

IEEE

TENSYP 2020

<  05-07 June, 2020

IEEE TENSYP 2020

Technology for Impactful Sustainable Development

5th to 7th June 2020

Event Venue: Virtual (Zoom)

Hosting Section: IEEE Bangladesh Section

Dr. Celia Shahnaz , General Chair for TENSYP 2020

Inauguration Ceremony



Closing Ceremony



Conference Schedule

- Web Link: http://tensymp2020.com/important_dates.php
- Submission of Regular/SS Papers: March 15, 2020
- Notification of Acceptance: April 28, 2020
- Camera Ready Submission: May 15, 2020
- Author Registration: May 15, 2020

Conference Paper Statistics

- 1,030 valid papers received [2,308 authors, 19 countries, 201 international papers]
- 2,365 double blind reviews from 293 reviewers from 18 countries
- 446 papers were accepted and registered (43%) [102 international papers, 17 countries]

Conference Delegates Statistics

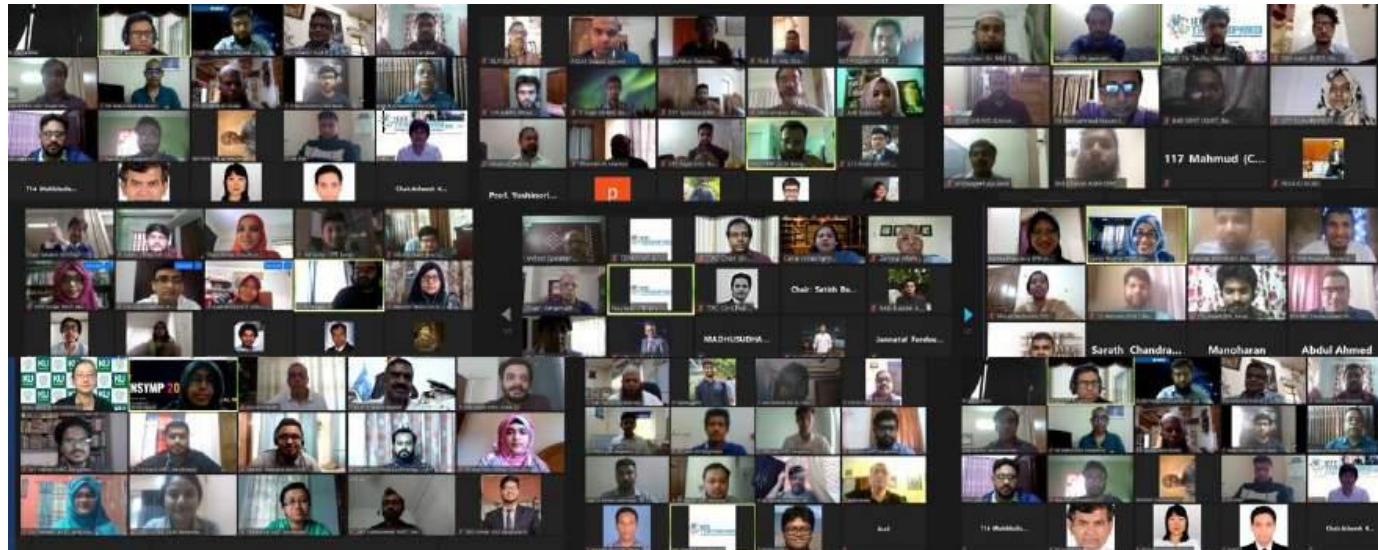
Country	No. of Papers
Bangladesh	344
India	58
Malaysia	2
Australia	5
USA	11
Philippines	1
South Korea	3
Japan	2
Germany	1
Canada	2
Mongolia	4
Columbia	3
China	2
Brunei	2
Indonesia	3
Scotland	1
Srilanka	1
Taiwan	1

Technical Sessions

- **Program Schedule:** <http://tensymp2020.com/schedule.php>
- 71 parallel technical sessions in 12 technical tracks
- 134 Session Chairs from 14 countries.
Details available in http://tensymp2020.com/session_chairs.php
- 44 Keynote/Invited talks from 16 countries
- **6 special events:**
 - WIE & WePower
 - YP,
 - Industry-academia Collaboration
 - Humanitarian Technology
 - Students
 - IEEE SPS Meeting

Technical Sessions

- Best papers (from each track) were declared during the closing ceremony.
- Total participants present in three days: 1869 (unique IDs).



