# PICT

SOCIETY FOR COMPUTER TECHNOLOGY AND RESEARCH ★ PUNE ★

## PUNE INSTITUTE OF COMPUTER TECHNOLOGY

OFFICIAL CE DEPARTMENTAL NEWSLETTER

**JAN -JUNE '23**

## What's inside?

## LEADERS

- Dr. P. T. Kulkarni, Director
- Dr. S. T. Gandhe, Principal
- Dr. G. V. Kale, HoD CE

## EDITORIAL TEAM

- Prof. K Gangrade
- Apurwa Kanitkar
- Manav Manish Parmar
- B Shrinidhi
- Nilay Tayade

## OUR MISSION

To impart learning by educating students with conceptual knowledge, hands-on practices using Free and Open-Source Software and tools, competency skills, social awareness, thereby igniting young minds for innovative thinking, professional expertise, and multidisciplinary research.

## OUR VISION

Achieve academic excellence by imparting education in computing and providing exposure to research to create intellectual professionals and explore global opportunities.

### MESSAGE FROM DEPARTMENT CHAIR

"I am delighted to present newsletter a collection of amazing contributions from the faculties and students of computer engineering department. I feel it is a chance to thank all the contributors who directly or indirectly helped in this publication."

### MESSAGE FROM EDITOR'S DESK

"To be able to bring light to the wondrous achievements of students and faculty of our department was an incredible experience. On behalf of our team we present to you this wonderful ride of talent, achievements and joy."

# TRAINING & PLACEMENTS

Vijaykumar Munde, Rohin Bhat, Akash Cheke selected in BLOOMBERG at 35 LPA

**Bloomberg**

**UPTIQ**

Chirag Patil selected in UPTIQ at 22 LPA

## DETAILS

TOTAL NUMBER OF STUDENTS PLACED

**272**

AVERAGE SALARY

**13.11 LPA**

# INTERNSHIPS

Akshay Jadhav got an internship in Bajaj Finserv of Rs 40000

Prutha Rinke got an internship in Reliance Jio

Viraj Nimbalkar got an internship in Bajaj Finserv of Rs 40000

Namit Surana got an internship at Airport Authority of India

Atharva Kumbhar got an internship at ICMR-NARI

Also, 3 students have received internships in BMC which is ongoing. (Stipend Rs.8000 per month)
1. Shrushti Thorat
2. Aditya Sangwai
3. Purva Lingayat

# ACTIVITIES CONDUCTED

An online one day Faculty orientation Program on "Image Processing and Sofware Defined Networks" was coordinated by Prof. M. S. Wakode and Prof. P. A. Khadkikar on January 20 2023 at University Level.
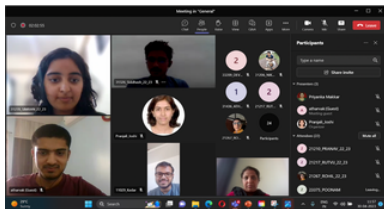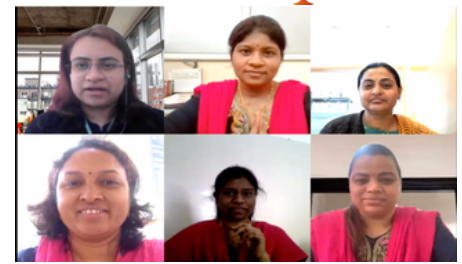




A two-day workshop on "Terraform" was delivered by Mr. Atharva Kulkarni, Software Engineer at Persistent, on April 29 and 30, 2023, coordinated by Prof. P. R. Makkar and Prof. P. P. Joshi, and attended by 50 participants.

A one-day hands-on workshop on "ChatGPT" was delivered by Ms. Arpita Gupta, on February 11 2023, coordinated by Prof. S. S. Sonawane, Prof. U. S. Pawar and Prof. R. A. Kulkarni, and attended by 41 participants.
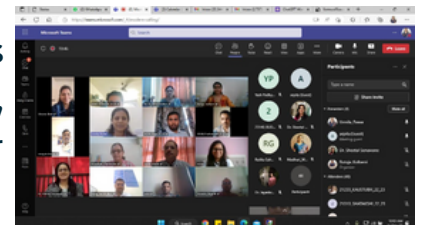




