

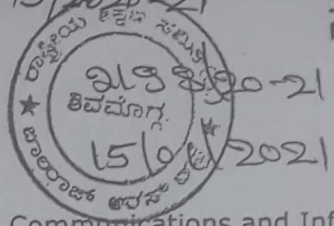


NO: NES/JNNCE/373/2020-21

12.1.2021
13

Submitted to Secretary NES:

Through: The Principal JNNCE



Sub: International Conference on Multimedia Processing, Communications and Information Technology during Dec 11-12 2020

With reference to the above subject we wish to bring to your kind notice that, the Department of E&C and IEEE students branch, JNNCE has jointly organized an **International Conference on Multimedia Processing, Communications and Information Technology during Dec 11-12, 2020**, in association with in association with IEEE Bangalore Section. Because of the current COVID 19 pandemic situation the conference was conducted online. We are happy to place it on record that this is the first IEEE conference organized by the Institute.

We are happy to state that 42 papers were registered & presented and we have received funding of Rs. 30,000/- and Rs. 50,000/- from DRDO, New Delhi and CSIR, New Delhi.

We had taken approval for the budget, where the expenditure indicated was Rs. 2,80,000/- and the income expected was Rs. 2,30,000/-. So, we had requested a financial assistance of Rs.50,000/- from the institution and it was approved (Copy attached).

The revised budget after the event is prepared and attached herewith. The actual expenditure is Rs. 2,55,970/- and the funds generated is Rs.2,89,000/-. So, we will not be using any amount from the institution. But, as we have received the funding from Govt. agencies we have shown the other expenditure of Rs. 55,000/- and hence the expenditure is indicated as Rs. 3,10,970/- in the final statement of expenditure.

The detailed statement of expenditure and income is enclosed herewith. We request you to kindly approve the same and oblige.

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21/01/2021

S. V. Sathy 12.1.2021

Dr. S. V. Sathyanarayana
 Professor & HoD
 Professor & Head
 Dept. of Electronics & Communication Engg.
 JNN College of Engineering
 SHIVAMOGGA-577 204

Principal
 Principal
 Jawaharlal Nehru New
 College of Engineering (JNNCE)
 Shivamogga.

APPD
 21/1
 Secretary
 National Education Society
 Shivamogga
 Approved

Secretary



National Education Society (R.)

**J N N College of Engineering
Shivamogga, Karnataka, India**



(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B Accredited by NAAC -'B', UG programs: CE,ME,EEE,ECE,
CSE, ISE, TCE accredited by NBA : 1.7.2019 to 30.6.2022, Recognized by Govt. of Karnataka and
Affiliated to VTU, Belagavi)

Internal Quality Assurance Cell

IEEE Third International Conference

on



**"Multimedia Processing, IEEE
Communications and Information
Technology"- MPCIT 2020**



Being organized by

**Department of
Electronics & Communication Engg.,
IEEE Student Branch, JNNCE, Shivamogga**

**Technical Cosponsors
IEEE Bangalore Chapter
ISTE, New Delhi
IETE, Shivamogga Centre**

on

11 - 12, Dec, 2020



About JNN College of Engineering (JNNCE)

In the year 1946, a dedicated group of philanthropists and freedom fighters established the National Education Society® (N.E.S.). It was the collective vision of these individuals that transformed the quality of education in the region. Today, the NES is known as a formidable achiever in the field of education, managing 39 educational institutions in various fields – Engineering, Pharmacy, Arts, Commerce, Education, Law, Applied Sciences, Management, and etc. In the year 1980, JNNCE was established by National Education Society®. The college has more than three decades of fruitful existence. The College is approved by Government of Karnataka and AICTE, affiliated to Visvesvaraya Technological University (VTU), Belagavi, Accredited by NAAC 'B' & Certified by UGC 2f & 12B and all the UG programs are accredited by NBA. A preferred destination of students seeking technical education, the institution offers BE degree in 7 branches namely Civil Engg., Mechanical Engg., Electrical & Electronics Engg., Electronics & Communication Engg., Computer Science & Engg., Information Science & Engg., Electronics and Telecommunication Engg., 2 PG Courses, namely M.Tech in Computer Science & Engg and Transportation Engg. & Management, MCA and MBA, besides M.Sc. (Engg.) and Ph.D. in seven disciplines. Spread over a sprawling campus of 39.4 acres having all amenities to cater to the needs of about 3000 students and 400 staff members, the institution is reputed for its high-caliber faculty, excellent infrastructure, academic environment and placement. Around 10000 graduates and post-graduates have so far passed out from this college and have been making significant contributions in academic institutions, industry R & D organizations and Government Departments in India and abroad. The institution has organized several conferences in the recent past.

