

UNIVERSITY OF MYSORE ವಿಶ್ವವಿದ್ಯಾನಿಲಯ ಮೈಸೂರು



We, the Vice-Chancellor, the Two Chancellors and
 Members of the Syndicate of the University of Mysore
 do hereby certify that

ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ವಿದ್ಯಾರ್ಥಿನಿಲಯ, ಅಧ್ಯಾಪನಿಕ, ವಿದ್ಯಾರ್ಥಿ
 ವಿಭಾಗದ ಅಧೀನದಲ್ಲಿ

KAMALAKSHI G

has been awarded the Degree of
 ಡಾಕ್ಟರೇಟ್ ಡಿಗ್ರಿ

DOCTOR OF PHILOSOPHY

in
Electronics

ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್

having been certified to have passed the prescribed examination
 ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ವಿದ್ಯಾರ್ಥಿನಿಲಯ, ಅಧ್ಯಾಪನಿಕ, ವಿದ್ಯಾರ್ಥಿ
 ವಿಭಾಗದ ಅಧೀನದಲ್ಲಿ

Title of the Thesis

Performance Analysis and Modification of BM3D Algorithm for De Noising Various Images

Prepared the thesis in English Language as per 2004 Regulation

Under the Guidance of

Dr. M.N. Shanmukha Swamy

Professor and Head of the University
 ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಪ್ರಾಚಾರ್ಯರು



Date of Examination
 17/03/2019

Roll No.
 20073

[Signature]
 Vice-Chancellor
 2019

PROVISIONAL CERTIFICATE



Certified that **Mr. PRAVEEN KUMAR K V** has been provisionally awarded **Ph.D.** in Computer Science Engineering under the faculty of Engineering and Technology of REVA UNIVERSITY for his thesis entitled **"Energy Efficient and Reliable Routing Protocols for Wireless Sensor Networks"** and he is eligible for receiving the degree certificate in the coming Annual Convocation.

Register No. : R14PCS014

Place: Bengaluru

Date: 11/12/2018

Registrar (Evaluation)

Principal
Sapthagiri College of Engineering
Chikkasandra, Hosaraghatta Road
Bangalore-560 057



0000780

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

Bangalore University



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು
the members of the Syndicate & Academic Council

Certify that

Sateesh Kumar.H.C

ಅವರು
ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ
has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

(Faculty of Engineering - Computer Science & Engineering)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ
in recognition of the fulfillment of requirements

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ
for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ: **2017**

Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:

Subject:

**Efficient Bimodal Authentication Algorithms using
Iris and Face Biometric Traits**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯಡಿ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore

ದಿನಾಂಕ

Date:

08/02/2018

[Signature]
Principal

Chikmagalur College of Engineering
Chikkagandla, Hasaraghatta Road
Bangalore-560 057

[Signature]
Vice-Chancellor



This is to certify that
PRAKASH JADHAV
has been conferred the Degree of
Doctor of Philosophy
in

Faculty of Electrical & Electronics Engineering Sciences

for the thesis entitled

*Bandwidth Reduction Of Virtual Multimedia Payload Using
Self-Modifying Wavelets And Implementation Of Tree-Based
Streaming Protocol Over Multimedia Networks*

*in recognition of the fulfillment of requirements
for the said degree*

PH
13

001966

Given under the seal of the University

USN: 1JS11PEN01

BELGAUM
DATE

March 18, 2019



Principal
Sapthagiri College of Engineering
Chikkasandra, Hesarghatta Road
Bangalore - 560 057

VICE CHANCELLOR

0000365

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ



Bangalore University



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾವಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor
 ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು
the members of the Syndicate & Academic Council

Certify that

Tulsidas.D

ಅವರು
 ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ
has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

(Faculty of Engineering - Mechanical Engineering)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಕಾರಣ
in recognition of the fulfilment of requirements

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ
for the said degree as indicated below

2017

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ:

Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ವಿಷಯ:

Subject:

"Structural design of blade root and strength evaluation in low pressure steam turbine blade"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore:

ದಿನಾಂಕ

Date:

27/01/2017

[Signature]

Principal

Sapthagiri College of Engineering

Chikkaeandra, Hosuragutta Road

Bangalore-560 057

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



This is to certify that

RAGHAVENDRA G DESHPANDE

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

*Studies On Role of Cryogenic Treatment On Tungsten Carbide
Cutting Tool Inserts In Improving Resistance To Flank Wear
In Machining C-45 Steel*