A distinguished lecture on the topic "Scope of Microwaves and Antennas in Modern Communication Systems" was delivered by Dr. Changzhi Li, a Professor at Texas Tech University,on April 19, 2023, coordinated by Prof. M. S. Wakode, with more than 100 participants.
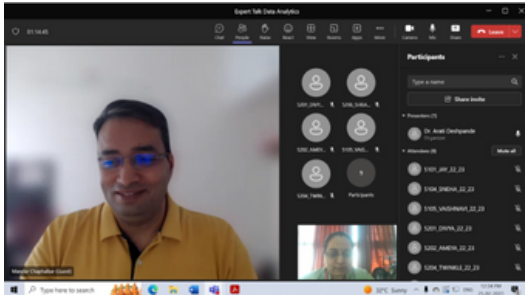
An expert session on the topic "Data Analytics Platform Architecture and Trends" was delivered by Mr. Mandar Chaphalkar, a data analytics specialist, at Google, Pune, on February 25, 2023, coordinated by Prof. A. R. Deshpande.

An expert session on the topic "Augmented Reality/Virtual Reality" was delivered by Mr. Omkar Bhope - a research assistant at UC San Diego, Mr. Tanishk Rane - a junior software engineer (AI/ML/DL) at Infogen Labs, Mr. Arnav Tope - a software engineer at Avaya and Mr. Harish Kumar, a researcher in AR/VR, AIR-7 in JRF, on January 28, 2023, coordinated by Prof. U. S. Pawar and Prof. R. A. Kulkarni.





An expert session on the topic "Internship Opportunities at NTRO" was delivered by Dr. Ravi Chaudhari, working at NTRO,on March 28, 2023, coordinated by Prof. G. V. Kale and Prof. M. S. Wakode, and attended by more than 100 participants.

# STAFF ACHIEVEMENTS

PICT ACM Student Chapter under leadership of Prof. G. V. Kale won the 'ACM India Outstanding Chapter Award' by ACM India and received Rs 50000 as prize money.

Prof. G. V. Kale won the 'ACM Outstanding Website Award' by ACM (International) and received $500 as prize money.

Prof. M. S. Takalikar received the 'Best Paper Award' at the International Conference on Gender Equality and Women Empowerment 2023, organized by PVG's College of Engineering and Technology and G K Pate (Wani) Institute of Management in association with the Department of Education and Extension at Savitribai Phule Pune University and the Rajasthan Sociological Association.
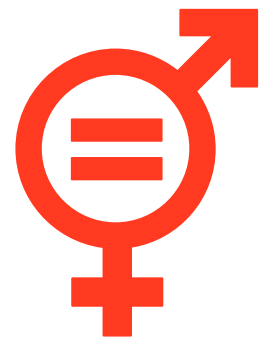
Prof. G. V. Kale is nominated as the secretary of the ACM India Women Council.

Prof. P. S. Shahane received appreciation under the 'INSC Young Researcher Award 2023' by the INSC (Institute of Scholars).
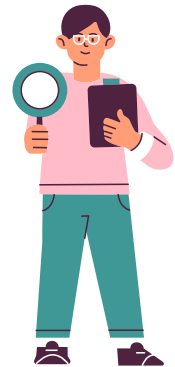
Prof. K. C. Waghmare successfully completed the 'IUCEE International Engineering Educator Certification Programme organized by IUCEE.

Prof. P. S. Vidap was the topper in the NPTEL Course (Pattern Recognition and Applications) organized by NPTEL.

>>> **NEWSLETTER**
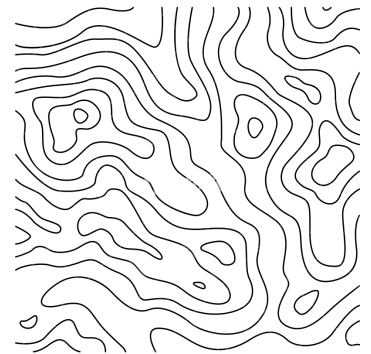
# STAFF CONTRIBUTIONS
# PUBLICATIONS

Prof. A. A. Chandorkar published an International paper on "DECENTRALIZED BLOCKCHAIN APP FOR CRYPTO TRANSACTIONS" in the International Research Journal of Modernization in Engineering Technology and Science with ISSN No. 2582-5208.

Prof. P. T. Kohok  published an International paper on "Comprehensive Survey of Different Techniques and Methods Used for Eshop Software Application" in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) with ISSN No. 2321-9653.

Prof. S. S. Shevtekar  published an International paper on "Ethereum based Fundraising Tracking System for Cancer Patients" in the International Journal of Innovative Research in Computer and Communication Engineering with ISSN No. 2320 - 9801.