For more details about the college, please log on to <http://www.jnnce.ac.in/>

About the Conference

IEEE International Conference on Multimedia Processing, Communication and Information Technology – MPCIT 2020, will be held during December 11-12, 2020 in JNN College of Engineering Shivamogga, Karnataka, India. MPCIT 2020 is to bring together innovative academics and industrial experts in the field of Electronics, Telecommunication, Computer Science, and Information Technology to a common forum.

The primary goal of the conference is to promote research and development activities in Multimedia Processing, Communication and Information Technology. Another goal is to promote scientific information interchange between researchers, developers, engineers, students and practitioners working in India and abroad. The conference will be an ideal platform for people to share views and experiences in Information, Telecommunication, Computing Techniques and related areas. The conference is aimed at providing a platform to all researchers to interact, share their research findings and to discuss their research ideas with the co-researchers from all over the world. It also provides an opportunity to highlight recent developments and to discuss future directions on these exciting fields.

There will be keynote lectures by experts in various fields, it will inspire the researchers and provide an exposure to various aspects and an opportunity for discussions with distinguished experts. It is earnestly hoped that the conference will be of great success in bringing more researchers together.

Researchers from various research laboratories, industries, academia and the research scholars pursuing their Doctoral / Masters works are invited to present their original work and participate in MPCIT 2020, a two day event in the academic and serene environs of JNNCE, Shivamogga.

The MPCIT 2020 conference is organized by Electronics & Communication Engineering department of JNNCE. English is the official language of the conference. We welcome paper submissions. Prospective authors are invited to submit full (and original research) papers, which is NOT submitted or published or under consideration anywhere in other conferences/journals, in electronic (PDF only) format through the Microsoft Conference Management System Website.

For more details visit the conference website <http://jnnce.ac.in/mpcit2020/>

CONFERENCE COMMITTEES

Patrons

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Sri. T.R. AshwathnarayanaSetty, Vice President, National Education Society
Sri. S. N. Nagaraja, Secretary, National Education Society, Shivamogga
Sri. D.R. Amarendra Kireeti, Joint-Secretary, National Education Society, Shivamogga
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Dr. H. R. Mahadevaswamy, Principal, JNNCE, Shivamogga

General Chair

Dr. S. V. Sathyanarayana, HoD ECE, JNNCE, Shivamogga

Publication Chairs

Dr. P. Manjunatha, Dean Academics, JNNCE, Shivamogga

Dr. Niranjana U C, Chairman, IEEE, Mangalore Subsection

Technical Chair

Dr. Snehasu Saha, Professor, BITS PILANI, Past Chair, IEEE Computer Society Bangalore Chapter

Finance Chairs

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Dr. S. Pramod Kumar, Associate Professor, ECE, JNNCE, Shivamogga

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Mr. Pratapsinh K Desai, President, ISTE, New Delhi.

Call for Papers

MPCIT 2020 is an international conference where theory, practices, and applications of Multimedia Processing, Communication and Information Technology and related topics are presented and discussed. Original contributions are solicited on topics covered under broad areas such as (but not limited to):

Multimedia Processing

Multimedia Communication and Networking, Multimedia Systems, applications and services, Next generation communications, Multimedia and Networking Systems, Media generation and integration, Multimedia analysis and understanding, Multimedia security, Signal Processing theory and applications, Image Processing, 3D Point Cloud Processing, Video Processing and related topics

Communications

Data Communications, Data Compression, Data Encryption, Information Theory Coding and Modulation, Spread Spectrum, Sustainable wireless communications, Mobile and cellular communications, MIMO and space time communications, Cooperative relay communications, Cognitive science, Wireless communications and networking, Microwave circuits and systems, Antennas and propagation, Array Signal Processing, Software Radio, EMI/EMC, 5G Wireless Communication, other topics in Communications

Information Technology

Broadband & Intelligent Networks, Computational Intelligence, Data Base Management, Data mining and Data fusion, Artificial Intelligence & Machine Learning, Data Science & Data Analytics, E-Commerce & E-Government, E-Health & Biomedical applications, E-Learning & E-Business, Fuzzy, ANN & Expert Approaches, Grid and Cluster Computing, ICT & Banking, Software Engineering and Formal Methods, Systems & Software Engineering, Web Engineering, Internet applications & performances, Knowledge Based Systems and Other topics in Information Technology

