

IGNITE 2022



A DAILY NEWSLETTER

Editor in chief

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FACULTY PARTICIPATION



Dr. Shyam Sunder Mishra, Associate Professor, Department of Chemical Engineering has undergone the **Innovation Ambassador (IA) Training** at the foundation level conducted by MoE's Innovation Cell and AICTE during IIC calendar year 2021-22.

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STUDENTS HIGHER STUDIES



CONESTOGA
Dedicated Life and Learning

INTERNATIONAL 

Conestoga College Institute of Technology and
Advanced Learning
Office of the Registrar

299 Deon Valley Dr.
Kitchener, Ontario N2G 4M4

CONESTOGA COLLEGE INTERNATIONAL EDUCATION OFFICE

Date: June 28, 2022

Adaikkalam Raja Shankar
2nd Main Road, Thiruvalluvar Nagar, Kodungaiyur
34/1
Chennai, Tamil Nadu
600118, India

Student Number: 8872460

Dear Adaikkalam Raja Shankar

Congratulations on your full-time acceptance to Conestoga College. Your letter of acceptance can be used to apply for your study permit at the [Canadian Embassy](#) or Canadian High Commission in your country. As it can often take several weeks to process your study permit, please apply as soon as possible.

Please also be sure to visit our [International Scholarship website](#) for scholarship opportunities.



Adaikkalam Raja Shankar, IV year student, Department of Mechatronics has been selected for the Higher Education programme in **Process Quality Engineering** at Conestoga College, Ontario, Canada.

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FACULTY PARTICIPATION



Mrs Radhika Somakumar, Assistant Professor, Department of Electrical and Electronics Engineering has participated in the Professional Development Programme on **Renewable Energy Sources** conducted by NITTTR, Chennai from 27.06.22 to 01.07.22.

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FACULTY PARTICIPATION

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiatives)

Regional Meet
Institutions' Innovation Council
MoE's Innovation Cell

Certificate of Participation**PraveenKumar R****Agni College of Technology , Tamil Nadu**

has participated in the regional meet held on 21st July 2022 at
Sathyabama Institute of Science and Technology, Chennai.

Dr. G. Sundari

President of IIC
Sathyabama Institute of
Science and Technology

Mr. Dipan Sahu

Assistant Innovation Director
MoE's Innovation Cell

Mr Praveen Kumar R, Assistant Professor, Department of Electrical and Electronics Engineering has participated in the regional meet of Institution's Innovation Council and MoE's Innovation Cell on 21st July 2022 at Sathyabama Institute of Science and Technology, Chennai.

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FACULTY PARTICIPATION



Mr. Surender Paul and Mr. Yokesvaran, Assistant Professors, Aerospace Engineering have attended a five day FDP on **Applications of Machine Learning Algorithm** in Aerospace Engineering organised by Bharath University, Chennai.

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STUDENTS ACTIVITIES



Ms. Pooja S, III year student, Department of Information Technology has completed the **online certification course on Python** conducted at HOPERAISER ACADEMY from 16th March to 30th April 2022.

FACULTY PARTICIPATION

Proceedings of International Virtual Conference on Innovations and Research in Marine Electrical and Electronics Engineering (ICIRMEEE 2022), 28th -29th April 2022, Chennai, India.

Optimal Social Network Defence against Sybil Attacks

R.V. Lakshmi Priya¹, Dr. S. Geerthik²

¹Assistant Professor, Department of IT, Agni College of Technology, Chennai, India

²Associate Professor, Department of IT, Agni College of Technology, Chennai, India

¹lakshmiPriya.slp@gmail.com, ²geerthiks@gmail.com

Abstract— This paper proposes a Sybil Guard for countering Sybil attacks without relying on a trusted central authority. Peer-to-peer systems, for example, are open-access systems that attempt to provide service to anyone who wants to use it. Sybil attacks are recognised to be particularly dangerous to peer-to-peer and other decentralised, distributed systems. A Sybil attack occurs when a hostile actor obtains many phoney identities and impersonates

The local entity has no direct physical knowledge [3] of remote entities; it recognizes that only informational abstractions called identities. The system must ensure that distinct identities refer to distinct entities; otherwise, when the local entity selects a subset of identities to redundantly perform



Ms. Lakshmi Priya R V, Assistant Professor and Dr. Geerthik S, Head, Department of Information Technology have presented a paper on **Optimal Social Network Defence Against Sybil Attacks** in **ICIRMEEE International Conference**, organized by AMET University on 28th and 29th April 2022.