Glimpses of nine different virtual technical sessions

Keynote Speakers



Dr. Udaya K. Madawala
Fellow of IEEE



Dr. Gaurav Sharma
Fellow of IEEE



Dr. K.V.S. Hari
Fellow of IEEE



Dr. Seishi Takamura
Fellow of IEEE



Dr. Kazuhiro Kosuge
Fellow of IEEE



Dr. Saifur Rahman
Fellow of IEEE



Dr. Bozenna Pasik-Duncan
Life Fellow of IEEE



Dr. Muhammad Mustafa Hussain
Fellow of IEEE



Dr. SN Singh
Fellow of IEEE



Dr. Wing-Kin(Ken) Ma
Fellow of IEEE



Dr. Mohammad S. Alami
Fellow of IEEE

Keynote Details can be found here: <http://tensymp2020.com/speakers.php>

Keynote Speaker Details

- **Kazuhiro Kosuge, PhD**

Distinguished Professor, Department of Robotics, Graduate School of Engineering, Tohoku University, Sendai, Japan.

2020 Vice President for Technical Activities, IEEE; Fellow of IEEE.

- **Saifur Rahman, PhD**

Joseph Loring Professor & Director, Advanced Research Institute, Virginia Tech, USA.

Past Chair, IEEE Power and Energy Society(PES); Fellow of IEEE.

- **K.V.S HARI, PhD**

Professor, India Institute of Science(IISc) Bangalore, India.

Vice President-Membership, IEEE Signal Processing Society; Fellow of IEEE.

- **Bozenna Pasik-Duncan, PhD**

Chancellors Club Teaching Professor; Professor of Mathematics

Courtesy Professor of AE & EECS; Life Fellow of IEEE & Fellow of IFAC

KU Women's Hall of Fame; Past Chair of IEEE WIE.

Keynote Speaker Details

- [Wing-Kin \(Ken\) Ma, PhD](#)

Professor, Department of Electronic Engineering, The Chinese University of Hong Kong, IEEE SPS Regional Director-at-Large of Region 10; Fellow of IEEE.

- [Mohammad S. Alam, PhD](#)

Professor and Dean, Frank H. Dotterweich College of Engineering, Texas A&M University - Kingsville, Texas, USA; Fellow of IEEE.

- [Udaya K. Madawala, PhD](#)

Professor, Department of Electrical, Computer & Software Engineering, The University of Auckland, New Zealand; Fellow of IEEE.

- [Dr. Seishi Takamura](#)

Senior Distinguished Engineer, NTT Media Intelligence Laboratories, Japan; Fellow of IEEE.

Keynote Speaker Details

- **SN Singh, PhD**

Vice-Chancellor, Madan Mohan Malviya University of Technology, Gorakhpur
Professor (on leave) (Higher Academic Grade), Department of Electrical Engineering,
Indian Institute of Technology Kanpur, India.

- **Muhammad Mustafa Hussain, PhD**

Professor, Electrical Engineering, KAUST.
Professor, EECS, University of California Berkeley, USA; Fellow of IEEE

- **Gaurav Sharma, PhD**

Professor, Department of Electrical and Computer Engineering,
Department of Computer Science, University of Rochester.
Fellow of IEEE.

