

IcfaiTech Newsletter



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- Campus Happenings
- Faculty Achievement
- Welcoming Faculty



Director's Message

Aiming to be the hallmark of resilience, we begin this academic year by welcoming our students back to the campus where we encourage our faculty and students to collaborate and exchange knowledge. Through development programmes, the faculty advance their expertise to impart contemporary skills to budding engineers. Our faculty also engages in relevant research, reinforcing the culture of innovation predominant at our institute.

This issue of the newsletter showcases all the achievements of our faculty and introduces our avid readers to the new faculty members who have joined the IcfaiTech family. Also, it informs that our final year students have begun acing various campus placement drives, signifying the commencement of their prodigious career.

My dear readers, stay with us and we will continue sharing intriguing stories of our vibrant campus in the upcoming months. Till next time, relish knowing us better through this edition of the newsletter!



*~ Dr. K.L. Narayana
Director, IcfaiTech, Hyderabad*

Faculty Achievements

Dr. Anjanna Matta, Assistant Professor and Coordinator, Department of Mathematics, IcfaiTech, Hyderabad published research paper.

Title: Nonlinear magneto convection in an inclined porous layer with artificial neural network prediction

Journal Name: Mathematical Methods in the Applied Sciences

Impact Factor: 3.17 (Q1)

Indexed: Web of Science, Scopus, SCIE journal

Publisher: Wiley

Abstract:

The onset of magnetoconvection in an inclined porous layer is investigated. The effects of physical parameters, such as the Rayleigh number, the inclination angle, and the Hartmann number, are examined. The system becomes more stable by increasing the inclination angle and Hartmann number. It is noted that the transverse rolls are more stable than the longitudinal rolls. A comparison between the linear and nonlinear instability analysis is discussed in more detail. The threshold values for the longitudinal and transverse rolls provide the subcritical instability region. It is noted that the subcritical instability region increases as the inclination angle also increases, whereas it remains unchanged as the Hartmann number increases. Besides, an artificial neural network (ANN) model using the Levenberg-Marquardt backpropagation algorithm is employed to predict the distribution of critical Rayleigh numbers for both linear and nonlinear stability analyses. The optimal number of neurons in the hidden layer is selected on the basis of coefficient of determination, root mean square error, and root mean relative error. The simulated critical Rayleigh numbers obtained by the numerical study and the predicted critical Rayleigh numbers by the ANN coincides.



Faculty Achievements

Dr. A. Manmadha Chary, Assistant Professor & Nucleus Member (Academic Affairs), Department of Mechatronics Engineering, IcfaiTech, Hyderabad published research paper.

Title: Quantification of the accuracy of additive manufactured (3D printed) medical models

Journal Name: International Journal on Interactive Design and Manufacturing (IJDeM)

Impact Factor: 2.681 (Q2)

Indexed: Web of Science, SCImago, Scopus

Publisher: Springer Nature 2022

Abstract:

Additive Manufacturing (AM) also known as 3D Printing is one of the advanced fabrication method in production of physical models from virtual models. One of the medical applications in AM technique is preplanning the surgery. For this, the surgeons use medical models for measurement, evaluation of the diseases and surgical procedures. On the other hand, fabricating the accurate (patient specific dimensional) model is one of the hectic problems to be solved. This paper represents dimensional error in between the 3D CAD mandible model to AM mandible models of cyst present in the mandible patient, and comparison of dimensional errors between the fabricated models of Selective Laser Sintering (SLS) and Fused Deposition Modeling (FDM) methods. It has been observed that the dimensional error between SLS and FDM mandible models from a 3D CAD mandible model is 6.03% and 8.33% respectively.



Campus Happenings

Department of Electronics and Communication Engineering, IcfaiTech, Hyderabad in collaboration with Entuple Technologies, Bangalore organized a Workshop on **VLSI Design and Verification using Cadence EDA Tools**.

Date: 24th - 26th August 2022

Brief Description: The workshop provided hands-on experience on the state-of-the-art Cadence EDA tools for VLSI Design. Cadence is a leading provider of EDA and semiconductor IP. The participants were exposed to the Circuit Design & Simulation, Layout, Physical Verification (DRC, LVS), and Extraction.



The poster features the ICEAI Foundation for Higher Education logo at the top left and the IcfaiTech logo at the top right. The main title is 'A Three Day Workshop On VLSI Design and Verification using Cadence EDA Tools' in blue and red text. Below the title is a yellow box with the dates '24th - 26th Aug 2022'. Further down, it states 'In Collaboration with Entuple Technologies, Bangalore'. A photograph of a large, modern, multi-story building with a green lawn and yellow flowers in the foreground is shown. At the bottom, it lists the organizing department: 'Organized by Department of Electronics and Communication Engineering IcfaiTech (Faculty of Science and Technology) Icfai Foundation for Higher Education (IFHE) Hyderabad-501203'. The Entuple Technologies logo is at the bottom right.