Prospective authors are invited to submit full (and original research) papers (which is NOT submitted/published/under consideration anywhere in other conferences/journals) in electronic (PDF only) format through the Microsoft Conference Management System Website. All accepted and presented papers will be submitted for the possible inclusion in IEEE Xplore digital library

Important Dates

Date of Paper Submission: October 26, 2020 - November 10, 2020
Paper Acceptance Notification: November 06, 2020 - November 16, 2020
Camera Ready Paper Submission: November 16, 2020 - November 20, 2020
Paper Registration: November 30, 2020
Additional Co-author/Non-Author registration: December 06, 2020
Conference Date: December 11-12, 2020

Conference Venue

The MPCIT 2020 international conference is scheduled to conduct through online by J N N College of Engineering, Shivamogga, Karnataka, India

About Shivamogga

Shivamogga is District in the central part of the state of Karnataka, India. It lies on the banks of the Tunga river and is the administrative headquarters of the district. According to the Shivamogga City Municipal Corporation, the city has a total area of about 50 km². The climate is tropical wet and dry summer average temperature 20–35 °C (68–95 °F). Shivamogga is a part of a region known as Malnad (land of hills) in Karnataka. Most of these hills are part of the Western Ghats, a region known for plentiful rainfall and lush greenery and declared as a World Heritage site by UNESCO.

Registration

Once your paper is accepted the registration phase begins. It is mandatory for at least one author of an accepted paper to register in order for the paper to appear in the proceedings and be included in the technical program. If an author has got more than one accepted papers, each paper has to be registered. Registration fee includes proceedings, publication in Institute of Electrical and Electronics Engineers (IEEE).

Item	For authors from Host Country	Foreign Authors
Author Registration Fees	Rs. 6000/-	USD 100
For IEEE Members	Rs. 4500/-	USD 75
Extra page charge (per Page)	Rs. 500/-	USD 10
Attendee	Rs. 1000/-	USD 20

Paper Submission

All full papers submitted will be subjected to a review process through double blind review process. Comments of the reviewers will be directed to the authors prior to the Camera Ready Paper Submission deadline. Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. All submissions will be thoroughly peer-reviewed by experts based on originality, significance and innovative ideas. Only papers presenting novel research results or successful innovative applications will be considered for publication in the conference proceedings. Kindly ensure that your paper is formatted as per IEEE Template (not exceeding 8 pages written in A4 size). The papers can be submitted through Microsoft Conference Paper Submission System. For paper submission visit the website <http://jnncce.ac.in/mpcit2020/>. For any queries one can write to mpcit2020@jnncce.ac.in.

For further details contact:

Dr. S. V. Sathyanarayana
E-mail: hod_ace@jnncce.ac.in
Cell No.: 9886494150

Ms. Prema K. N.
E-mail: premakn@jnncce.ac.in
Cell No.: 9277324422



Program Schedule

11.12.2020, Friday	
10.00 AM To 11.30 AM	Inauguration & Keynote address by Dr. Carlos A. Coello Coello, CINVSTAV-IPN Mexico
11.30 AM To 11.45 AM	Tea Break
11.45 AM To 12.30 PM	Invited Talk -1 Ujwal Nirgudkar, Member of Oscar Academy's Science & Technology Council and Chairman SMPTE-India Section
12.30PM To 1.30PM	Paper presentation 1
1.30PM – 2.30PM	Lunch
2.30PM – 3.15PM	Invited Talk -2 Dr. Sriparna Saha Indian Institute of Technology Patna, India
3.15PM – 3.30PM	Tea Break
3.30PM -4.30PM	Paper Presentation -2A & 2B
4.30PM – 5.30PM	Paper Presentation - 3
12.12.2020, Saturday	
10.00AM To 11.00AM	Paper Presentation -4
11.00 AM To 11.45AM	Invited Talk -3 Dr. Siwei Ma Peking University, Beijing, China.
11.45AM To 12.00PM	Tea Break
12.00 PM To 1.00PM	Paper Presentation -5A & 5B
1.00PM – 1.45PM	Lunch
1.45 PM To 2.30 PM	Invited Talk -4 Dr. Snehansu Saha BITS PILANI K K Birla Goa Campus
2.30PM – 3.15PM	Invited Talk -5 Dr. Santonu Sarkar ABB Corporation Research Bangalore
3.15PM – 3.30PM	Tea Break
3.30PM -4.30PM	Paper Presentation -6
4.30PM – 5.30PM	Valedictory Program



