

SRI SAIRAM ENGINEERING COLLEGE

DEPARTMENT OF INFORMATION TECHNOLOGY

PROUDLY PRESENTS

ENDEAVOUR

2020-2021

Issue 2

FROM THE HOD'S DESK

INSIDE THIS ISSUE:

From the HOD's desk	1
Department Highlights	2
Spark plugs of IT	3
Article on Homomorphic Encryption	4
Student's corner	5
Did you know?	6

D E A R R E A D E R S
I, on behalf of the complete branch of information technology, take great delight and pleasure in liberating the edition "ENDEAVOUR". Our newsletter presents a really perfect platform for for the students to express their view at the thrilling technologies, current traits and developments. It additionally takes us on a adventure which brings out all of the highlights of the branch ,which includes important activities that took place ,news about research and improvement our development and our splendid achievements,each from the scholar fraternity in addition to our faculty. A few non technical articles have additionally been posted to entertain in addition to increasing the scope of our readers time .

This version focuses on Homomorphic Encryption that's the current developing technology in the modern-day world .It additionally carries information about the rising technology that are currently below development. The publication additionally consists of the listing of achievers so as to honour them on the same level to inspire their paintings additionally.



"Somebody who only reads newspapers and at best books of contemporary authors looks to me like an extremely near-sighted person who scorns eye-glasses. He is completely dependent on the prejudices and fashions of his times, since he never gets to see or hear anything else.", said Albert Einstein. we release a newsletter every three months to encourage the work of both students and faculty. I would also like to thank our college management for helping us transform the vision of " ENDEAVOUR" into reality .

CHIEF EDITOR: Dr. T. Sheela

ASSOCIATE EDITOR:
Ms.S.Anitha Jebamani

EDITORS & DESIGNERS:

S. SRINITHI	II YEAR
S. VARSHA	II YEAR
M SHABIKA FATHIMA	II YEAR

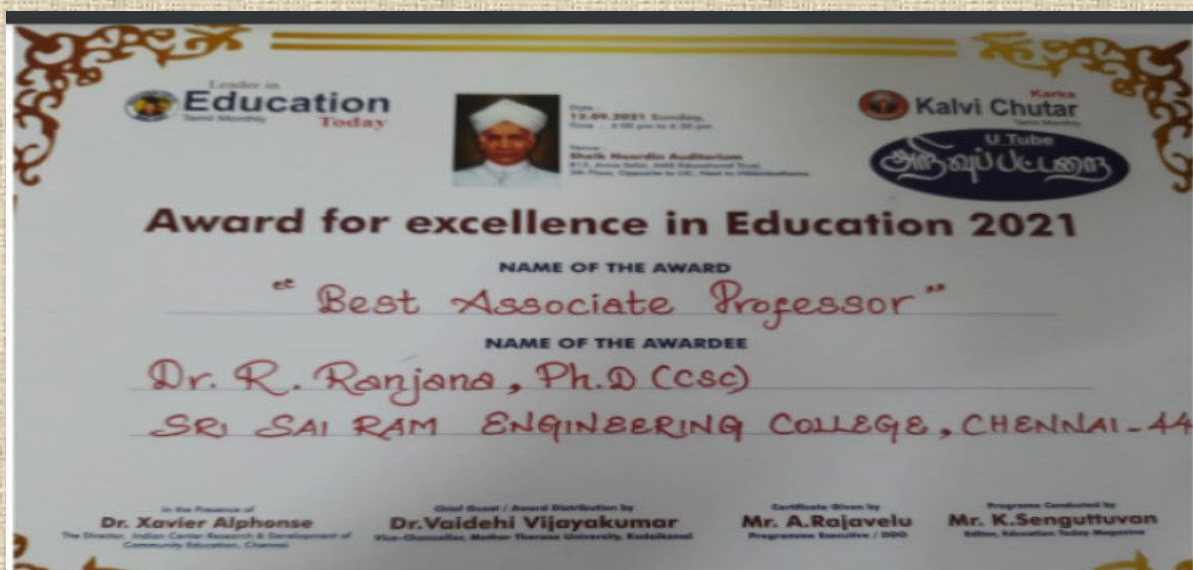
EDITORIAL
BOARD



"The biggest part of our Digital transformation is changing the way we think"
- Simeon Preston

DEPARTMENT HIGHLIGHTS

Dr.R.Ranjana , Associate Professor, Department of Information Technology, has been awarded the “**BEST ASSOCIATE PROFESSOR**”, in the Award for excellence in Education 2021 function organised by Kalvi Chutar , Education Today, on 12/9/2021 at Sheik Noordin Auditorium, Mount Road, Chennai.



