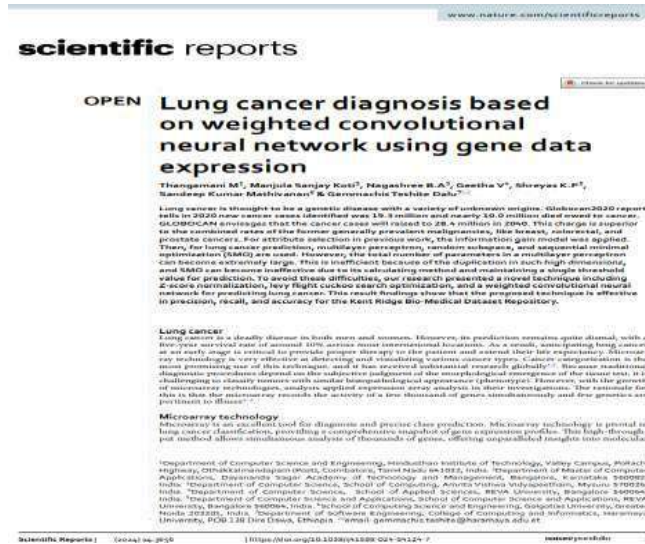


Faculty Achievements - 2024

PUBLICATIONS

Dr. Manjula, HOD-MCA has published an article “Lung cancer diagnosis based on weighted convolutional neural network using gene data expression” in the Journal of “Scientific Reports” (Q1) indexed in WOS.



Dr. Manjula, HOD-MCA published an article “Multi-Criteria Decision-Making for Energy Management in Smart Homes Using Hybridized Neuro-Fuzzy Approach ” in the Journal of “Distributed Generation and Alternative Energy Journal” (Q3)



Multi-Criteria Decision-Making for Energy Management in Smart Homes Using Hybridized Neuro-Fuzzy Approach

U. V. Anbazhagu¹, Manjula Sanjay Koti², V. Muthukumar^{3,*}, V. Geetha⁴ and Meram Munrathnam⁵

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Publication 02 November 2023

Abstract

The necessity for smart energy oversight solutions has arisen in response to the rising popularity of energy-efficient home automation and other energy-saving technologies. Optimizing smart home energy use using multi-criteria decision-making (MCDM) is a proven methodology. However, the procedure

PATENTS

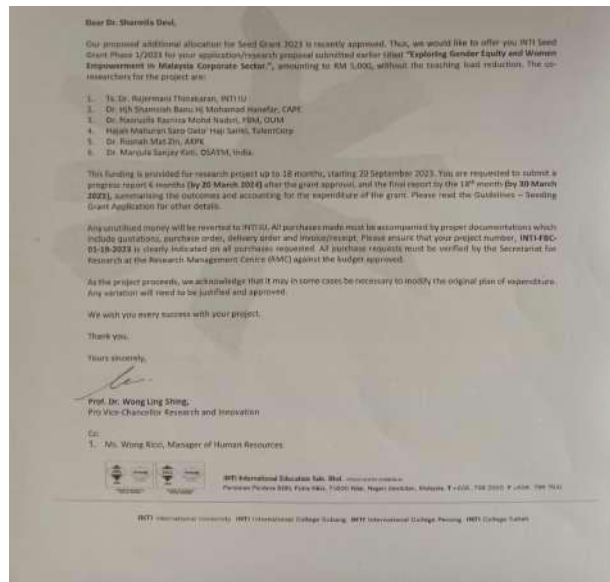
Dr. Manjula, HOD-MCA, has published a Patent on “IOT-ML Med Optimizer: A machine learning-based approach for optimizing medication dosage and delivery using Internet of things data” on 08-02-2024.



