



TEQIP-3
Technical Education Quality Improvement Programme

**TEQIP-III SPONSORED
FIRST INTERNATIONAL CONFERENCE ON**

**INNOVATIONS AND CHALLENGES IN
COMPUTING, ANALYTICS AND SECURITY**

29th & 30th JULY, 2020



BOOK OF ABSTRACTS

Editors

K.Vivekanandan

P.Salini

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PONDICHERRY ENGINEERING COLLEGE

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P. Salini
M. Thenmozhi
R. Sarala
(Editors)

Book of Abstracts for

*TEQIP - III Sponsored First International
Conference on Innovations and Challenges in
Computing, Analytics and Security*

ICICCAS-2020 (29th – 30th July 2020)



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Note: This conference (ICICCAS-2020) was scheduled on 19th -20th March, 2020 however, due to COVID-19 pandemic the conference was rescheduled to 29th-30th July 2020 with virtual mode.



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About ICICCAS-2020

The International Conference on Innovations and Challenges in Computing, Analytics and Security (ICICCAS-2020) provided a platform for Researchers, Professionals, Students, and Academicians to gain an insight in the recent advances, new techniques and applications in the field of Computing, Data Analytics and Security. This Conference organized by the Department of Computer Science and Engineering, Pondicherry Engineering College was sponsored by TEQIP III NPIU (a Unit of the Ministry of Human Resource Development, India).

The Conference scheduled to be held on March 19th and 20th, 2020 was postponed as a measure to combat the threat of COVID-19. As concerns increased over the pandemic of COVID-19, the organizing committee has decided to move ICICCAS-2020 from a physical to VIRTUAL platform. The Conference was held on 29th and 30th of July, 2020 through Online. ICICCAS-2020 aimed to bring together theoreticians and experimentalists for discussing topics of current interest and providing a simulating environment for exchanging ideas on new developments in Computing, Data Analytics and Security. The conference covered a wide range of topics with a preeminent emphasis on seven main tracks of Data Science, Networking Technologies, Sequential, Parallel, Distributed and Cloud Computing, Advances in Software Engineering, Multimedia, Image Processing and Embedded Systems, Security and Privacy, along with a special track (IoT, Smart Technologies and Green Engineering).

The Technical and Advisory Committee comprised of experts from discrete regions with bountiful research and academic practice. All the accepted and registered manuscripts had their abstract being published in the “Book of Abstracts” with an ISBN and DOI and were included in the “CrossRef” Database. The extended version of the presented papers will be recommended by the Session Chair for publication in reputed Journals.

Chief Patron Message

It gives me immense pleasure that Department of Computer Science and Engineering, Pondicherry Engineering College is organizing an International Conference on Innovations and Challenges in Computing, Analytics and Security (ICICCAS-2020) during 29th and 30th of July 2020. I am very glad to invite you all to our prestigious institute. This conference provides an opportunity for meeting of International Researchers, Engineers, Scientists and Specialists in the assorted Research and Development (R&D) fields of Engineering and Technology.

Technology has acquired a huge dimension in recent years getting into almost all strata of life. In this era of Intelligence and Security, we are trying to incorporate human perception into computers in multi-fold ways. The conference provides a generic platform and exhilarates the participating delegates to deliberate crucial issues to promote new knowledge in Computing, Analytics and Security and share their innovated paybacks.

Hosting the ICICCAS-2020 is a manifestation of the commitment of PEC to promote research and research culture among the divergent community. It is the result of tremendous efforts of the Organizing Committee Members who took care of all aspects of the conference organization, preparing call for papers, evaluation of submitted papers, inviting guests and local arrangements for receiving authors, participants and guests. I congratulate them for hosting such a successful event.

Being the Chief Patron of ICICCAS-2020, I feel very proud that this International Conference would enhance and elevate the Computing, Analytics and Security era to a higher level in the trending facet of growth. I wholeheartedly appreciate all the sincere efforts of the entire team of ICICCAS-2020 and wish them a grand success.



Dr. S. Kothandaraman

Principal

Pondicherry Engineering College

Puducherry, India

Patron Message

The Department of Computer Science and Engineering of PEC has its extreme honour in hosting this International Conference, ICICCAS-2020. We are in the knowledge era where, computing and technology has become an integral part of our life and has made our life more comfortable. In this regard, the conference provides a common platform for the budding researchers, guests, speakers and delegates to share their expertise and research outcomes.

International Conferences paves way to enrich your management skills, empower your team work and collaboration. The collection of manuscripts and invited talks will provide you an insight in recent trends and research directions in the emerging technological areas. I am privileged to say that this conference will definitely offer suitable solutions to the global innovations and challenges.

The advancements in the field of Computing, Analytics and Security makes technological innovations more centric towards decision making capabilities as intelligent devices. This conference adds more significance to the fact and affirms the same. I am confident that the deliberations during the conference would be beneficial to all the participants and it would provide them a suitable platform for sharing their knowledge about the recent trends and advances in these domains.

I feel extremely happy and proud to be a part of this grand event. Eventually I express my special thanks and appreciation to all. I wish ICICCAS-2020 all the best for its success.

!! Wishing you to gain ecstatic knowledge!!