Invited Speakers



Dr. V R Singh,
LFIEE



Dr. Yoshinori Kuno



Dr. Norliza
Mohd Noor



Dr. Tetsuya
Shimamura



Prof Dr. Paul
Cunningham



Dr. Greg Adamson



Dr. Mohammad Faizal
Ahmad Fauzi



Dr. Akinori Ito



Dr. Charmayne
Mary Lee Hughes



Dr. Wisnu
Jatmiko



Dr. Amlan
Chakrabarti



Dr. Khan
A Wahid



Dr. Dominique
Duncan



Dr. Arokiaswami
Alphones



Dr. Mohammad
Arif Ul Alam

[Invited Talk Details Can be found here:http://tensymp2020.com/invited_talks.php](http://tensymp2020.com/invited_talks.php)

Invited Speaker Details

- [Dr V R Singh, LFIEEE](#)

National Physical Laboratory, New Delhi-110012, India, and
Director, PDMEI and Advisor, PDM University, Bahadurgarh (NC R-Delhi)

- [Yoshinori Kuno, PhD](#)

Professor, Saitama University, Japan, SMIEEE

- [Norliza Mohd Noor, PhD](#)

Professor, UTM Razak Faculty of Technology and
Informatics, Universiti Teknologi Malaysia (UTM), Kuala Lumpur Campus, Malaysia
SMIEEE

- [Tetsuya Shimamura, PhD](#)

Professor, Graduate School of Science and Engineering
Saitama University, Japan
SMIEEE

Invited Speaker Details

- [Prof Paul Cunningham, PhD](#)

Executive Director, IST-Africa Institute
Director-Elect, IEEE Division IV
Past President, IEEE SSIT
Past Chair, IEEE HAC
SMIEEE

- [Greg Adamson, PhD](#)

Associate Professor, Melbourne School of Engineering, University of Melbourne, Australia
Past President, IEEE Society on Social Implications of Technology(SSIT)
2020 Chair, IEEE Ethics and Member Conduct Committee
SMIEEE

- [Akinori Ito, PhD](#)

Professor, Graduate School of Engineering, Tohoku University.
SMIEEE

Invited Speaker Details

- [Charmayne Mary Lee Hughes, PhD](#)

Health Equity Institute Professor of Kinesiology, San Francisco State University, USA

- [Mohammad Faizal Ahmad Fauzi, PhD](#)

Associate Professor
Faculty of Engineering, Multimedia University, Malaysia

- [Wisnu Jatmiko, PhD](#)

Professor, Faculty of Computer Science, University of Indonesia, Indonesia

- [Amlan Chakrabarti, PhD](#)

Professor, A.K.Choudhury School of Information Technology, University of Calcutta, India

IEEE Computer Society Distinguished Lecturer;SMIEEE

- [Khan A Wahid, PhD](#)

Professor, Department of Electrical and Computer Engineering, University of Saskatchewan, Canada

SMIEEE

Invited Speaker Details

- [Dominique Duncan, PhD](#)

Assistant Professor of Neurology, Neuroscience, and Biomedical Engineering
Laboratory of Neuro Imaging
USC Stevens Neuroimaging and Informatics Institute
Keck School of Medicine of USC
University of Southern California

- [Arokiaswami Alphones, PhD](#)

Professor, School of Electrical and Electronic Engineering, Nanyang
Technological University, Singapore SMIEEE

- [Mohammad Arif UI Alam, PhD](#)

