International Conference on Intelligent Engineering Approach (ICIEA-2022), 12th February 2022, H.K.E. Society's S.L.N. College of Engineering, Raichur, Karnataka, India

Preface

This volume of the Global Transitions Proceedings encompasses the papers presented at the International Conference on Intelligent Engineering Approach (ICIEA-2022), which took place on the 12th of February 2022, at the H.K.E. Society's S.L.N. College of Engineering, Raichur, Karnataka, India.

In view of the ongoing COVID-19 pandemic, and partial upliftment of lockdown imposed by the Indian Government, huge public gatherings were mostly restricted and treated as a high offence by the task force not only within the country, but world over. Therefore, in accordance to the government rules the decision was taken to host the entire event proceedings in a virtual mode, which was made possible via "GOOGLE MEET". The event proceedings were successfully implemented through the online platform seamlessly, with the will and co-operation of all its organizers, hosts, participants and all other contributors.

International Conference on Intelligent Engineering Approach (ICIEA - 2022) aims at bringing together researchers, scientists, engineers, research scholars and industrial participants around the world to a common platform to share their experiences, new ideas, and research findings on all aspects of Computer Engineering and Electrical and Electronics Engineering. The researchers will present the state of the art of expansion and technical explanation covering a wide range of engineering subjects. This conference offers an international forum for sharing ideas, discussing the findings of research and introducing theoretical and practical applications in these fields. The current focus of global science, Electronics & Communication Engineering trends, interdisciplinary research and engineering activities are expressed in this conference. Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, experiment works and industrial experiences that describe significant advances in 4 major areas of:

■ Automation and Security
■ Engineering and Technology
■ Machine Learning and Application
■ Ambient Intelligence

The conference has received an impressive total of 151 papers from various academicians, researchers and from industry practitioners. Among the 151 submissions, this volume contains 55 accepted papers that were presented at the conference. All the papers were subjected to a thorough review process which involved peer reviewing by at least two referees, until each of the papers levelled the premier quality benchmark expected at the conference.

This conference was an international forum for the exchange of ideas, discussions on research results and the presentation of theoretical and practical applications in areas such as, 5G based Green IoT, Smart cities, Medical Signal and Image Acquisition, Heterogeneous Computing, Interface Architecture, Personalized and adaptive learning platforms and tool, Smart Grids, Data Centers, Context-aware pervasive systems, Collaborative Learning and many other such trending innovations and latest developing technologies.

Some of notable guests participated in ICIEA 2022:

Chief Guests

Dr. Parameshachari B.D. Professor and Head, GSSSIETW, Mysuru, Chair, IEEE, Mysore Subsection and IEEE Information Theory Society – Bangalore Chapter.

Guest of Honors

Dr. Bui Thanh Hung [Keynote Speaker 1] Professor, Thu Dau Mot University, Vietnam

Dr. Javed Rahebi [Keynote Speaker 2] Istanbul Ayvansaray University, Turkey