(12) PATENT APPLICATION PUBLICATION	(21) Application No.202441008553 A
(19) INDIA	
(22) Date of filing of Application :08/02/2024	(43) Publication Date : 08/03/2024
(54) Title of the invention : IOT-ML MEDOPTIMIZER: A MACHINE LEARNING-BASED APPROACH FOR OPTIMIZING MEDICATION DOSAGE AND DELIVERY USING INTERNET OF THINGS DATA	
(51) International classification	(71)Name of Applicant :
(86) International Application No	1)Dr. Manjula Sanjay Kotti, Dayananda Sagar Academy of Technology & Management
Filing Date	Address of Applicant :Professor &Head, Department of MCA, Dayananda Sagar Academy Technology & Management, Bangalore, Karnataka, India, Bangalore -----
(87) International Publication No	2)Dayananda Sagar Academy of Technology & Management
(61) Patent of Addition to Application Number	Name of Applicant : NA
Filing Date	Address of Applicant : NA
(62) Divisional to Application Number	(72)Name of Inventor :
Filing Date	1)Dr. Manjula Sanjay Kotti, Dayananda Sagar Academy of Technology & Management
	Address of Applicant :Professor &Head, Department of MCA, Dayananda Sagar Academy Technology & Management, Bangalore, Karnataka, India, Bangalore -----
	2)Dayananda Sagar Academy of Technology & Management
	Address of Applicant :Department of MCA, Dayananda Sagar Academy Technology & Management, Bangalore, Karnataka, India Bangalore -----
(57) Abstract :	
IoT-ML MedOptimizer is a novel system that leverages machine learning algorithms and internet of things (IoT) data to optimize medication dosage and delivery for individuals. The system collects multimodal data from various sources, including wearables, sensors, medical devices, and electronic health records (EHRs), to generate personalized medication plans tailored to each patient's unique needs. The system uses advanced machine learning models that take into account patient characteristics, medical history, and real-time health status indicators to determine the most effective medication dosages and schedules. IoT-ML MedOptimizer continuously learns from new data inputs, adapting its recommendations based on changing patient conditions.	
No. of Pages: 8 No. of Claims : 2	

RESEARCH FUNDING

Dr. Manjula, HOD-MCA received Research Funding Amount of Rs.1,00,000/- for the Research Topic “Exploring Gender Equity and Women Empowerment in Malaysia Corporate Sector”



INTERACTION WITH THE OUTSIDE WORLD

Dr. Manjula, HOD- MCA, participated in the Industrial Event “AWS Skill Builder” organized by Amazon, on Sep 18,2024.



Dr. Manjula, HOD-MCA was the resource person for the National Level Workshop on “Quantum Computing Technologies : Exploring Interdisciplinary Frontiers ” organized by AACST on August 22, 2024.



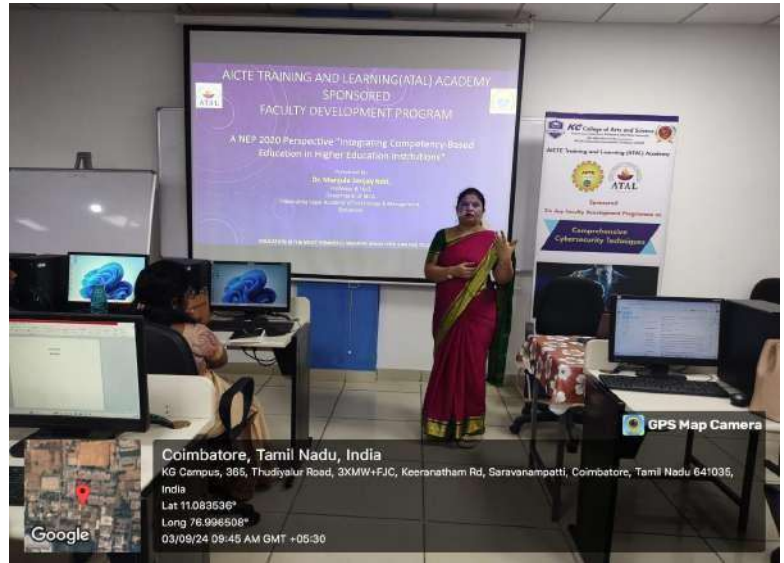
Dr. Manjula , HOD-MCA attended a Workshop on “AICTE approval process 2024-2025” at Jnana Jyothi Auditorium Bengaluru.



