Indian Institute of Technology Pelhi

Upon the recommendation of the Senate hereby confers the degree of

Poctor of Philosophy

on

Ram Prakash Rustagi

Thesis title:

Studies in Concurrency Control for Centralized, Distributed and Nested Transaction Systems

Given this day under the seal of the Institute at Pelhi in the Republic of India.

The 14th August, 1999

Alicecton &

Nouch of Cabernors

Registrar



This is to certify that VANEETA M

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

NOVEL KEY DISTRIBUTION AND SECURITY FRAME WORK FOR NODE LEVEL COMMUNICATION FOR WIRELESS SENSOR NETWORKS

in recognition of the fulfillment of requirements for the said degree

PH 001635

Given under the seal of the University

USN: 1KS15PEJ04

BELAGAVI

DATE

MARCH 10, 2022



This is to certify that AMULYASHREE S

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

DESIGN A ROBUST FRAMEWORK WITH AN EFFICIENT LINK MINING ALGORITHM FOR SOCIAL AND BIOLOGICAL NETWORKS

in recognition of the fulfillment of requirements for the said degree

PH 00335

Given under the seal of the University

USN: 1RV16PEJ23

BELAGAVI

DATE: FEBRUARY 24, 2023



IAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 688185







H.T No.: 0703PH0614

Ms. Rekha B Venkatapur D1o. Venkatapur B

having fulfilled the academic requirements in June, 2016 has this day been admitted by the Executive Council to the Degree of

Doctor Of Philosophy Computer Science And Engineering

Topic: A Robust Hierarchical Clustering Algorithm for Video Watermark

Given under the Seal of the University

Date:09-09-2016

Halalah p

Alea Ox



PC No 316000364

KS. HISTITUTE CH TENTANTE BENGALURU - 580 109



Reg.No. 11090053017/RG

The Syndicate of the Anna University hereby makes known that PRASANTHA HS has been admitted to the DEGREE OF DOCTOR OF PHILOSOPHY under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year 2013.

Title of the Thesis:

DIGITAL SIGNAL PROCESSOR IMPLEMENTATION OF SOME NOVEL ALGROTHMS FOR VIDEO PROCESSING ON MOBILE DEVICESS

Given under the Seal of the University



Chennai 600 025 India

March 2013

Controller of Examinations

Registrar Vice-Chancellor

中中中中中中中中中中中中中中中中中中中中中中中中中

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI KARNATAKA, INDIA



This is to certify that VIJAYALAXMI MEKALI

has been conferred the Degree of

Form of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

MEDICAL IMAGE ANALYSIS USING COMPUTATIONAL METHODS TO DETECT AND DIAGNOSE CANCER TUMOR

in recognition of the fulfillment of requirements for the said degree

001651 Given under the seal of the University

USN: 1RN13PEN05

BELAGAVI

DATE : MARCH 10, 2022

3____

CC 051364

COS1364 NEHRU TECHNOLOGICAL UNIVERSITY ANANYAPIA





ANANTAPUR - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 0803PH0822

Pattipathi Naga Sudha

DIo Ranga Reddy B

having fulfilled the academic requirements in November, 2013 has this day been admitted by the Monitoring A. Development Committee to the Degree of

Doctor of Philosophy

(Electronics & Communication Engineering)

for the Thesis entitled. "SPEECH COMPRESSION AND ERROR CORRECTION FOR MOBILE COMMUNICATION"

Monday, 16 December, 2013.