National Education Society (R.)
J N N College of Engineering, Shivamogga
Internal Quality Assurance Cell
Department of Electronics and Communication Engineering
in association with
IEEE students Branch, Shivamogga
IEEE Bangalore section



Inauguration of

**IEEE Third International Conference on
"Multimedia Processing, Communication and
Information Technology" – MPCIT 2020**

On 11.12.2020, Friday, 9.30 AM

Inauguration and Key-note address:

Dr. Carlos A. Coello Coello,
Professor of Computer Science, UNSW School of
Engineering & Information Technology &
CINVESTAV-IPN, Mexico

Guests of Honour:

Sri. A.S. Vishwanatha
President, National Education Society, Shivamogga

Sri. T.R. Ashwathanarayana Setty
Vice President, National Education Society, Shivamogga

Sri. S.N. Nagaraja
Secretary, National Education Society, Shivamogga

Sri. D.R. Amarendra Kiriti
Joint Secretary, National Education Society, Shivamogga

Sri. C.R. Nagaraj
Treasurer, National Education Society, Shivamogga

Presence:

Dr. M.M. Rajath Hegde
Dean-Infrastructure, JNNCE, Shivamogga

Presided By:

Dr. P. Manjunatha
Dean-Academics & Principal (I/C), JNNCE, Shivamogga

You are cordially invited by

HoD & staff, E&C Department

Office bearers IEEE Student Branch, JNNCE

Member of the Organizing Committee, MPCIT 2020



National Education Society (R.)
J N N College of Engineering, Shivamogga
Internal Quality Assurance Cell
Department of Electronics and Communication Engineering
In association with
IEEE students Branch, Shimoga
IEEE Bangalore section



Valedictory of

IEEE Third International Conference on
**"Multimedia Processing, Communication and
Information Technology" – MPCIT 2020**

On 12.12.2020, Saturday, 4.30 PM

Chief Guests:

Mr. Harish Mysore

Sr. Director - IEEE India Operations

Dr. Snehansu Saha

Professor CS&IS and Anuradha and
Prashanth Palakurthi Centre for Artificial Intelligence
Research (APPCAIR), BITS PILANI K K Birla Goa Campus

Guests of Honour:

Sri. S.N. Nagaraja

Secretary, National Education Society, Shivamogga

Presence:

Dr. M.M. Rajath Hegde

Dean-Infrastructure, JNNCE, Shivamogga

Presided By:

Dr. P. Manjunatha

Dean-Academics & Principal (I/C), JNNCE, Shivamogga

You are cordially invited by

HoD & staff, E&C Department

Office bearers IEEE Student Branch, JNNCE
Members Organizing Committee MPCIT 2020



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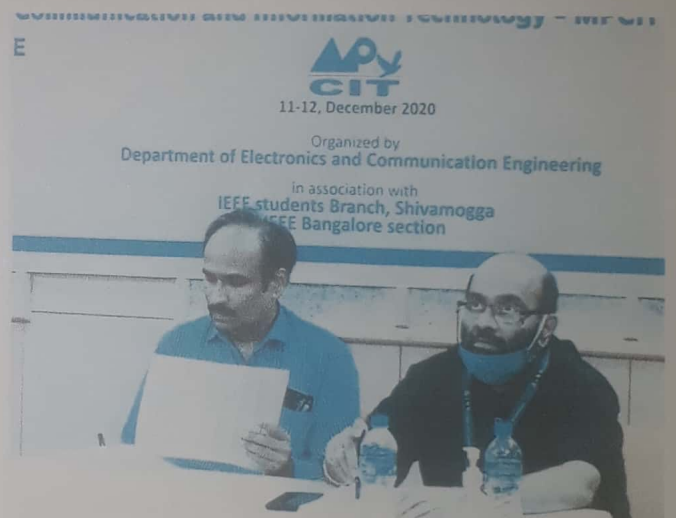
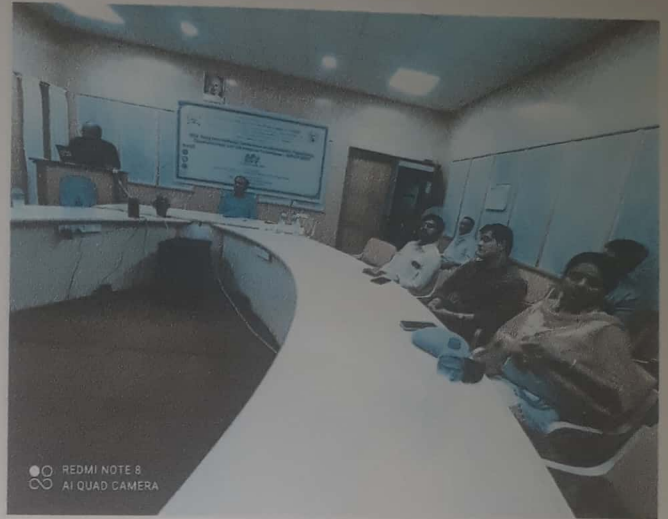
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Department of Electronics & Communication Engineering

