

भारतीय प्रौद्योगिकी संस्थान दिल्ली

अभिषद की अनुशंसा पर

विद्या वाचस्पति

की उपाधि

अभिषेक जिन्दल

को प्रदान करता है।

आपने इस उपाधि के अर्जन हेतु विनियम विहित निर्धारित अपेक्षाओं को जून 2017 में सफलतापूर्वक पूर्ण किया है।
शोध-प्रबन्ध शीर्षक : रिसोर्स एलोकेशन ऐण्ड परफॉरमेंस एनालिसिस फॉर सीक्रेसी इन एम्प्लिफाई- ऐण्ड —फॉरवर्ड रिले सिस्टम
भारतीय गणराज्य में दिल्ली स्थित संस्थान की मुद्रा अंकित यह उपाधि आज दिनांक 4 नवम्बर 2017 को प्रदान की गई।

Indian Institute of Technology Delhi

Upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

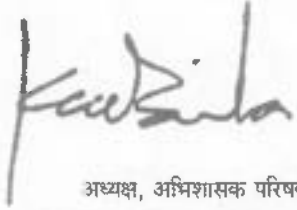
on

ABHISHEK JINDAL

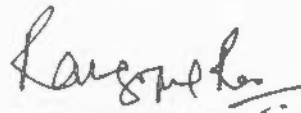
who has successfully completed the requirements under the regulations for the award of this degree in June 2017.

Thesis title : RESOURCE ALLOCATION AND PERFORMANCE ANALYSIS FOR SECRECY IN
AMPLIFY-AND-FORWARD RELAY SYSTEM

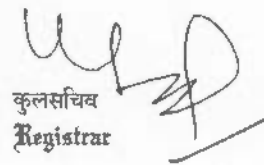
Given this day, the 4th of November 2017, under the seal of the Institute at Delhi in the Republic of India.



अध्यक्ष, अभिशासक परिषद
Chairman, Board of Governors



अध्यक्ष, अभिषद एवं निदेशक
Chairman, Senate & Director



कुलसचिव
Registrar



KØBENHAVNS UNIVERSITET
UNIVERSITY OF COPENHAGEN



AT THE PHD SCHOOL OF SCIENCE

ADITYA JAYANT TATU

CIV.REG.NO.: 070482-4157

HAS COMPLETED THE PHD-STUDY AT THE

DEPARTMENT OF COMPUTER SCIENCE

ON APRIL 28, 2010

ON THE BASIS OF THE THESIS

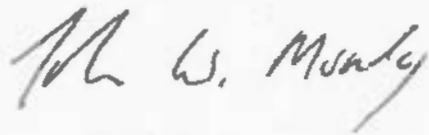
*Curve Evolution in Subspaces and Exploring the
Metameric Class of Histogram of Gradient Orientation
based Features using Nonlinear Projection Methods*

SUPERVISOR: Professor Mads Nielsen

IN ACCORDANCE WITH THE MINISTRY OF SCIENCE,
TECHNOLOGY AND INNOVATION ORDER NO.18 OF JANUARY
14, 2008 ON THE PHD PROGRAMME AT THE UNIVERSITIES

COPENHAGEN, JUNE 2, 2010


RALF HEMMINGSEN
RECTOR


JOHN MUNDY
ACTING DEAN



يونيڤرسيتي ملايا

UNIVERSITY OF MALAYA

It is hereby certified that

AHLAD KUMAR

having fulfilled the requirements prescribed by the University for the programme of study and with the assent of the Senate was awarded the

DEGREE OF
DOCTOR OF PHILOSOPHY



Senate Date : 29 September 2016

Tan Sri Professor Dr. Mohd Anan Jalaludin
Vice Chancellor

Yusoff Musa
Registrar



Cornell University

Be it known that

Alka Bhirendra Parikh

having satisfied in full the requirements for the degree of

Doctor of Philosophy

has been admitted to that degree with all
the rights, privileges and honors pertaining thereto
in witness of this action the seal of the University and the signatures
authorized by the Board of Trustees are affixed below

Given at Ithaca, New York, on the thirtieth day of May,
in the year one thousand nine hundred and ninety-three

Alvin P. Casarett
Dean



Frank H. Cross
President

North Carolina State University



On the recommendation of the Faculty and by virtue of the
authority vested in them, the Trustees of the University
have conferred on

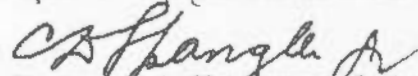
Amit R. Bhatt

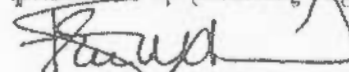
the degree of

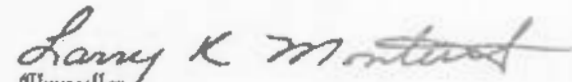
Doctor of Philosophy

In testimony whereof, the seal of the University and the
signatures of its officers are herewith affixed
this twentieth day of December, nineteen ninety-five.