 Prof. M. S. Chavan published an International paper on "Smart Bus Application" in the International Research Journal of Modernization in Engineering Technology and Science with ISSN No. 2582-5208.

Prof. D. D. Bhaiyya published an International paper on "Real-time Phishing Website Detection Using Machine Learning and Updating Phishing Probability with User Feedback" in the International Journal of Recent Technology and Engineering (IJRTE) with ISSN No. 2277-3878.

 Prof. K. Gangrade and Prof. S. Shah have published an International paper on "A Study on Neural Networks used for Traffic Signal Classification" in the IIconic Research and Engineering Journals (IRE) with ISSN No. 2456-8880.

Prof. A. G. Phakatkar published an International paper on "Price Movement Analysis using Machine Learning Approaches for Stock Price Movement using News" in the JETIR Journal with ISSN No.2349-5162.

## >>> NEWSLETTER

Prof. R. R. Jadhav published an International paper on "A Review on different ML Techniques used for Disease Detection in Sugarcane Crop" in the International Journal of Scientific Research in Computer Science, Engineering and Information Technology with ISSN No.2456-3307

Prof. P. R. Makkar published an International paper on "Pilot drowsiness detection System" in the GIS science Journal with ISSN No.1869-9391.

Prof. R. S. Paswan published an International paper on "Optimize Engagement Notification Delivery Across Platforms" in the JETIR Journal with ISSN No.2349-5162.

Prof. D. D. Kadam published an International paper on "Predicting Career Path using ML " in the International Journal for Research with ISSN No.2321-9653.

Prof. R. A. Kulkarni published an International paper on "Minimax Algorithm and Alpha-Beta Pruning for Game Development Using Blockchain " in the IJSR Journal with ISSN No.2319-7064.

Prof. Y. A. Handge published an International paper on "OPTIMIZING STOCK TRADING STRATEGY WITH REINFORCEMENT LEARNING" in the IJSR Journal with ISSN No.2319-7064.

Prof. K. C. Waghmare published an International paper on "A Comprehensive Study on Music Generation using Artificial Intelligence " in the Journal of Xidian University with ISSN No.1001-2400.

Prof. P. R. Navghare published an International paper on "A review Paper on Different Deep Learning Methodologies for User and Entity Behavior Analytics(UEBA) " in the International Journal of Research Publication and Reviews with ISSN No.2582-7421.

Prof. M. R. Jansari published an International paper on "Add Self-Learning ability to NLP for automatic test case generation" in the Iconic Research and Engineering Journals with ISSN No.2456-8880.

Prof. V. V. Bagade published an International paper on "Author Identification on Anonymous Regional Literature" in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) with ISSN No.2321-9653.

# ⟩⟩⟩ NEWSLETTER

Prof. V. V. Bagade published an International paper on "Author Identification on Anonymous Regional Literature" in the International Journal for Research in Applied Science & Engineering Technology (IJRASET) with ISSN No.2321-9653.

Prof. Rekha A. Kulkarni published an International paper on "Gan-Based Flood Visualization System Using Image Translation " in the International Research Journal of Modernization in Engineering Technology and Science with ISSN No.2582-5208.

Prof. U. S. Pawar published an International paper on "Extract Trends From Social Media Data " in the International Research Journal of Modernization in Engineering Technology & Science with ISSN No.2582-5208.

Prof. M. V. Mane published an International paper on "Summarization of research papers using NLP" in the Iconic Research and Engineering Journals with ISSN No.2456-8880.

Prof. V. S. Gaikwad published an International paper on "GRAPH BASED ABSTRACTIVE TEXT SUMMARIZATION OF YOUTUBE COMMENTS " in the International Journal of Science and Research with ISSN No.2319-7064.

Prof. A. R. Deshpande published an International paper on "A Comparative Study of Methods for Restaurant Recommendation System " in the International Journal of Creative Research Thoughts with ISSN No.2320-2882.

Prof. P. S. Vidap published an International paper on "Crop Suggestion and Nearest Market Place Recommendation " in the IRJMETS Journal with ISSN No.2582-5208.

Prof. P. J. Jambhulkar published an International paper on "Review on Different Algorithms for Disease Prediction " in the Iconic Research and Engineering Journals (IRE) with ISSN No.2456-8880.

Prof. G. P. Potdar published an International paper on "Chatbot Development Through the Ages : A Survey " in the International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT) with ISSN No.2456-3307.