Assistant Professor, Computer Science,
University of Massachusetts Lowell, USA

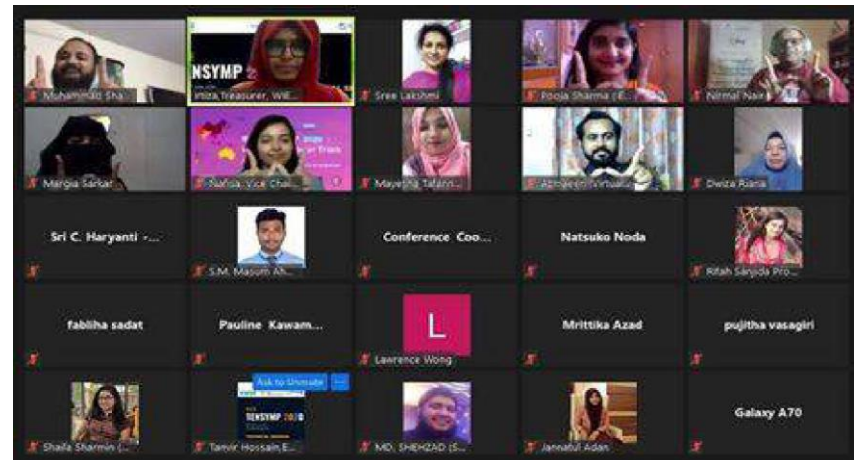
Parallel Tracks

WIE and WePower Track in TENSYP2020

<http://tensymp2020.com/wie & wePower track.php>

Speakers:

- Dr. Ramalatha Marimuthu, Prof, Dept. of ECE, KCT, India; IEEE WIE Chair (2011-2012)
- Dr. Ruomei Li, Chair of IEEE PES Women in Power
- Dr. Takako Hashimoto, Vice President of Chiba University of Commerce; IEEE WIE Chair (2015 -2016) & 2019-2020 IEEE Region 10 Secretary
- Emi Yano, Ricoh IT Solutions and 2019-2020 Chair of IEEE R10 WIE
- Dr. Celia Shahnaz, Chair, IEEE Bangladesh Section & Chair of IEEE R10 WIE 2016

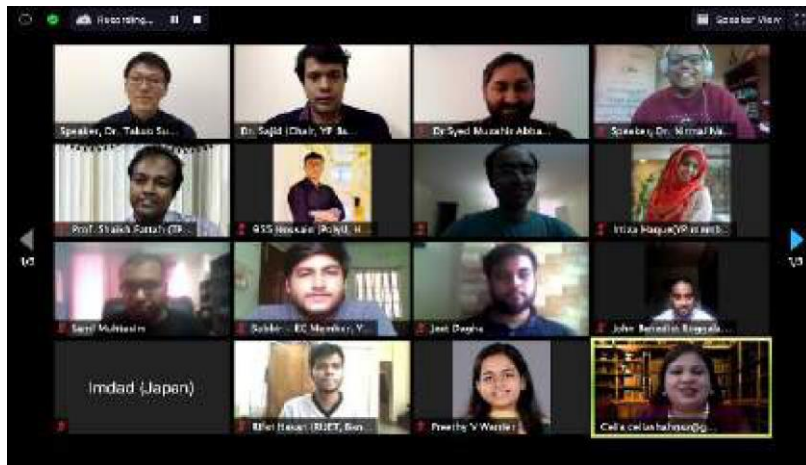


Parallel Tracks

Young Professionals (YP) Track in TENSYP2020
(http://tensymp2020.com/yp_track.php)

Speakers:

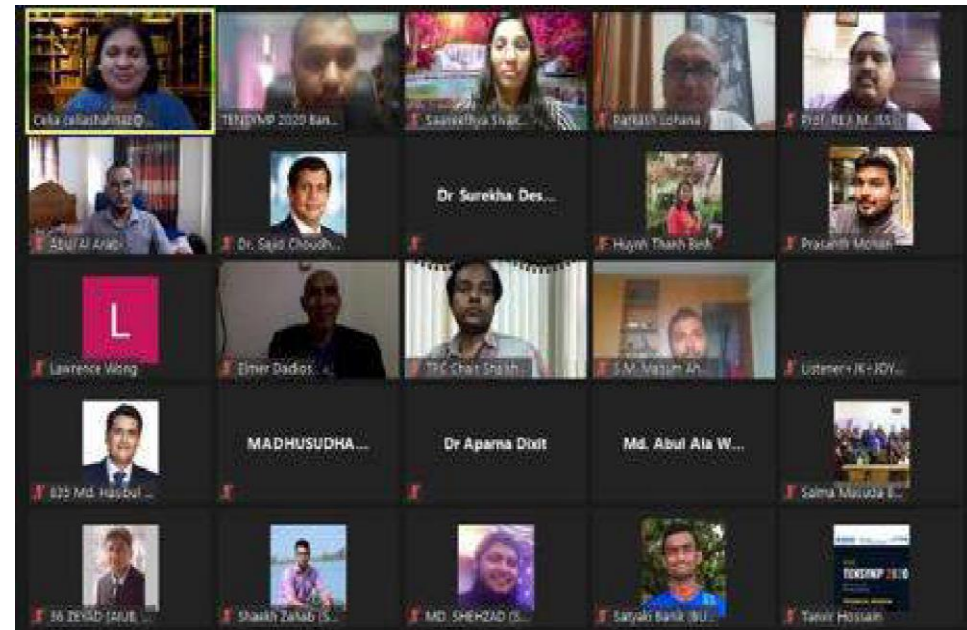
- Dr. Takuo Suzuki, Aichi Prefectural Univ., Japan & Chair, R10 YP Committee
- Dr. Nirmal Nair, University of Auckland, NZ & Chair, R10 Prof. Activities Committee