Given under the Seal of the University

Director of Evaluation

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 688303







H.T No.: 0803PH08A42

Ms. Surekha Borra D/o. Venkata Narayana

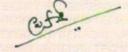
having fulfilled the academic requirements in February, 2015 has this day been admitted by the Executive Council to the Degree of

Doctor Of Philosophy
Electronics & Communication Engineering

Topic: Image Data Hiding for Copyright Protection based on Visual Cryptography Schemes

Given under the Seal of the University

Date: 17-09-2016



DIRECTOR OF EVALUATION



Acleany



PC No 2177702641 \$ 000 -

ENROLMENT NO.: AU141787



Hereby confers the degree of

DOCTOR OF PHILOSOPHY



In

Electronies & Communication Engineering

on

Sangappa

who has fulfilled all the requirements prescribed under the regulations and successfully defended the thesis on

14th, July 2017

entitled

A Cross Layer Architecture Based Robust Routing Protocol for Inter-Vehicular Communication in VASNET

एतद द्वारा प्रदान करता है

जॅक्टर ऑफ फिलॉसफी

की उपाधि

इलेक्ट्रॉनिक्स एण्ड कम्प्युनिकेशन इंजीनियरिंग

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संगप्पा

को उनके द्वारा अवाप्ती देतु विनियम विष्ठित सभी आहर्ताओं को पूर्णकर अपने शोध प्रबंध को 14 जुलाई 2017 में

सफलतापूर्वक प्रस्तुत करने पर, जिसका शीर्वक है : अ क्रॉस लेयर आर्किटेक्चर बेस्ड रोबस्ट राऊटिंग प्रोटोकॉल फॉर इन्टर-व्हीकूलर कम्युनिकंशन इन वासनेट

Given this day under the seal of the University at Raisen (Madhya Pradesh) in the Republic of India

Registrar

Date : 20/02/2018 Namen (N.P.) Splie Vice-Chancellor







This is to certify that

CHANDA V REDDY

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Electrical & Electronics Engineering Sciences

for the thesis entitled

Bit Loading Algorithm With Optimised Bitrate And Power
Allocation In Wireless Communication System

in recognition of the fulfillment of requirements for the said degree

PH 001433

Given under the seal of the University

USN: 1RV10PEN01

BELGAUM

DATE

March 18, 2019



This is to certify that REKHA N

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

NOISE CANCELLATION IN GSM LOGICAL CHANNEL USING SEARCH ALGORITHM

in recognition of the fulfillment of requirements for the said degree

PH 000746

Given under the seal of the University

USN: 1KS14PEM01

BELAGAVI

DATE

APRIL 03, 2021



This is to certify that DINESH KUMAR DS

has been conferred the Degree of

Moctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

A NOVEL MULTI ALGORITHM BASED SPEECH & FACE RECOGNITION (MULTI MODAL) SYSTEM FOR THE ANALYSIS OF FAR & FRR

in recognition of the fulfillment of requirements for the said degree

명 001061

Given under the seal of the University

USN: 1TJ12PEN04

BELAGAVI

DATE :

APRIL 03, 2021



This is to certify that

DEVIKA B

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

OPTIMIZING POWER IN AD HOC NETWORKS

in recognition of the fulfillment of requirements for the said degree

PH 000811

Given under the seal of the University

USN: 1KS14PEM03

BELAGAVI

DATE

APRIL 03, 2021



This is to certify that POOJAS

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

A HYBRID REGULARIZATION ALGORITHM FOR EFFICIENT BLIND IMAGE DEBLURRING

in recognition of the fulfillment of requirements for the said degree

PH 23 00872

Given under the seal of the University

USN: 1JS17PES04

BELAGAVI

DATE: FEBRUARY 24, 2023

S. Minterson



Indian Institute of Technology, Madras

hereby confers the degree of

Doctor of Philosophy

of the Institute

VENKATESWARA ALIAS BALAJI K

for successfully completing the prescribed programme of study and presenting the thesis entitled

> A STUDY OF SOME PSYCHOLOGICAL ANTECEDENTS IN INDUSTRIAL ACCIDENTS

Given this day the Twentysixth of July, 1996 K.S. INSTITUTE OF TECHNOLO under the seal of the Institute.