*in recognition of the fulfillment of requirements
for the said degree*

PH
13 001500

Given under the seal of the University

USN: 4MC06PMN04



[Signature]
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

BELGAUM

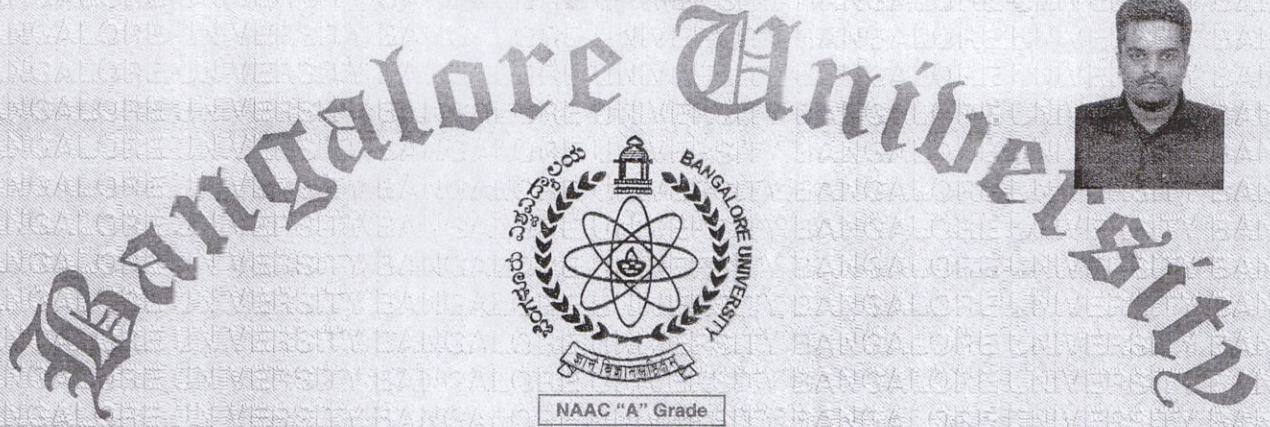
DATE : March 18, 2019

VICE CHANCELLOR

0001166

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ

A54-P1-111



ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ
We, the Chancellor, the Pro - Chancellor, the Vice - Chancellor
 ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು

the members of the Syndicate & Academic Council

Certify that

Basavaraju.S

ಆವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ
has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ
Doctor of Philosophy

(Faculty of Engineering - Mechanical Engineering)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಕಾರಣ
in recognition of the fulfilment of requirements
 ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ
for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ. **2018**

Year of Award :

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :

Title of the Thesis : **Studies on Mechanical and Magnetic Properties of Nickel Nano Particles in Polymer Matrix Composites**

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore :

ದಿನಾಂಕ

Date : **22 APR 2019**

Principal
Sapthagiri College of Engineering
 Chikkasandra, K. Nagaraghatta Road
 Bangalore - 560053
Vice Chancellor

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 500033



H.T No.: 0803PH1590

Mr. Annaiah
S/o. Hanumaiah

having fulfilled the academic requirements in *January, 2014*
has this day been admitted by the Executive Council to the Degree of

Doctor of Philosophy
Mechanical Engineering

Topic : Effect of Heat Treatment Variables on the Mechanical Properties, Wear and Corrosion Characteristics of Aluminium -Silicon-Magnesium Alloy

Given under the Seal of the University

Date: 04-09-2014



[Signature]
DIRECTOR OF EVALUATION

N.V.
REGISTRAR

[Signature]
Principal
Sapthagiri College of Engineering
Chikkasandra Besaraghatta Road
Bangalore- 560 057

[Signature]
VICE CHANCELLOR



4500014161866

PC No
27584578914

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ Bangalore University



OF QUALITY & EXCELLENCE
IN HIGHER EDUCATION



Approved by UGC

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು
the members of the Syndicate & Academic Council

Certify that

B. S. Krishna.....ಅವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ

has been duly admitted to the Degree of

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

Doctor of Philosophy

(Faculty Of Science - Chemistry)

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವುದನ್ನು ಪರಿಗಣಿಸಿರುವುದರಿಂದ

in recognition of the fulfilment of requirements

ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ

for the said degree as indicated below

ಪದವಿಯನ್ನು ನೀಡಿದ ವರ್ಷ:2003.....

Year of Award:

ಸಂಶೋಧನಾ ಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ : "Chemically Modified Clays

Subject : *as Inorganic Absorbents for Removing Toxic*
Materials from Aqueous Environment"

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ

Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore:

ದಿನಾಂಕ

Date: 31.01.2004

Principal

Sapthagiri College of Engineering
Gokulavandana, Hosuraghatta Road
Bangalore - 560 057

ಕುಲಪತಿ

Vice-Chancellor

Sri Siddhartha Academy Of Higher Education



(DEEMED TO BE UNIVERSITY)

Declared u/s 3 of the UGC Act, 1956, MHRD GOI No. F.9-31/2006-U.3 (A) dated: 30/05/2008

KARNATAKA

Accredited 'A' Grade by NAAC

*We, the Chancellor, the Vice-Chancellor and the members
of the Board of Management and Academic council confer*

DOCTOR OF PHILOSOPHY

MECHANICAL ENGINEERING

On

BASAVARAJ GANIGER

*In recognition of fulfillment of the requirements for the said
Doctoral Degree in the examination held during July 2019*

Given under the seal of the University, in the

8th Convocation held on 14th September 2019

**Title of Thesis: "Studies on Effect of Phosphorus Addition on Microstructure,
Mechanical and Elevated Temperature Sliding Wear Behaviour of Some
Commercially Available Hypereutectic Al-Si Alloys"**