International Conference on Multimedia Processing, Communication & Information Technology – MPCIT 2020



International Conference on Multimedia Processing, Communication & Information Technology – MPCIT 2020





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Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Department of Electronics & Communication Engineering

International Conference on Multimedia Processing, Communication & Information
Technology – MPCIT 2020

A Report on IEEE Third International Conference on Multimedia Processing & Information Technology MPCIT 2020

The Department of Electronics & Communication Engineering and IEEE Students branch, JNN College of Engineering in association with IEEE Bangalore Section, organized Virtual IEEE Third International Conference on Multimedia Processing & Information Technology - MPCIT 2020 during December 11-12, 2020.

In the last few years, multimedia processing has emerged as an important technology to generate contents based on images, audio, graphics, animation, full motion video and text. It has opened a wide range of applications by combining these different information sources, thus giving insights in the interpretation of the multimedia content. Lot of major research is taking place in the areas of Multimedia, Communication, Image Processing & Pattern Recognition, Artificial Intelligence & Machine Learning, Data Science & Cyber Security and Information Technology. The main intention is to provide a unique forum to present and publish papers dealing with the state-of-art technologies in Computer Science, Electrical and Electronics Engineering, that are dealing with novel approaches to model current and emerging technologies in all these Engineering fields are encouraged. The main objective of the conference was to provide a common platform to academicians, scientists, R & D professionals, Engineers from industries and research scholars for interaction and to discuss about the latest developments taking place in the field of Electronics & Communication Engineering. The proceedings of the conference were published in the form of a Book containing the details of our college, department, advisory committee, organizing committee, review committee, full text of all the registered papers. Also, the selected papers are published in the IEEE Xplore Digital Library. The response to the conference was overwhelming and a total of 98 papers were received from different parts of the country and state. After, review process, 55 papers were accepted, out of which 42 authors registered for the conference.

The conference was inaugurated on 11th Dec. 2020 virtually by Dr Carlos A Coello Coello Professor of Computer Science, UNSW School of Engineering & Information Technology & CINVESTV-IPN, Mexico in the presence of Sri. T R Ashwatha Narayana Shetty, Vice President, National Education Society, Sri S N Nagaraja, Secretary, National Education Society and Dr. M M Rajath Hegde, Dean Infrastructure, JNNCE, Shivamogga. The programme was presided by Dean Academics & In-charge Principal Dr. P Manjunatha. Mr. Sunil M D, Asst. Professor,

Re

E & C welcomed the gathering. Dr. S V Sathyanarayana, Professor & HoD, E & C and General Chair, MPCIT-2020 presented an insight of the conference and purpose. In the inaugural address, Dr Carlos A Coello Ccello highlighted the importance of conferences for students in an institution and advised the participants to utilize the conference for quality research. Sri T R Ashwathanarayana Setty in his speech appreciated efforts of E & C department hosting an International Conference and Sri S N Nagaraja in his speech quoted the use of multimedia in day to day transaction and the need to improve it. Dr. P Manjuinatha emphasized on the necessity of multimedia communication and processing in the present digital world. Ms. Prema K N, Asst. Professor, E & C proposed the vote of thanks.

The inaugural function was followed by Key note address by Dr Carlos A Coello Coello from Mexico on the topic An Overview of Evolutionary Multi-Objective Optimization. In his presentation he explained the importance of multi-objective optimization problems (MOPs), Notion of MOPs, Mathematical Programming Techniques, Evolutionary Algorithms and some sample applications of Multi objective optimization. There was good interaction by participants and the session was well appreciated by all the delegates connected online.