Dr. Manjula, HOD-MCA, delivered Technical Talk on “Digital Pedagogy : Incorporating ICT in Teaching and Evaluation” at Surana College, Bangalore on 8th July 2024

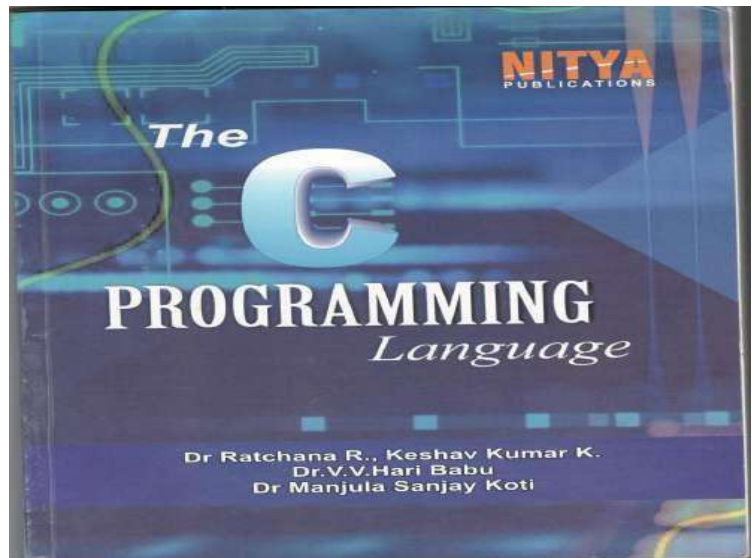


Dr. Manjula, HOD-MCA, was the resource person for the ATAL-FDP on “Comprehensive Cyber Security Techniques” organized by KG College of Science, Coimbatore on Sep 3,2024.



BOOKS

Dr. Manjula, HOD-MCA published a book on “The C Programming Language”, Nitya publications



Dr. Chitra K ,Associate Professor , Department of MCA, has published a Patent on “Robust Encryption and Access Control Mechanisms for Ensuring Confidentiality in Cloud-Based Data Storage” on 08-03-2024.



Office of the Controller, General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India
(<http://ipindia.nic.in/index.htm>)

INTELLECTUAL PROPERTY INDIA
www.ipindia.nic.in

(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	202441011307
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/02/2024
APPLICANT NAME	1. Dr. Chitra K 2. Dr. Parimal Kumar Giri 3. Mr. Konda Redy Lingaladinne 4. Naveen Sai Krishna Amuluru 5. Veeresh Naidu Gutta 6. Mr. Sai Charan Sunkara 7. Mr. Kattoth Balakrishna Maruthiam 8. Mr. Prateek Srivastava 9. Mr. Panchajaju Pagidimala 10. Bhoolya Rajkumar 11. Dr. Harikumar Pallathadka
TITLE OF INVENTION	ROBUST ENCRYPTION AND ACCESS CONTROL MECHANISMS FOR ENSURING CONFIDENTIALITY IN CLOUD-BASED DATA STORAGE
FIELD OF INVENTION	COMPUTER SCIENCE

Dr. Chitra K, Assoc. Prof., Dept. of MCA, was the resource person for the National Level Workshop on “Quantum Computing Technologies : Exploring Interdisciplinary Frontiers ” organized by AACST on August 22, 2024.



ASSOCIATION OF ALL COMPUTER SCIENCE TEACHERS (AACST)
22nd August 2024

ONLINE WORKSHOP ON
QUANTUM COMPUTING TECHNOLOGIES: EXPLORING INTERDISCIPLINARY FRONTIERS

Dr. Chitra K
Associate Professor,
Department of MCA,
Sri Venkateswara Jagad Academy of Technology and Management
Bangalore

Subject: Appreciation for being Resource person for a session of Online Workshop on “Quantum Computing Technologies: Exploring Interdisciplinary Frontiers” - 22nd August to 24th August 2024.

Dear Madam,

I am truly honoured to thank you for being the Resource person for the session 22nd 2024 “Quantum Computing: Driving Innovation in Environment and Sustainability” on 22nd August 2024, 9:30 to 11:00 PM.

Your invaluable expertise and insightful contributions were instrumental in the success of this event.

We look forward to your continued support and collaboration in our future endeavours.