Student Activity Committee (SAC) Track in TENSYP2020 (<http://tensymp2020.com/wie> & [wePower track.php](http://tensymp2020.com/wePower))

Speakers:

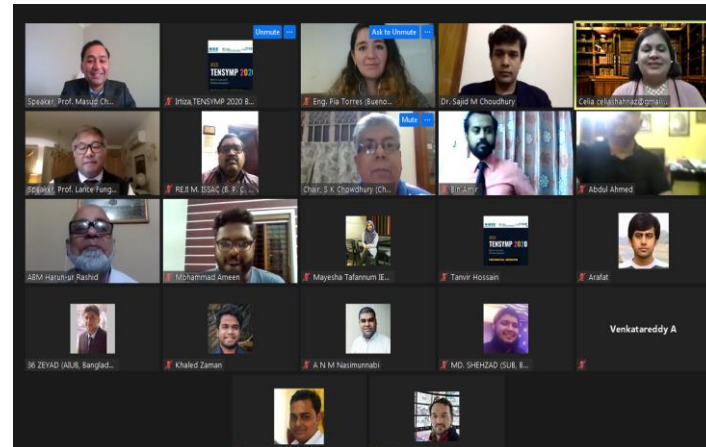
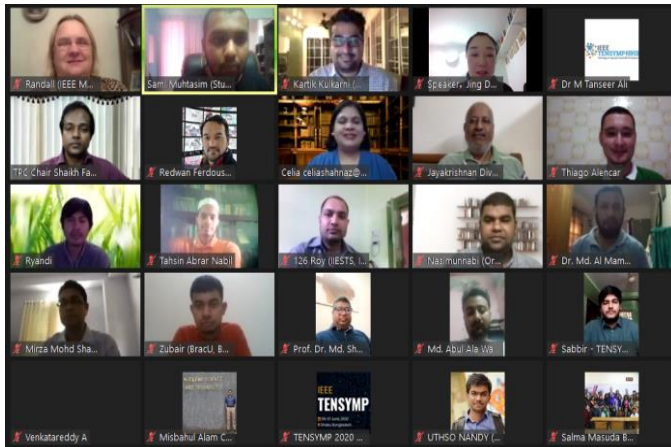
- Dr. Elmer P. Dadios, Chair, IEEE R10 Awards and Recognition Committee
- Dr. Huynh Thi Thanh Binh, Chair, IEEE R10 SAC
- Dr. Saaveethya Sivakumar, Student Representative, IEEE R10
- Parkash Lohana, Chair of IEEE R10 MD Committee



Humanitarian Activity Committee (HAC) Track in TENSYP2020 (http://tensymp2020.com/hac_track.php)

Speakers:

- Mary Ellen Randall, FIEEE, MGA Treasurer, MOVE Comm. Outreach Program Manager
- Kartik Kulkarni, Chair, IEEE Humanitarian Activities Committee
- Dr. Jing Dong, Assoc. Prof., NLPR, CASIA, China & Chair, R10 HTC



Industry Academia Collaboration Track in TENSYP2020 (http://tensymp2020.com/hac_track.php)