Prof. S. S. Sonawane published a research paper on "NLP-Based Text Summarization of Fintech RFPs" in the 2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS).

>>> **NEWSLETTER**

Prof. P. S. Shahane published a research paper on "Real Time Face Recognition Based Attendance System using Multi Task Cascaded Convolutional Neural

Prof. P. A. Khadkikar published a research paper on "A Comparative Study of Driver Drowsiness Detection Techniques" in the IEEE- International Conference on Sustainable Computing and Smart Systems (ICSCSS 2023).

Prof. P. P. Joshi published a research paper on "Smart Task Board: Complete web accessible solution to modern task management " in the 2023 International Conference on Emerging Smart Computing and Informatics (ESCI-2023).

Prof. G. V. Kale and M. S. Wakode have published a research paper on "Contextual Flow of Information in Tourism using BLE Proximity Detection to Enhance the Tourism Experience" in the 2023 International Conference on Emerging Smart Computing and Informatics (ESCI-2023).

Prof. P. S. Vidap published a research paper on "Blockchain Solution to Electronic Healthcare Records" in 2023 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE).

Prof. G. P. Potdar published a research paper on "Calculation of Neural Network Weights and Biases using Particle Swarm Optimization" in INTERNATIONAL CONFERENCE ON "COMPUTATIONAL INTELLIGENCE AND XAI (ICCIXAI -2023).
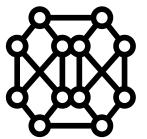
Prof. G. V. Kale and Prof. K. C. Waghmare wrote a chapter titled "Heterogeneous data management in IoT-based health care systems" in the book Artificial Intelligence for Internet of Things: Design Principle, Modernization, and Techniques, ISBN 9781003335801, published by CRC Press.

>>> **NEWSLETTER**

# STAFF CONTRIBUTIONS
# PATENTS

Prof. P. A. Khadkikar, in affiliation with PICT, was granted a design patent under the title 'NEONATAL HEATING BELT FOR HYPOTHERMIA' on May 18, 2023. (Patent application no. 381675-001).

Prof. K. C. Waghmare, in affiliation with PICT, applied for a patent under the title 'SYSTEM AND METHOD FOR IDENTIFYING SPEECH DISORDERS BY NATURAL LANGUAGE PROCESSING AND PROVIDING CORRECTIVE RECOMMENDATIONS' on June 16, 2023 (Patent Application No. -202321028902).

Prof. V. S. Gaikwad, in affiliation with PICT, applied for a system design patent under the title 'A SYSTEM AND A METHOD FOR PRIVACY PRESERVING CLASSIFICATION OVER A RELATIONAL DATA' on March 25, 2023 (Patent Application No. 202321021526).

Prof. G. V. Kale and Prof. M. S. Wakode, in affiliation with PICT, applied for a design patent under the title 'PERSONALIZED PHYSICAL ACTIVITY RECOMMENDATIONS SYSTEM USING FEDERATED LEARNING (FL) AND A METHOD' on April 22, 2023 (Patent Application No. 202321029305).

# CONSULTANCY AND MOU'S

- Prof. G. P. Potdar signed an MoU with iMocha (Tecknack Technologies Pvt. Ltd.) on February 21, 2023, for the duration of 1 year.

- Prof. G. V. Kale signed an MoU with Association for Socially Applicable Research (ASAR) on February 22, 2023, for a duration of 3 years.

- Prof. A. G. Phakatkar signed an MoU with Lightbeam Software Pvt. Ltd. on May 5, 2023, for the duration of 1 year.

Prof. S. S. Sonawane Received consultancy work and signed a MoU with ICMR-NARI in January 2023 for scientific collaboration. The overall objective of the collaboration is to facilitate capacity building for performing sentiment analysis of social media posts through training sessions and collaborative work done to achieve this capacity for further endeavors.

>>> NEWSLETTER

# STUDENT ACHIEVEMENTS

Vaibhav Sahasrabuddhe bagged the 3rd place in COEP Hackathon.

Parth Ostwal brought laurels by scoring 2.5/3 in COEP Zest 2023 in chess. He participated in the MMCOE coding contest where we cleared the MCQ round. He also became a 3-star coder at Codechef.

Abhay Gajanan Shanbhag won the 3rd place at INSPIRON as well as the Best UI award (total prize of 10,000), a 24hr hackathon organized by COEP CSI Club amongst 120+ teams.