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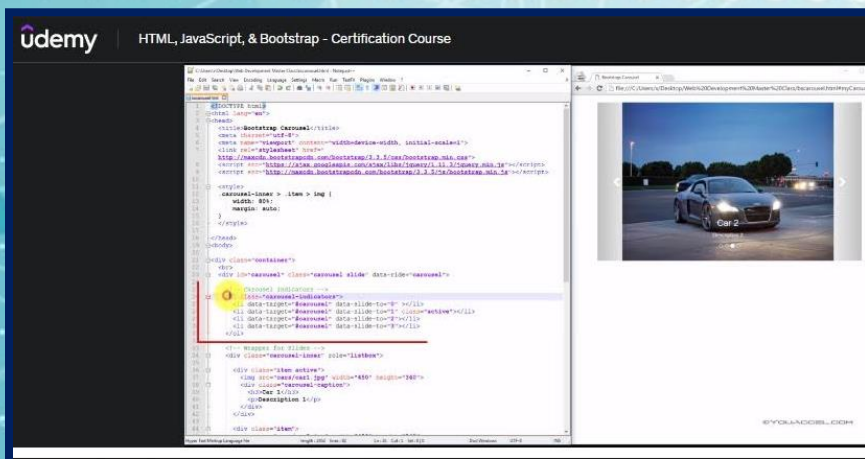


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FACULTY PARTICIPATION



Dr. S. Geerthik, Head, Department of Information Technology has completed the certificate course on **HTML, JavaScript, & Bootstrap** offered by Udemy on 22nd July 2022.

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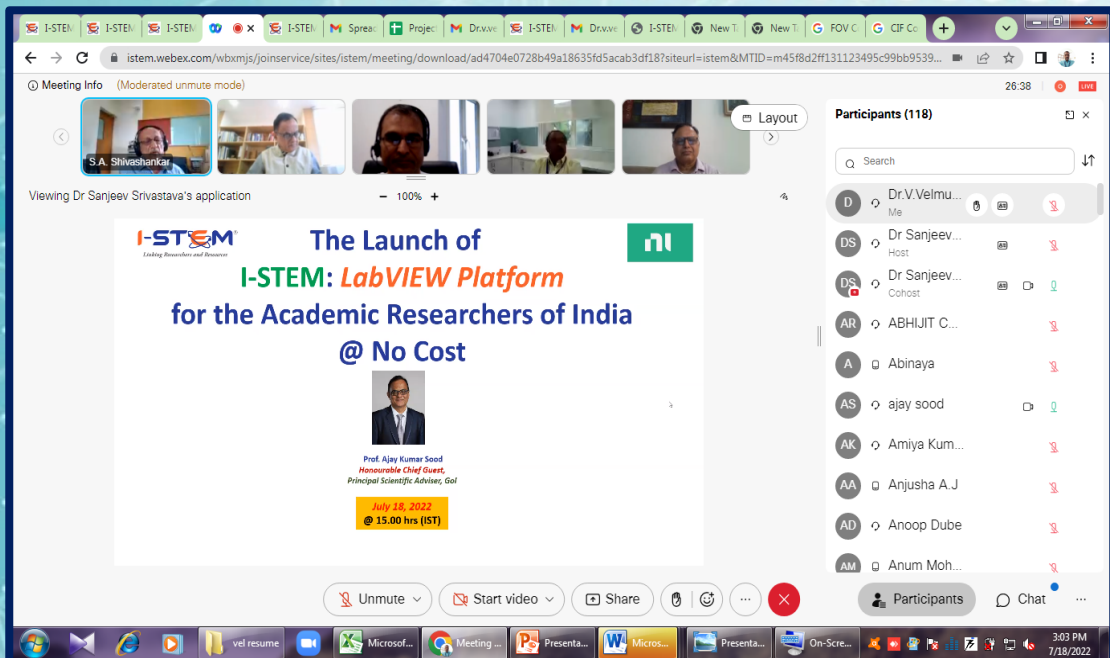