Registrar / Director

D. I fromwather Chairman Board of Governors Registration No.





National Institute of Technology Karnataka, Surathkal

hereby confers the degree of

Doctor of Philosophy

on

Dilip Kumar K

in recognition of the research work on

Computer Aided Prediction Of Forming Severity In L-Bending Of Aluminium Sheet
Metal

carried out in the Department of

Mechanical Engineering

and completed all the requirements

in May 2009

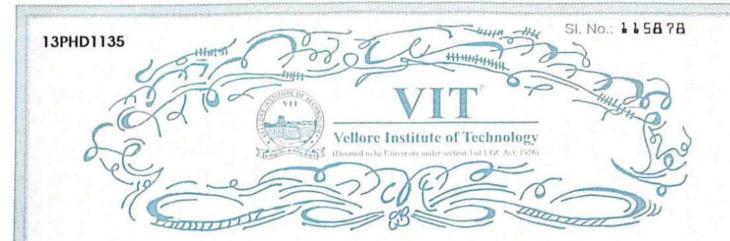
Given under the seal of the Institute,

on 5th May 2010

Registrali Sl. No. PH09036 Alandy Director

-C. ment

Chairman, Board of Governors





The Board of Management of the Vellore Institute of Technology (VIT) hereby confers on



M UMASHANKAR

the degree of

DOCTOR OF PHILOSOPHY

in recognition of the research work entitled

TRIBOLOGICAL STUDIES ON ZINC-ALUMINIUM CAST ALLOYS

for having fulfilled the prescribed requirements.

The degree has been awarded in compliance with the "University Grants Commission, Regulation 2009"

given this day the 16 June 2021



Given under the seal of this university

NB Codoli Vice - Chancellor

Chancellor

Dated: 08-Oct-2021

Vellore - 632 014, Tamil Nadu, India



This is to certify that

NAGAPRASAD K S

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

A Study on Effect of Fluid Injection on Diesel Engine Performance and Emissions

in recognition of the fulfillment of requirements for the said degree

19 000332

Given under the seal of the University

USN: 1DA08PMN03

Э

BELAGAVI

DATE

Feb 08, 2020

8



This is to certify that

GIRISH T R

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

Development And Characterization of Hybrid Composite Using
Jute And Glass Fiber

in recognition of the fulfillment of requirements for the said degree

PH 001511

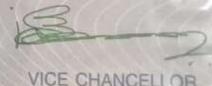
Given under the seal of the University

USN: 5VX12PMN37



BELGAUM DATE : March

March 18, 2019



Scanned with CamScanner

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 067139

H.T.No:10PH0340

Aadhaar No: 890764913798







L'ONixmala

D/o. L Rangaiah G Lingutla Ramathulasi

having fulfilled the academic requirements in August, 2019 has this day

been admitted by the Executive Council to the Degree of

... Doctor of Philosophy ...

(Mechanical Engineering)

for the Thesis entitled, *STUDIES ON ABRASIVE WEAR, CORROSION RESISTANCE AND MICROSTRUCTURAL PROPERTIES OF ZA27 NICKEL ALLOY"

Date of Viou Voce: 24.08.2019 Given under the Seal of the University

Saturday, 24 April, 2021.

P-020

HYDERABAD - 500 085, TELANGANA STATE, INDIA

s 1503275





No.: 0903PH1526

Mr. Saleem Khan

Slo. Gulam Hussain fulfilled the academic requirements in November - 2020 een admitted by the Executive Council to the Degree of

> Doctor of Philosophy Mechanical Engineering

Topic: "Development of Hybrid Al6061-Si, Nz-C, Metal Matrix Composite".

Given under the Seal of the University

e: 26-02-2022



PC No



This is to certify that

JALAJA P

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (MATHEMATICS)

for the thesis entitled

A NUMERICAL STUDY OF UNSTEADY INCOMPRESSIBLE BOUNDARY LAYER THROUGH DOUBLE CHOKING SUPERSONIC EJECTORS

in recognition of the fulfillment of requirements for the said degree

001156

Given under the seal of the University

USN: 1EW15PGJ04

0

BELAGAVI

DATE

: APRIL 03, 2021



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ, We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor, ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು the members of the Academic Council and the Syndicate

Certify that

KIRAN KUMAR S R

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ, on the recommendation of the Board of Examiners, admitted to the degree of

Doctor of Philosophy (Chemistry)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ in recognition of the fulfilment of requirements ೩೦ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. for the said Degree at the THIRTIETH Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 12/06/2019 ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 29th July 2020 ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ. Given under the seal of the University.