BUZZER MARKERS OF THE DEPARTMENT

Mr. Dwaraknath K have won 1st Prize and was awarded with a cash prize of Rs.1000 in ENQUIZTA Event organized by Chennai Institute of Technology.



Ms. Shree Sharanya, Mr. Pramoth and Ms. Harini N has won 2nd prize in Paper presentation event and was awarded with cash prize of Rs. 1000 by Chennai Institute of Technology.

Ms. Nikitha S and Mr. Balaji R has won 1st prize and was awarded with cash prize of Rs.2000 in Zenista 2020 Share you Vision Idea Event.



Mr. Balaji R III year, Ms. Swathi K, Mr. Dwaraknath K II year are the 1st runner up in the event V-Symcosci 2021 conducted by Muthayammal Engineering College, Namakkal.

HOMOMORPHIC ENCRYPTION

Technology has become an indispensable part of our life, with the help of technology, everything we want to know or learn has just become a "one search away" thing. No need for straining ourselves, everything we want to know or every little moment we want to flex is found on our social media page.

We all know this idiom "everything comes with a cost" and the cost we pay to use the internet is our private data being stolen without our knowledge. This might be upsetting at times, no one wants anyone to know their dark secret. Especially not to a stranger on the internet who is currently busy hacking into your system. To overcome this crisis of our data being stolen and not to let third party websites steal our private information such as bank account details, private pictures etc. The process of cryptography was introduced.

To enhance the feature of cryptography, a new technology named homomorphic encryption came into process. In this encryption modifications are done on the encrypted data without decrypting it. I.e unlike the other encryption process, where decryption is done on the encrypted data before modifying. Which might end up with leaving the Vulnerabilities out in the open for attackers and third party websites. Homomorphic Encryption prevents this happening by working/modifying the necessary data without decrypting it.

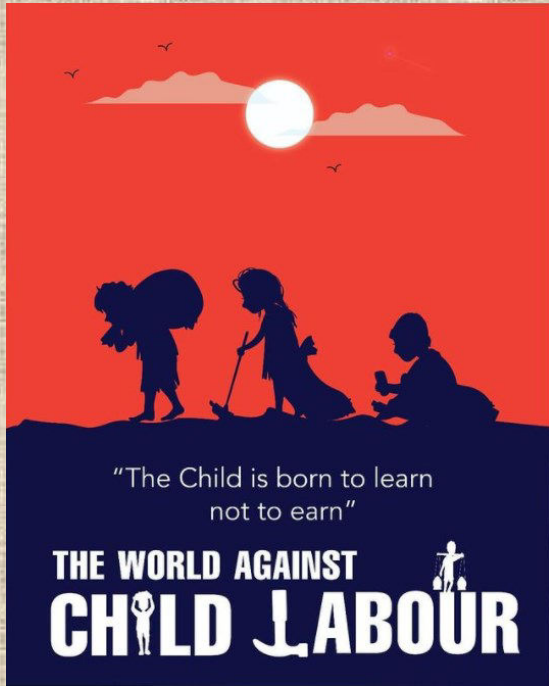
Homomorphic Encryption uses an algebraic system to allow functions to be performed on data while it's still encrypted, which is a major point compared to other cryptography techniques which use public keys to modify data while on decryption.

Another bonus of homomorphic encryption is that unlike other encryption models in use today, it is safe from getting broken by quantum computers.

The practical use of homomorphic Encryption is found in ensuring democratic elections with are secure and transparent, it Is also used in hospitals to safeguard our medical history which can become a threat if found on the wrong hand. Overall, homomorphic Encryption is a blooming technology. We don't know what the future holds but we must all by now know that use of homomorphic Encryption will become a trend in the upcoming future years.

“The more complex you are the more safe you are”

STUDENTS'S CORNER



POSTER DESIGNS BY PRITHVI PK 1 YEAR IT
who has won various prizes in designing

DID YOU KNOW ?

IT Professionals Stress Out About Technology Just Like Everyone Else!!!

Most people think of IT professionals as experts on hardware and software.

31% of them rated “keeping up with technology” as the biggest challenge in the workplace, though.

Unsurprisingly, IT professionals constantly deal with new hardware and software. New products and services launch in the IT field every single day.

IT professionals that work with multiple companies or clients may find themselves using dozens of different hardware and software solutions.

For high-level IT professionals, “impact on work-life balance” takes precedence over technology woes.