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FACULTY PARTICIPATION



Dr N V S Sree Rathna Lakshmi, Professor and Head, along with Dr. Velmurugan, Associate Professor, Department of Electronics and Communication Engineering have taken part in the Launch of I-STEM (Indian Science, Technology and Engineering facilities Maps) LabVIEW platform on 18th July 2022 which is an initiative of the “Aatma Nirbhar Bharat” scheme to optimize the usage of software resources. The portal was launched and dedicated to the nation by the Honourable Prime Minister of India, Shri Narendra Modi for the Academic Researchers of India.

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ALUMNI INTERACTION

Dr N V S Sree Rathna Lakshmi, Professor and Head, Department of Electronics and Communication, had an Interaction with the Alumni Mr. Aravindhana, Assistant Professor, SRM University, Chennai in the presence of the Alumni coordinators Dr Muthalagu R, Professor and Mrs Maheshwari D, Assistant Professor on 21st July 2022.

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FACULTY PARTICIPATION



Dr. J. P. Josh Kumar, Professor, Department of Electronics and Communication Engineering had participated in the 47th Edition of BRIDGE-2022, a High Impact Industry-Institute Interaction Event of India organized by ICT Academy held on 13th July 2022 at Chennai Trade Centre, Chennai.

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FACULTY PARTICIPATION



Mr. Ohm shankar. S and Mrs. Maheswari. D, Assistant Professors, Department of Electronics and Communication Engineering have participated in the online Faculty Development Programme on Virtual laboratory Platform for Digital Electronics Circuits Laboratory organized by Vellore Institute of Technology (VIT), Chennai on 9th July 2022.

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FACULTY PARTICIPATION



Dr. T. Anand, Professor and Head, Department of Mechanical and Automation Engineering has participated in the Regional Meet - Institutions Innovation Council MoE's Innovation Cell held on 21st July 2022 at Sathyabama Institute of Science and Technology, Chennai

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FACULTY ACHIEVEMENT



Mr. K. Ragupathy, Assistant Professor, Department of MAE has successfully completed his Ph.D. Viva-Voce Examination held at Kumaraguru College of Technology, Coimbatore on 20th July 2022.

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FACULTY ACHIEVEMENT – PUBLICATION PAPER REVIEWED



S. Deepak Assitant Professor - MAE <deepak.mae@act.edu.in>

5232411: Thank you submitting your reviewer report!

1 message

Yuvaraja Teekaraman <maryann.hernandez@hindawi.com> Fri, Jul 22, 2022 at 8:54 AM
To: deepak.mae@act.edu.in

Dear Dr. Deepak,



Thank you for submitting your reviewer report on on Research Article 5232411 titled "Intelligent Algorithm-based Ultrasound Images in Evaluation of Therapeutic Effects of Radiofrequency Ablation for Liver Tumor and Analysis on Risk Factors of Post-operative Infection " by Rong Wu, and for taking the time and effort to review this manuscript for Contrast Media & Molecular Imaging.

Kind regards,
Contrast Media & Molecular Imaging

This email was sent to deepak.mae@act.edu.in. You have received this email in regards to the account creation, submission, or peer review process of a submitted paper, published by Hindawi Limited.

Hindawi Limited, 3rd Floor, Adam House, 1 Fitzroy Square, London, W1T 5HF, United Kingdom

Mr. Deepak Samathkumar, Assistant Professor, Department of MAE has reviewed and submitted a report on **Contrast Media & Molecular Imaging - Research Article 5232411 entitled as Intelligent Algorithm-based Ultrasound Images** in Evaluation of Therapeutic Effects of Radio Frequency Ablation for Liver Tumor and Analysis on Risk Factors of Post-operative Infection on 22nd July 2022.