First day post tea session was an invited talk from Mr. Ujwal Nirgudkar, Member of Oscar Academy's Science & Technology Council and Chairman, SMPTE-India Section, Mumbai on Film Digital & Beyond. In his talk he presented the various development stages of Film Technology and the future trends of Digital Technology. His presentation was having all the historical data and research in the Film technology. Also, he dealt about the contribution of Oscar Academy in the Indian Cinema. This Session was followed by paper presentations from research scholars and PG students in which 5 papers were presented. These sessions were chaired by Dr. H V Balachandar, Professor, Dept. of E & C, SMVITM, Udupi and Dr. C S Mala, Professor & HOD, E & C Dept., BMSIT, Bangalore. Post lunch Session started with an invited talk by Dr. Sriparna Saha, Associate Professor in the Department of Computer Science and Engineering, Indian Institute of Technology Patna, India. She delivered a talk on Multimodal Summarization Techniques. Then the paper presentation session- 2 was held in two in which 10 papers were presented by the delegates. This was followed by another paper presentation session-3 in which 6 papers were presented by the delegates. In total 21 papers were presented in the first day by the delegates in different areas like IoT, Embedded systems, Image processing and Machine learning.

Second day sessions started at 9.30AM with paper presentation from research scholars and PG students. In this session-4, 5 papers were presented and the session was chaired by Dr. Ravi J, Associate Professor, GAT, Bangalore and Dr. A P Jagadishchandra, Professor, AIT, Chickmagalore. Later, second session at 10.30AM was an invited talk by Dr. Siwei Ma, Professor of Computer Science, The Institute of Digital Media, EECS, Peking University, Beijing, China on the topic IEEE 1857.10-The Third Generation IEEE 1857 Video Coding Standard. The talk began with the fundamentals of video coding standard followed by the conceptual

overview of "video coding" and various applications of IEEE 857 Video coding standard. Then the paper presentation session 5 was held in parallel where in total 11 papers were presented by the delegates. The talk was well appreciated by the delegates.

The post lunch session started with an invited talk by Dr. Snehanshu Saha, Senior Member-IEEE, Senior Member-ACM, Fellow-IETE CS & IS, Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR), BITS PILANI K K Birla, Goa Campus on the topic "From Small Data to Big Data: The Evolution of AI techniques". This was followed by one more invited talk delivered by Dr Santonu sarkar, Senior Principal Consultant, ABB Corporation Research, Bangalore on the topic Industry 4.0: Digital Twin Driven Modeling and Simulation of Industrial Cyber-physical Systems. Then there was paper presentation session 6 where 5 delegates presented their papers. On the 2nd day total 21 papers were presented on different areas like IoT, Embedded systems, Image and signal processing, Machine learning, Cryptography and Antennas.

After the tea break, for Valedictory program, Dr. Snehanshu Saha, Senior Member-IEEE and Mr. Harish Mysore, Senior Director, IEEE India Operations were the chief guests. Dr. P. Manjunatha, Dean Academics & In-charge Principal presided over the program and Dr. S. V. Sathyanarayana, General Chair-MPCIT were present. The following three papers were awarded as Best papers:

1. "CarBro (Personal Farm Assistant): An IoT based Smart Agriculture with Edge Computing" Atharv Tendulkar & Ramya S, MIT, Manipal
2. "Analyzing Big Data Originated from Data Communication Networks using K-Means Algorithm to Understand the Nature of Incoming Malicious Connections", Shyamasundar L B, V. Anil Kumar, Jhansi Rani Prathuri, CMRIT, Bangalore
3. "Realization Of Semicircular 2 Way Optimal Power Divider for GNSS", Basavaraju D R, Ravikumar S, Jain Deemed to be University, Bangalore

Feedback of the participants was taken and most of the participants appreciated the quality and content of invited talks and Time management of the conference managed online.

Several organizations like DRDO, New Delhi, CSIR New Delhi, ISTE, New Delhi & IETE, Shivamogga Centre have generously supported the conference financially and professionally and thereby contributed significantly to the publication of the proceedings. Their support is gratefully acknowledged. A list of our sponsors was displayed in the Seminar Hall during the Conference. In a nutshell, MPCIT 2020 was a memorable academic activity.



Dr. S V Sathyanarayana
General Chair, MPCIT 2020

Professor & Head
Dept. of Electronics & Communication Engg.
JNN College of Engineering
SHIVAMOGGA-577 204.