type: none"> <li>❖ Signal design, detection, estimation, and sensing</li> <li>❖ Modeling channels of free diffusion,</li> <li>❖ guided transport, microfluidic,</li> <li>❖ Molecular communication components</li> </ul>

#### PAPER SUBMISSIONS

Authors are encouraged to submit full original papers in the English language and not considered for publications elsewhere. All papers should be submitted as PDF through EasyChair <https://easychair.org/conferences/?conf=gcwoc20>. Papers should be written in English with a maximum paper length of eight (8) printed pages.

Full details of submission procedures and other additional information are available at <http://eventos.uma.es/go/GCWOC2020>

At least one author of each accepted paper MUST register and present the paper at the conference in order that the paper is to be included in the program. The program will also be submitted for inclusion in the IEEE Xplore. Further, extended version of high quality papers included in IEEE Xplore will be considered for publication in a special issue of Springer Journal "Wireless Personal Communications".

#### IMPORTANT DATES

- **Full Paper submission:** January 25<sup>th</sup>, 2020
- **Submissions for Special Sessions:** January 25<sup>th</sup>, 2020
- **Paper acceptance notification:** February 3<sup>rd</sup>, 2020
- **Camera-ready manuscript:** February 24<sup>th</sup>, 2020

- **Conference dates:**

**March 30<sup>th</sup> – April 1<sup>st</sup>, 2020**



### **VENUE: MALAGA A CITY OF HISTORY, MODERN CULTURE AND FUN**

Malaga, capital of the province of the same name, is the fifth most populated city in Spain. It is located in the south of the Iberian Peninsula, in a privileged spot. The city has a population of 560,000 inhabitants, although almost a million people live in the metropolitan area. The Mediterranean Sea bathes the Malaga coastline, providing the characteristically mild temperatures of the area. The average temperatures fall between a maximum of 23° C and a minimum of 14° C.

Malaga has a natural heritage of great environmental wealth. The natural setting of the estuary of the Guadalhorce is a stopping point for hundreds of migratory species and is noted for its great ecological value.

Admire buildings of different ages and be enthralled by the stories that the city can tell. The Roman Theatre and garum (Roman fish paste) pools will take you to the times of Roman Hispania. The Alcazaba is the most beautiful living example of the period of Muslim domination. Experience the reconquest (La Reconquista) by the Catholic Monarchs from the Santuario de la Victoria (the Shrine of Victory). Visit the Cathedral and see real works of art.

Malaga is also keen on modern culture and art. Home town of Pablo Picasso, Malaga hosts two museums devoted to the work and influences of one of the most influencing modern painters.

### **ORGANIZATION COMMITTEE**

#### **Conference Chairs**

Dr. Pablo Otero, University of Malaga, Spain

Dr. B.S.Chowdhry, MUET/Lead Person

Erasmus+ projects MUET

#### **TPC Chairs**

Dr. Enrique Nava, University of Malaga, Spain

Dr. Muhammad Aamir, Sir Syed University of Engineering Technology, PK

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