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FACULTY ACHIEVEMENT

International Journal of Early Childhood Special Education (INT-JECSE)
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Data Security In Databases In Medical Clinic

Dr. Ishwarya M.V.¹, Nalini.M.², J.Jegan Amarnath³, A.Kumaresan⁴, M.Suresh Anand⁵

¹Assistant Professor, Artificial Intelligence and Data Science Department, Agni College Of Technology, Chennai

²Associate Professor, Department of Computer Science and Engineering, S. A. Engineering college, Chennai

³Associate Professor, Department of Computer Science and Engineering, Sri Sairam Engineering College, Chennai

⁴Assistant Professor (SG II), School of Computer Science and Engineering, Vellore Institute of Technology, Vellore

⁵Assistant Professor, Department of Computing Technologies, School of Computing, SRM Institute of Science & Technology, Kattankulathur Chennai

Abstract: Encryption of database is a significant subject for discovery, as secure and effective encryption calculations are required that give the capacity to question over encoded database and permit streamlined decryption and decoding of information. There is constantly a tradeoff between the level of security given by encryption calculation and the precision questioning on the database, in light of the fact that the encryption and decryption on database incredibly deflates the inquiry execution. For this, we propose another encryption calculation: Reverse Encryption Algorithm (REA). REA is basic and quick enough solution for most applications. REA gives greatest security and limits the additional time cost for encryption and decoding to as to not corrupt the exhibition of a database framework. Security assurance is one of the principal security prerequisites for database re-appropriating. A significant risk is data spillage from databases to get to designs produced by question executions. Ongoing works propose to secure access designs by presenting a confined segment with steady capacity size. The subsequent security confirmation is as solid as PIR, however with $O(1)$ online calculation cost, they still have $O(n)$ amortized cost per question. Because of intermittently, full database rearrangements. In this work, we plan a novel plan in a similar model with provable security, which just rearranges a segment of the database.

1. INTRODUCTION

Security assurance is one of the basic security prerequisites for database re-appropriating. A significant danger is data spillage from the database gets to designs produced by inquiry executions. Private Information Recovery (PIR) convention enables a client to recover a thing from a server possessing a database without uncovering which thing they are recovering. PIR is a more fragile rendition of 1-out-of-n cardless exchange, where it is too necessitated that the client ought not to get data about other database things. While this issue conceals a minor arrangement – sending the whole database to the customer permits the customer to question with flawless security there are procedures to lower the correspondence intricacy of this issue, which can be basic for enormous databases. The Strong Private Information Retrieval (SPIR) is the recovery with the extra prerequisites that the customer just find out about the components of the inquiry. So protection needed as a database proprietor. Numerous PIR plans have been proposed with the accommodation on bringing down the correspondence multifaceted nature between the server and the client. Those PIR plans bring about considerably more turnaround time than moving the whole database as an answer to the client, on the grounds that the overwhelming calculation acquired at the server exceeds the speed correspondence cost.

The Private Information Retrieval issue is in a manner of speaking misused over customer's insurance, without requiring any affirmation of server's insurance. The database used in the assorted session processes in different locales. The entire database as a response to the customer is considering the way that the generous figuring achieved at the server, surpasses the speed correspondence cost. Differentiated and the standard PIR plans, tears down mixed data records rather than bits in plaintext.

Nevertheless, how to address adequately on the mixed database transforms into a test? Normally the structure needs to redesign the introduction to get the security. Exactly when data is taken care of in mixed structure, we have to unscramble all of the data before addressing them. It is unreasonable because the cost of unscrambling over all the mixed data is expensive. Therefore, we put forth the innovative encryption estimation, known as 'Privat Encryption Count (REAP)'. Privat Encryption Algorithm is powerful and reliable. To guarantee get to case of the database

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INTJECSE
International Journal of
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Data Security In Databases In Medical Clinic

Dr. Ishwarya M.V, Nalini.M, J.Jegan Amarnath, A.Kumaresan , M.Suresh Anand

Keywords: Encryption of database is a significant subject for discovery



Dr. Ishwarya M.V, AP, Department of AIDS has published a paper on **Data Security In Databases In Medical Clinic** in the Web of Science Journal INT-JECSE.

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