Speakers:

- Dr. Maud H. Chowdhury, Prof. & Assoc. Dean, CSEE, U of Missouri Kansas City, USA
- Pia Torres, Chair, YP Argentina, IEEE IAS Member-at-Large and DL
- Dr. Lance Chun Che Fung, Emeritus Professor, Murdoch Univ, Australia; Chair, R10 EAC

SPS Workshop/R10 Chapter Chairs' Meeting
(http://tensymp2020.com/sps_chapter.php)

Speakers:

- Dr. Wing-Kin(Ken) Ma, FIEEE, IEEE SPS Regional Director-at-Large for Region 10
- Dr. KVS Hari, FIEEE, Vice President - Membership, IEEE SPS Board of Governors
- Sampathkumar Veeraraghavan, SMIEEE, Chair, IEEE SIGHT
- Dr. Satyanaraya Bheesette, SMIEEE, Chair, IEEE Bombay SPS Chapter
- Dr. Sherry Randhwa, SMIEEE, IEEE SA Section
- Dr. Celia Shahnaz, SMIEEE, Chair, IEEE SPS Bangladesh Chapter

Tutorial on “[Machine Learning - Industry Perspective & Applications](http://tensymp2020.com/track_tutorial.php)”
(http://tensymp2020.com/track_tutorial.php)

Speaker/Instructor:

Snehasis Banerjee, Scientist, TCS Research

Registrant Category

- Total number of IEEE Members:
- Total number of non-IEEE Members:
- Total number of IEEE Student Members
- **** Although there were 10 categories for registration, we have provided discount on registration fees to many authors due to COVID19. So, it is not possible for perfectly categories the registrants. Thus, only the Total Registrants were counted: 464

Conference Financial Overview

- A. Expenses: 1708775.00 BDT or 20,103 USD
- B. Revenue: 2385255.00 BDT or 28,062 USD
- C. Surplus / Loss: 676480.00 BDT or 7959 USD Surplus

30% surplus (US\$2387.58) has been transferred to the R10

Sponsors

- IEEE Bangladesh Section
- IEEE Region 10

Conference Organizing Committee

General Chair

Dr. Celia Shahnaz

Professor, Dept. of EEE, Bangladesh
University of Engineering and
Technology

Technical Program Chair

Dr. Shaikh Anowarul Fattah

Professor, Dept. of EEE, Bangladesh
University of Engineering and Technology

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Professor, Dept. of CSE,
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Technical Program Co-Chair

Dr. Md Abdur Razzak

Professor, Dept. of EEE, Independent
University, Bangladesh

Technical Program Co-Chair

Dr. Md Kawsar Alam

Professor, Dept. of EEE,
Bangladesh University of
Engineering and Technology

Technical Program Co-Chair

Dr. Md Abdur Rahman

Professor, Dept. of EEE & CoE,
American International University-
Bangladesh

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Finance Chair

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Associate Professor, Dept. of EEE,
Bangladesh University of Engineering
and Technology

Conference Secretary & Virtual
Conference Management Chair

Raihan Ur Rashid

Spectrum Engineering
Consortium Ltd

Conference Secretary & Virtual
Conference Management Chair

S. M. Saiduzzaman

Lecturer, Dept. of EEE, Southeast
University

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Dipayan Saha

Assistant Engineer, Dhaka
Electric Supply Company Ltd.
(DESCO)

Conference Secretary

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University

Conference Secretary

Abdul Rakib Hossain

Lecturer, Dept. of EEE, Fareast
International University

Conference Secretary

Rifat Shahriar

Lecturer, Dept. of CSE, University of
Information Technology and Sciences

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Virtual Conference Management
Chair

A.N.M. Nasimunnabi

Senior Manager, Shakti
Engineering Ltd

Virtual Conference Management
Chair

Sk. Azmaeen-Bin-Amir

Virtual Events Manager, IEEE
Bangladesh Section

Details can be found here: http://tensymp2020.com/organizing_committee.php

Glimpses of Tensymp 2020

Some memorable snippets from IEEE TENSYPMP 2020:

- Inauguration Ceremony: <http://tensymp2020.com/inauguration.php>
- Sessions: <http://tensymp2020.com/sessions.php>
- Committee & Speakers: <http://tensymp2020.com/committee & speakers.php>
- Closing and Award Ceremony: <http://tensymp2020.com/closing & award ceremony.php>

Virtual Conference Organizer's Panel (VCOP)



IEEE vTools **EVENTS**

VIRTUAL CONFERENCE ORGANIZERS' PANEL



VTOLS > SEARCH ABOUT CONTACT

To Explore the Challenges of Organizing a Full Virtual Technical Conference, IEEE Bangladesh Section presents Virtual Conference Organizers' Panel (VCOP 2020).

VIRTUAL CONFERENCE ORGANIZERS' PANEL

To Explore the Challenges of Organizing a Full Virtual Technical Conference

The VCOP 2020 will be the first virtual online panel in IEEE Region 10 (Asia Pacific) where all concerned stakeholders will share the expectations, challenges and possible solutions in a Full Virtual Technical Conference with respect to traditional face to face technical conferences.

This is an initiative inspired by the experience gathered in IEEE TENSIMP2020—the FIRST full virtual online flagship conference of IEEE Region 10.



Tensymp 2020 in July 2020 R10 Newsletter

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1. SPECIAL REPORTS

TENSYMP2020: The 1st Virtual Flagship Conference of Region 10

Shaikh Fattah, TPC Chair for TENSYPMP 2020 and Celia Shahnaz, General Chair for TENSYPMP 2020

TENSYMP2020, the first virtual flagship conference of IEEE Region 10 was successfully held from 5th to 7th June 2020. This article presents some facts and descriptions of the conference.

During the last phase of paper submission of TENSYPMP2020 in the first half of March 2020, the whole world was facing a global COVID19 pandemic. In every aspect of life, there was an unprecedented change that halted all of our regular activities in every corner of the world. The fate of TENSYPMP2020 became uncertain. The



conference was scheduled to be held as a face-to-face conference at Pan Pacific Sonargaon Hotel, Dhaka, Bangladesh from 5th to 7th June 2020. But we, a very strongly motivated program committee, did not lose our hope. And behind us, we got tremendous support from our beloved technical communities. In spite of severe obstacles as a result of the Corona crisis, we received 1,030 valid submissions in 12 technical tracks involving 2,308 authors from 19 countries. These included 201 international papers. The magnitude of this massive enthusiastic submission from diversified geolocations is a clear indication of the preference of TENSYPMP as a brand, as well as its 2020 organizers, namely IEEE Bangladesh Section and IEEE Region 10.

How to Make a Virtual Conference Like a Face-to-Face Conference?

Written by: Shaikh A. Fattah, Technical Program Chair, IEEE TENSYPMP2020

Organizing a full virtual conference is a very difficult task but it is very much essential nowadays considering the global COVID-19 pandemic. I had the opportunity to join some recent virtual technical conferences. Moreover, as Technical Program Chair of IEEE TENSYPMP2020, I have gathered some real experience which has inspired me to share for the benefit of future conference organizers.

Two major aspects of a Face-to-Face (F2F) conference are publication and networking. If the objective of a conference is set in a way that it will keep the video presentations for some time to watch and an option for getting answers to questions via email, will you treat it as an equivalent to a face-to-face conference? It may be a temporary solution, especially during this global pandemic, but it cannot give a participant the feeling of a F2F conference. Publishing articles along with video presentations and option for online discussion, is an established method of archival. However, in my opinion, if a conference cannot be delayed or postponed, it needs to be organized in such a way, that the participants can get the feel of an actual F2F conference. The term "virtual" clearly grows an expectation of "virtual reality", that is a simulated environment to give a feeling of a real F2F conference. In order to meet such expectations, tremendous cooperation is required from organizers, authors, session chairs, presenters, speakers and guests/participants.

THANK
YOU