ICEAI Foundation for Higher Education
(Deemed to be University under Section 3 of the UGC Act, 1956)

IcfaiTech
Faculty of Science & Technology (FST)

**A Three Day Workshop
On
VLSI Design and Verification
using Cadence EDA Tools**

24th - 26th Aug 2022

In Collaboration with
Entuple Technologies, Bangalore



Organized by
Department of
Electronics and Communication Engineering
IcfaiTech (Faculty of Science and Technology)
Icfai Foundation for Higher Education (IFHE)
Hyderabad-501203

ENTUPLE
TECHNOLOGIES

Campus Happenings

IcfaiTech, Hyderabad celebrated Independence Day - *Azaadi Ka Amrit Mahotsav*. Flag hoisting ceremony attended by Dr. K.L. Narayana, Director, IcfaiTech, Hyderabad and the faculty members infused the patriotic feeling among everyone to contribute to the progress of our nation.



Ongoing Placements

With the commencement of the placement season, our final year students appeared for the recruitment drives conducted by reputed enterprises and are awaiting declaration of the selection list.

Companies that conducted placement drives:

- Amazon (Woman Diversity Drive) – **25 LPA**
- JTP. Co. Ltd. (A Japan Company & subsidiary of JTP America) – **24 LPA**
- IBM India Ltd. – **11 LPA**
- Micron – **10 LPA**



Welcoming Faculty

IcfaiTech, Hyderabad family welcomes the following faculty members!



Dr. Kaushik Sekaran
Associate Professor

Department of Computer Science
and Engineering
Ph.D.: VIT University, Vellore
Area of Interest: Cloud Computing,
Deep Learning, Blockchain Tech, and
Internet of Things.



Dr. Ramesh Archana
Assistant Professor

Department of Computer Science and
Engineering
Ph.D.: IIT, Hyderabad
Area of Interest: in Statistical Model
Checking, Agent Based Simulations, and
Applications of Formal Methods.



Dr. Pradosh Kumar Gantayat
Assistant Professor

Department of Computer Science
and Engineering
Ph.D.: VSS University of Technology
(Formally UCE, Odisha)
Area of Interest: DTN, Soft
computing, Artificial Intelligence,
Machine Learning, Ad-Hoc Network.



Dr. Dileep Kumar Murala
Assistant Professor

Department of Computer Science
and Engineering
Ph.D.: KIIT University
Area of Interest: Cloud Computing,
Blockchain technology, Artificial
Intelligence, Data Science, and
Information Security.

Welcoming Faculty



Dr. D. Krishna Madhuri
Assistant Professor

Department of Computer Science and
Engineering

Ph.D.: Sri Satyasai University

Area of Interest: Data Bases, Data
warehouse and Data Mining, Big Data and
Machine learning.



Dr. Srinivasa Rao Kongara
Assistant Professor

Department of Computer Science
and Engineering

Ph.D.: JNTU, Kakinada

Area of Interest: Information Retrieval
Systems, NLP, Machine Learning, Data
Mining



Dr. K. Adi Narayana Reddy
Assistant Professor

Department of Computer Science
and Engineering

Ph.D.: JNTU, Hyderabad

Area of Interest: Machine Learning and
Deep Learning



Dr. Durga Prasad Kavadi
Assistant Professor

Department of Computer Science
and Engineering

Ph.D.: JNTU, Kakinada

Area of Interest: Data
Science and NLP.



Dr. Kota Madhusudhana Rao
Assistant Professor

Department of Humanities

Ph.D.: Nagpur University

Area of Interest: Engineering Economics
and FinTech, Accounting and Finance

Welcoming Faculty



Dr. Santosh Kumar Sahoo
Assistant Professor
Department of Computer Science
and Engineering
Area of Interest: Cloud Computing,
Fog Computing, Machine Learning,
Deep Learning, Quantum
Computing.



Dr. Ashwin Kumar Myakalwar
Assistant Professor
Department of Physics
Ph.D.: University of Hyderabad
Area of Interest: Creating spectroscopic
analytical solutions (sensors) for
applications in the fields of defense,
pharmaceutical, metallurgical, and mining.



Dr. Thokala Soloman Raju
Assistant Professor
Department of Physics
Ph.D.: University of Hyderabad
Area of Interest: Deep Learning of
solutions of Nonlinear
Partial Differential Equations using
PINN and Quantum Computation.



Dr. Bonala Kondal
Assistant Professor
Department of English
Ph.D.: English and Foreign Languages
University, Hyderabad
Area of Interest: Second language
writing, learning and acquisition,
academic writing, and computer-
assisted language learning.

Welcoming Faculty



Dr. V Madhupama
Assistant Professor
Department of English

Ph.D.: English and Foreign Languages
University, Hyderabad

Area of Interest: Verbs and light verbs,
language teaching, acquisitional studies
and linguistic diversity of Indian languages



Ms. Madhusmita Majhi
Faculty Associate

Department of Computer Science
and Engineering

Ph.D.: Pursuing at National Institute
of Technology(NIT),Rourkela, Odisha
Area of Interest: Internet of Things,
Algorithm Design and Analysis



Mr. Shadab Ahmad
Faculty Associate

Department of Computer Science
and Engineering

Ph.D.: Submitted Thesis at University of
Hyderabad

Area of Interest: Image processing,
computer vision, multimodal biometric
fusion.



Mr. Sukanta Das
Teaching Associate

Department of Computer Science
and Engineering

Ph.D.: Pursuing at JNTU, Kakinada
Area of Interest: Cloud Computing
and vehicular Cloud.



Website:

<https://www.ifheindia.org/icfaitech/>

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<https://www.facebook.com/IcfaiTech/>

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<https://in.linkedin.com/company/icfaitech>



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