Thanks and Regards,

Chitra K
Dr. Chitra K
Workshop Convener
AACST Bangalore Unit Event Coordinator

BOOKS

Dr. Chitra K Associate Professor, MCA published a Book on “BlockChain Technology”



Faculty Development Programme(FDP)

Dr. Chitra K , Associate Professor, Department of MCA attended Faculty Development Program on “Social Emotional Learning” from 16 To 17 January 2024.



Dr. Chitra K ,Associate Professor , Department of MCA, attended the International Faculty Development Program on “Advanced Research Methodology and AI” from 18 To 23-03-2024.



Dr. Chitra K, Assoc. Prof., Dept.. of MCA, Attended FDP on “Deep Learning and Its Cutting-Edge Application(DLCEA)” from 1st -6th April, 2024.



Dr. Chitra K, Associate Prof., Dept. of MCA, Completed Online Course on “Google Cybersecurity”, from Google



Chetankumari N, Asst. Prof., Dept. of MCA, participated in the FDP on “Data Visualization using Tableau” on April 1-5,2024.



CONFERENCE PUBLICATION

Ushashree R Assistant Professor, Department of MCA published a Paper on “IOT-Cloud enabled Health Care monitoring system: Implementation of Patient’s alert system through smart device prediction using Artificial Intelligence Technology ” indexed in IEEE Xplore



Ushashree R, Asst. Prof., Dept. of MCA, participated in the FDP on “Artificial Intelligence Workshop” held on April 19-20,2024.



 **Artificial Intelligence Medical & Engineering Researchers Society** 

CERTIFICATE OF PARTICIPATION

This is to certify that

Ushashree R

Has participated in the first workshop of the series, titled “Artificial Intelligence Workshop,” held on April 19-20, 2024. This intensive workshop covered a broad range of topics designed to enhance knowledge and practical skills in the field of artificial intelligence. It was organized by the Artificial Intelligence Medical & Engineering Researchers Society. We look forward to Ushashree R's continued participation in the upcoming workshops in this series.

Topics Covered:

• Generative AI	• Visual Question Answering
• Document Questions Answering	• Evaluation and Application of Vision, Mapping Face Models
• Text Generation Models	• Advanced Prompting Techniques
• Image and Video Generation	• Summarization Tasks
• Using Pre-trained Models like Llama2, GPT4o	• Fine-tuning Techniques for Llama2
• Exploring Datasets for AI Applications	• Exploring Chat Algorithms

We commend the participation and engagement demonstrated and wish continued success in future endeavors in artificial intelligence and related fields.

Certificate ID: AIMERS-W501-102

Sai Satish
D. Sai Satish, President, AIMERS Society

www.Aimers-Society.com | info@AimersSociety.com | Mobile: +91-9638222220
AIMERS Society, a group of enthusiastic, talented, and driven researchers from the Engineering and Medical fields coming together to work on improving healthcare using Artificial Intelligence

Mrs. Ushasree R, Asst. Prof., Dept. of MCA, participated in the FDP on “Unlocking Social Science Research: From Methodologies to Funding” held on May 9,2024.



Priyanka Mohan, Asst. Prof., Dept. of MCA, participated in the FDP on “The Cadet Citation” on April 13,2024



Priyanka Mohan, Asst. Prof., Dept. of MCA, participated in the FDP on “Professional Ethics at Workplace” on April 13,2024.



Priyanka Mohan, Asst. Prof., Dept. of MCA, participated in the FDP on “National Security Database program” on April 13,2024.



Diwakar Vasuman M S, Assistant Professor, Department of MCA attended Faculty Development Program on “Social Emotional Learning” from 16 To 17 January 2024.



Priyadarshini S, Asst. Prof., Dept. of MCA, participated in the FIP on “Python for Data Science”, from Infosys Springboard.



Priyadarshini S, Asst. Prof., Dept. of MCA, participated in the FIP on “Natural Language Processing for developers”, from Infosys Springboard.



||||| COURSE COMPLETION CERTIFICATE |||||

The certificate is awarded to

priyadarshini siddaiah

for successfully completing the course

Natural Language Processing for developers

on July 6, 2024



Congratulations! You make us proud!



Issued on: Saturday, July 6, 2024
To verify, scan the QR code at <https://infy.com/verify>

Thirumala Arshi
Executive Vice-President and Global Head
Education, Training & Assessment (ETA)
Infosys Limited