

## EDITORIAL

The editorial team of CVR Journal of Science and Technology is very happy to bring out this Volume No 27 in time. This biannual journal is being published regularly since 2011 without any break. Since 2016, the journal issues are being released in time. During the Carona pandemic time also, despite many hurdles, the journal was brought out in time, with the co-operation of authors, reviewers and editorial team members.

We are taking care to see that standard practices are followed in the publication of the Journal. Blind review is done, and a number of iterations are done till the reviewers are fully satisfied with the standard of the research paper. Senior faculty of English language Department, take care of the language issues. Template verification and typographical errors are checked, before the articles go for publishing. Hope the researchers appreciate this effort. Many research articles published in the journal are being referred by other researchers across the globe, as indicated by DOI, Crossref data.

This Volume covers research articles in the following disciplines:

**CSE-2 , ECE- 4, EIE-4, ET-1, IT-1, EEE-2, MECH-2, CIVIL-1, H&S (Mang. Sc.)-1**

This is a multidisciplinary journal. Research articles in the areas of physics, Chemistry, Mathematics, Management Science, Statistics, Environmental Science etc. are also accepted.

In this issue, an article from an eminent researcher and educationist on Trust based community learning is published. This is a process that performs asynchronous knowledge transmission over a neighbour graph implicitly defined in a community, according to the author. This work proposed a Trust Based Community Learning (TBCL) algorithm. It is hoped that many researchers would get initiated into this area and many thought provoking articles would come in near future. Another article on the design of mobile hand set or user equipment for emerging sub-6G applications with Radio Frequency Front End (RFFE) to support increased data, larger coverage, low power consumption and other salient features is also published. The power Amplifiers (PAs) are designed using cadence Virtuoso EDA tools. The design of switching class -D, E and F Power Amplifiers is also given. To overcome the limitations of Von Neumann Systems in applications, which are computationally demanding, new architectural technologies are proposed in one article. Resistive Random Access Memory (ReRAM)- based computation- In -Memory (CiM) is explained in this paper. The advantages of VCO-based ADC design are mentioned.

To assist the vehicles under emergency conditions, IoT based Real Time Communication and location system is proposed in one article. This will be very useful for automobiles and can be implemented for practical situations. To prevent accidents, an IoT based model is proposed in another article. Queuing Model-based Prediction Scheme (QMPS) for Conserving Power in BWA Networks is explained in one research article.

Students are being encouraged to publish research papers based on the project work done by them. P.G. students spend almost one year on the project work. So, this should result in significant work suitable for publication in a journal. Project supervisors guiding the students must give research orientation for the work of the students. Selected research papers of U.G. students are also published in this volume. It is heartening to see that U.G. students are also showing enthusiasm for publishing papers. Hope this trend will continue.

Thanks are due to **HOD, H & S**, and the staff of English Department for reviewing language in the papers. I am also thankful to **Dr. S. Venkateshwarlu, Dr. P. Uma Maheshwera Reddy Assoc. Editors and Mr. Ch. Gangadhar, DTP Operator** in the Office of Dean Research, for the preparation of research papers in Camera - Ready form.

For further clarity on waveforms, graphs, circuit diagrams and figures, readers are requested to browse the soft copy of the journal, available on the college website, [www.cvr.ac.in](http://www.cvr.ac.in) wherein a link is provided. Authors can also submit their papers through our online open journal system (OJS) [www.ojs.cvr.ac.in](http://www.ojs.cvr.ac.in) or [www.cvr.ac.in/ojs](http://www.cvr.ac.in/ojs)

**Prof. K. Lal Kishore**  
**Editor**