Jnana Sahyadri, Shankaraghatta-577451 Shivamogga District, Karnataka, India

Date of Issue: 29/07/2020

KUS



(goldenothodolpgo ಕುಲಪತಿ Vice-Chancellor



பாரதியார் பல்கலைக் கழகம் Bharathiar University

அறிவியல் புலம்

FACULTY OF SCIENCE

பாரதியார்	பாரதியார் பல்கலைக் கழகத்தால்	ழகத்தால்	முறையாக	9	அமைக்கப்பட்ட	தேர்வாளர்	G .
ரேணுகா ச,		2018ஆம் ஆண்டு, நவம்பர் 22ஆம்	22 Byi	फ़ारनी र ्	இயற்பியல்	என்னும்	பிரிவில்
ஆய்வியல் அறிஞர்	அறிஞர்	என்னும்	سترست	பெறத்	தகுதியடைந்திருப்பதாகச்	5ार क	ச ான்றளித்ததை
ஏற்று.	அவருக்கு	அந்தப்	பட்டத்தைப்	ב	பல்கலைக் கழக		இலச்சினையுடன்.
பாரதியார் ட	பல்கலைக்	கழக	ஆட்சிக் குழு வ	வழங்குகின்றது.			



Given under the Seal of the University.

PHYSICS,

in

DOCTOR OF PHILOSOPHY

RENUKA C

that

umous

makes

hereby

University

Bharathiar

admitted

been

has

Syndicate

The

having been certified by duly appointed Examiners to be qualified to receive the same on 22nd NOVEMBER 2018.



தேர்வாணையர்(பொ)

Dated:18th December 2019 Controller of Examinations i/c ISSUED ON • 3 0 C I 2020

| (ใบบบททาง เมริงมาสาท์(จิบภา) Registrar(i/c)

Sement Courses

Vice-Chancellor



This is to certify that VENKATARAMANA B S

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (MATHEMATICS)

for the thesis entitled

STUDIES ON POWER EXPONENTIAL MEAN IN SEVERAL VARIABLE AND ITS APPLICATIONS

in recognition of the fulfillment of requirements for the said degree

PH 001822

Given under the seal of the University

USN: 1JS15PGJ05

BELAGAVI

DATE :

. MARCH 10, 2022

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



This is to certify that MADHAVI. S

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (PHYSICS)

for the thesis entitled

STUDY ON PHYSICAL, THERMAL, AND MECHANICAL PROPERTIES OF BAMBOO POLYPROPYLENE COMPOSITE

in recognition of the fulfillment of requirements for the said degree

PH 00119

Given under the seal of the University

USN: 1GA16PGJ02

BELAGAVI

DATE FEBRUARY 24, 2023







ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ, We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor, ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು the members of the Academic Council and the Syndicate

Certify that

HARISHA S

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ, on the recommendation of the Board of Examiners, admitted to the degree of

Poctor of Philosophy (Chemistry)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ in recognition of the fulfilment of requirements ೩೦ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. for the said Degree at the THIRTIETH Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 27/04/2019 ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 29th July 2020 ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ. Given under the seal of the University.



Jnana Sahyadri, Shankaraghatta-577451 Shivamogga District, Karnataka, India

Date of Issue : 29/07/2020

KUS



go Vanada ada po ಕುಲಪತಿ Vice-Chancellor



This is to certify that

SHOBHA G

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (BIO-TECHNOLOGY)

for the thesis entitled

RAPID BIOSYNTHESIS OF COPPER NANOPARTICLE AND THEIR EFFECT ON AGRONOMICAL TRAITS OF LYCOPERSICON ESCULENTUM

in recognition of the fulfillment of requirements for the said degree

PH 000968

Given under the seal of the University

USN: 1MV13PGN04

BELAGAVI

DATE

APRIL 03, 2021