Vice-Chancellor



Principal
Sapthagiri College of Engineering
Chikkamandra, Hesarghatta Road,
Bangalore-560 057

Reg.No. 13PH2ME001

Tumkur, Karnataka

Date: 14.09.2019

College: SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR



.....அறிவியல் புலம்
FACULTY OF SCIENCE

_____ 2003 _____ ஆம் ஆண்டில் சென்னைப் பல்கலைக்கழகத்தில் ஆய்வு நிகழ்த்தி
வழங்கிய ஆய்வேட்டுக்காக முனைவர் பட்டம் பெறத் தகுதியுடையவர் என்று தக்க
தேர்வாளர்களால் சான்றளிக்கப்பட்டு _____ ஹரிஷ் ரமணா
என்பவருக்கு முனைவர் பட்டம் அளிக்கப்படுகிறது என்று சென்னைப் பல்கலைக்கழகப் பேரவை
அறிவிக்கிறது.

சென்னைப் பல்கலைக்கழக இலச்சினையுடன், சென்னையில் _____ 2003 _____ ஆம் ஆண்டு
அக்டோபர் _____ திங்கள் _____ 9 _____ ஆம் நாள் அளிக்கப்பட்டது.

The Senate of the University of Madras hereby makes known that
_____ **HARISH RAMANNA** _____ *has been conferred the*

DEGREE OF DOCTOR OF PHILOSOPHY

he/she having been certified by duly appointed examiners to be qualified to
receive the same in the year _____ 2003 _____.

Given under the seal of the University of Madras, at Chennai this
_____ 9th _____ day of _____ October 2003 _____.

Title of the Thesis : "Intermittency and Diffusion in Non-Linear
ஆய்வுத் தலைப்பு : Dynamical Systems" (Nuclear Physics)

S. Iyammann
பதிவாளர்
Registrar



[Signature]
துணை வேந்தர்
Vice-Chancellor

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SHOBHA I HUGAR

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

DESIGN AND DEVELOPMENT OF DUAL-MODE RECONFIGURABLE
MICROSTRIP BANDPASS FILTERS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00474

Given under the seal of the University

USN: 1DA13PEN03



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR



DC No.: 0006590

(Established under Karnataka Act No.16 of 2013)
100 Feet Ring Road, BSK III Stage, Bengaluru - 560 085

DEGREE CERTIFICATE

The Board of Governors of PES University on the recommendation of the Academic Council hereby confers the degree of

Doctor of Philosophy

in

Civil Engineering

under the

Faculty of Engineering

on

Ms. RAJESHWARI R

(01PP14ECV022)



for the dissertation entitled

"Prediction of Compressive Strength of Fly Ash Concretes Using Soft Computing Techniques"

at the Convocation held on this EIGHTH DAY OF NOVEMBER, TWO THOUSAND TWENTY, at Bengaluru.

ಮೇಲ್ಕಂಡ ವಿವರಗಳುಳ್ಳವರನ್ನು ಅಧ್ಯಕ್ಷ ಮಂಡಳಿಯು, ಶಿಕ್ಷಣ ಪರಿಷತ್ತಿನ ಶಿಫಾರಿಸಿನ ಮೇರೆಗೆ, ಮೇಲೆ ನಮೂದಿಸಿರುವ ಪಿ. ಇ. ಎಸ್. ವಿಶ್ವವಿದ್ಯಾಲಯದ ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನುಳ್ಳವರೆಂದು ಅಂಗೀಕರಿಸಿದೆ.

ಕುಲಪತಿ
Vice-Chancellor
Vice-Chancellor
PES University

100 Feet Ring Road, BSK III Stage
Bengaluru - 560 085

HOD, Dept. of Civil Engg.
S.C.E, Bangalore-560 057



Principal
Sapthagiri College of Engineering
14/6, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

ಕುಲಾಧಿಪತಿ
Chancellor

Chancellor
PES University

100 Feet Ring Road, BSK III Stage
Bengaluru - 560 085

Dayananda Sagar University

Bengaluru, India.



*The Board of Governors and the Academic Council of
Dayananda Sagar University hereby confer upon*

Nagaraj A M

bearing USN: ENG16PPEC05

the degree of

Doctor of Philosophy

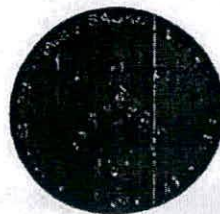
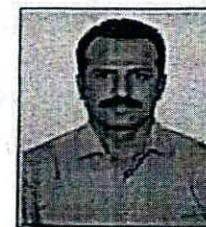
in Electronics and Communication Engineering

under the Faculty of Engineering and Technology

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

"Computation of Induced Voltages and Currents in the Aircraft Wiring due to Lightning Strike".

*In witness thereof, the undersigned have affixed their signatures and
the seal of the University, on Friday, 22nd day of January 2021.*



S. N. B. Murthy
Vice Chancellor

Muruganathan
Pro Chancellor

Alena Chandrasekhar
Chancellor