Varsha Malode was the runner up in volleyball, as part of PICTs "Elevate".

# ALUMNI ACHIEVEMENTS

## AMIR HUDDA

Amir Hudda is a technology entrepreneur who has founded and grown four startups in the past 20 years. During that period, Amir has raised over $100M in equity (public and private markets) and debt transactions; acquired, scaled, restructured and sold several businesses, and invested in and mentored young entrepreneurs and companies.

Amir Hudda (1987 Batch) is recognized as a Top 25 Executive in Washington, D.C. for 2023 due to his exceptional leadership, unwavering commitment to excellence, and visionary mindset.

## APARNA PAPPU

Aparna Pappu (1995 Batch) , Vice President and General Manager, Google Workspace, speak at Google I/O on May 10, 2023, about updates coming to Google Workspace.

# SACHIN KULKARNI & NEHA NARKHEDE

Sachin Kulkarni (2005 Batch) and Neha Narkhede (2006 Batch) founded Oscilar in 2021 to decrease the risks involved with online transactions—mainly the risk of loan defaults and fraud with things like financial transactions and insurance—using artificial intelligence.

# PRATIK RATADIYA

Pratik Ratadiya (2020 Batch), has achieved an exemplary feat by joining NASA's Jet Propulsion Laboratory as a Visiting Researcher. He will be working in the Mission Control Deep Learning Group for the next three months to research and develop anomaly detection systems for NASA's Mars rover.

# SARISH NIGADE

Our exemplary alumnus Sarish Nigade (2022 Batch) successfully cleared the SSB interview for the CDS entry and achieved AIR 19 & AIR 61 in the Merit List for the Indian Naval Academy (INA) & Indian Military Academy (IMA) respectively.

# CLUB EVENTS

## INC
**DEPARTMENT COORDINATOR- PROF. G. P. POTDAR**



## ADDICTION

**DEPARTMENT COORDINATOR- PROF. S. N. GIRME**

# Paricharcha X Glitched

## DEPARTMENT COORDINATOR- PROF. M. S. TAKALIKAR

# Credenz

## DEPARTMENT COORDINATOR: PROF. M. S. WAKODE

PICT IEEE Students Branch had organized a Distinguished Lecture on "Scope of Microwaves and Antennas in Modern Communication systems" by Prof. Changzhi Li, Professor, Texas Tech University, Distinguished Microwave Lecturer, IEEE MTT-S on 19-04-2023. Prof. Li delivered an insightful presentation on Wireless Communication, captivating the audience with his extensive expertise in the field.

PICT IEEE Students Branch had conducted the Clash RC event in Credenze-23 with an impressive international participation. The CodeChef Global Contest Participants showcased their coding prowess, expanding their horizons and contributing to the vibrant global coding community.



Global Contenders were from Bangladesh, Egypt, Japan, Bangladesh, Singapore, China, United States, Belarus, Ukraine, Russia

# ABHIVYAKTI
## DEPARTMENT COORDINATOR: PROF. M. S. TAKLIKAR

# Nakshatra

**DEPARTMENT COORDINATOR:PROF. P. S. JOSHI**

>>> **NEWSLETTER**

# PULZION
## DEPARTMENT COORDINATOR: PROF. G. V. KALE



SCTR's PICT ACM Student Chapter (PASC) has won the "Student Chapter Excellence Award for Outstanding Chapter Website!" with a prize of $500 and Chapter is also winner of ACM India Best Chapter Award 5 Times.

>>> **NEWSLETTER**



Codelicious- International competitive programming event hosted by PICT ACM Student Chapter (PASC), attracted participants from around the globe, including countries such as the US, Japan, Bangladesh, Ukraine, Belarus, Vietnam, China, Argentina, Russia, and Pakistan. With 430+ participants and 1800+ submissions, the event showcased the programming skills of individuals from diverse backgrounds

135
PAPERS

4
Total
Rs.12,31,00

5
BOOKS

141

8

199

36

272

RESEARCH   CONSULTANCY

PUBLICATIONS

PATENTS

FDP ATTENDED

INTERNSHIP

PLACEMENT

ACTIVITIES

# SUMMARY

105 PAPERS

271

PUBLICATIONS

PLACEMENT

395 INTERNSHIPS

51 ORGANISED

EVENTS

SUMMARY

SPORTS

30

CERTIFICATES

207 CERTIFICATE COURSES

TECHNICAL

CULTURAL

229 WINNERS

55