Dr. R. Manoharan

Professor & Head

Department of Computer Science and Engineering

Pondicherry Engineering College

Puducherry, India

Organizing Committee Message

It is our pleasure to have all of you engaged in the field of Computer Science and to participate in the First International Conference on Innovations and Challenges in Computing, Analytics and Security (ICICCAS-2020) during 29th & 30th July 2020.

This two-day conference focuses on the recent research and industrial projects of computer science and related technology. The conference aims to be a key international forum for the exchange and dissemination of technical information on Computing, Analytics and Security among academics and practicing engineers in the field.

Computing: To enhance the knowledge about the latest Computing technologies pertaining to Cloud computing, Machine Learning, Image Processing and Internet of Things for social development and problem solving.

Analytics: To gain an insight into the methods and techniques for analyzing data to convert information to useful knowledge that could help us understand our world better and enable us to make better decisions.

Security: To raise an awareness and understanding on the issues involved in network, privacy and information security with the increase in the scale of commercial activities over different networked systems and the shift from traditional Internet-based applications to newly emerging ubiquitous services.

The aim of the Conference is to provide a forum for delegates from the industry and academia to exchange ideas and feature technical presentations that cover topics of current interest in their research works. In addition, it is an ideal venue for interactions and for them to establish the all-important contacts with each other.

The organizing committee is gratified to have a line-up of highly renowned speakers consists of experts who agreed to shed light on research and issues that shape our profession. Various programmes consisting of keynote addresses, pre-conference tutorial, technical sessions have been assembled. Additionally, there were opportunities for students, researchers and practitioners to share their research and contribution towards the success of our professions through oral and skype presentations.

The conscientious planning and creative ideas were rewarded with an exceptional turnout and an abundance of rich academic discourse. Nearly 100 participants attended the conference including the presenters, exhibiting various states of India.

The conference had an excellent retort, as it received a total of 82 manuscripts that were critiqued by a pool of 79 reviewers from leading Institutes of India and Abroad. The review process was meticulous and only 57.32% of the submitted proposals were accepted for oral presentation.

Over the course of the event, participants had the opportunities to explore divergent thoughts of Computing, Data Analytics and Security with three parallel sessions organized for each domain. It was also encompassed with Keynote Addresses from esteemed speakers. A pre-conference tutorial was also conducted in accordance with this on 18th March 2020.

This conference will surely offer participants a platform to exchange ideas, discover novel opportunities, reacquaint with colleagues, meet new friends and broaden their knowledge.

The organizing committee members from the department of Computer Science and Engineering of Pondicherry Engineering College are very happy in providing a platform to people and researchers for the promotion of research which will immensely benefit young scholars participating in the conference.



Dr. K. Vivekanandan

Chairman

ICICCAS-2020



Dr. P. Salini

Organizing Secretary

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Organizing Secretary

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Acknowledgement

The main objective of this flagship event is to provide a platform to leading researchers from academia and practitioners from industry to share their innovative ideas, experiences, and cutting-edge research. It is indeed our reverence to add gratitude to people who made this event a successful one.

Nearly all of the abstracts in this volume are the versions of manuscripts presented at the International Conference on Innovations and Challenges in Computing, Analytics and Security (ICICCAS-2020) which was held at Pondicherry Engineering College, Puducherry on 29th and 30th of July, 2020.

First and foremost, we would like to thank the TEQIP III NPIU (A Unit of Ministry of Human Resource Development, India), for financially supporting our conference and permitting us to conduct in an efficient manner.

We would also like to convey our sincere gratitude to Dr. K. Sankaranarayanan, Director, National Institute of Technology Puducherry, Karaikal who has inaugurated the ICICCAS-2020 and gave the conference an eminent environment.

We would also like to convey our sincere thanks to Dr. B.S Manoj, Professor & Head, Dept. of Avionics, IISST, Trivandrum, Dr.A.Kannan, Senior Professor, VIT, Vellore Dr. G. Aghila, Registrar and Professor, NIT Puducherry, Karaikal and Ms.Veena, Head – Learning Organizational Development, InMobi, Bangalore for delivering wonderful Tutorials during the Conference.

Around 79 reviewers were appointed to scrutiny all the papers received for our Conference. We are very grateful to all of them for their precious help. The feedback we have received from the authors in this respect has been enthusiastic and has shown that many of the reviews have been essential to put some of the papers on track.

We would also like to extend our sincere gratitude to our beloved Principal Dr.S.Kothandaraman, Dr. R.Manoharan, Professor and Head of Department of Computer Science and Engineering and Dr. G. Sivaradje, TEQIP Co-ordinator, Pondicherry Engineering College for supporting us to conduct the conference in a successful manner.

Nothing is more honorable than a grateful heart. Our various committee members have contributed a lot for this International Conference and has always been supportive and a great backbone for us. We take this opportunity to express our sincere thanks to the Steering Committee, Workshop Organizing Committee, Program Organizing Committee, National and International Advisory Committee, and Technical Committee for all their constructive insights for the successful conduct of the conference.

Our special mentions to all the Non-Teaching members, Research Scholars, Undergraduate and Postgraduate Students, and the Researches/Authors, who were constantly helping us for the glorious conduct of the conference.

Last but not the least we would like to thank the God Almighty for standing beside us throughout the event and paving our path to success.





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