Chairman of the Board of Governors


President of the University of North Carolina


Chairman of the Board of Trustees


Chancellor


Dean, Graduate School



Given under the
seal of the Institute

Dhirubhai Ambani
Institute of Information and Communication Technology

009726

hereby confers upon

Amit Kishorchandra Mankodi

the degree of

Doctor of Philosophy

in testimony of having completed the program in 2022



Gandhinagar
25 April 2022

President

Director

Indian Institute of Technology Delhi

Upon the recommendation of the Senate
hereby confers the degree of

Doctor of Philosophy

on *Anil Kumar Roy*

Thesis title :

*"Studies in Nonclassical States of Optical
Fields"*

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

The 23rd July, 1993.

M. Nigam
Director &
Chairman, Senate

[Signature]
Chairman
Board of Governors

[Signature]
Registrar





University of Wollongong

Anish Mathuria

has this day been admitted by the Council to the Degree of

Doctor of Philosophy

in Computer Science

The common Seal of the University was affixed hereto on

13 February, 1998

in pursuance of a Resolution of the Council as witness the hands of

Chancellor

Vice-Principal (Administration)

in whose presence the Seal was affixed



Carnegie-Mellon University

*upon recommendation of its Faculty,
hereby confers upon*

ANJAN KUMAR GHOSH

the degree of

DOCTOR OF PHILOSOPHY

*in recognition of
the completion of the course of study
prescribed for this degree
in the field(s) of*

ELECTRICAL ENGINEERING

*Given under the seal of
the corporation at Pittsburgh
in the Commonwealth of Pennsylvania
on May 14, 1984*

Louis M. Lederich
CHAIRMAN OF THE BOARD OF TRUSTEES

Richard M. Cyert
PRESIDENT



होमी भाभा राष्ट्रीय संस्थान
Homi Bhabha National Institute



होमी भाभा राष्ट्रीय संस्थान
एतद्वारा
डॉक्टर ऑफ फिलोसॉफी
की उपाधि
अनुज विजय टावरी
(गणितीय विज्ञान संस्थान)
को

सैद्धांतिक संगणक विज्ञान
में विधिवत् रूप से इसके योग्य पाने पर प्रदान करता है।
यह उपाधि उनके शोध-कार्य, जो निम्न शोध-प्रबंध
में परिणित हुआ, को मान्य पाने हेतु है।

Homi Bhabha National Institute
hereby confers the degree of
Doctor of Philosophy
on
Anuj Vijay Tawari
(The Institute of Mathematical Sciences)
in

Theoretical Computer Science
the student having been found duly qualified for
the same. This is in recognition of the research
work leading to following thesis.

Thesis Title: LOWER BOUNDS FOR READ-ONCE AND TROPICAL FORMULAS

परिणाम के अनुमोदन की तारीख Date of approval of result : April 02, 2019

अध्यक्ष, विद्या परिषद् Chairman, Academic Council

अध्यक्ष, प्रबंधन परिषद् Chairman, Council of Management

Enrolment No. MATH10201205003

HBNi is a University established under Section 3 of the UPCE Act, 1956 via Notification No. E-5/2004-177, dated 3rd Nov, 2005 of Government of India.
Regd. Office: Training School Complex, Anushaktinagar, Mumbai-400 094

Result Notified in: March, 2019

20050127



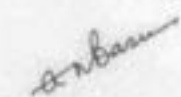
Jadaupur University

Certified that

Sri Arnab Kumar Ray

was admitted to the Degree of Doctor of Philosophy in Science of this University on 15/12/2004 and that the degree was conferred on him / her at the Convocation held in December 2005 with all the Rights and Privileges thereto appertaining.

In Witness whereof the Signatures of the Chancellor and the Vice-Chancellor of Jadaupur University are hereunto affixed.


Vice-Chancellor
The 24th December, 2005




Chancellor



National University of Ireland

This is to certify that on the 18th of June 2020

Arpit Rana

*was awarded the Degree of Doctor of Philosophy
in Computer Science*

*at University College Cork - National University of Ireland, Cork,
a Constituent University of National University of Ireland*



17th of December 2020

Alireza

Deputy

Registrar

INDIAN STATISTICAL INSTITUTE

203 BARRACKPORE TRUNK ROAD
KOLKATA - 700 108



This is to certify that Mr./ Ms. **Avijit Dutta** of Applied Statistics Unit has successfully completed the Research Methodology course recommended by RFAC of CCSD, during 2017-2018.

(Amita Pal)
Dean of Studies

Dated : 01 January 2018

(See overleaf for details of abbreviated forms)



भारतीय प्रौद्योगिकी संस्थान मुंबई

अभीक हाटी

को एतद्द्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषद की अनुशांसा पर संस्थान की मुद्रांकित यह उपाधि
अवासि हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर
तथा अपने शोध-प्रबंध के सफल पक्षपोषण के उपरान्त
मुंबई, भारतीय गणराज्य में आज 11 अगस्त, 2018 को दी गई है ।

Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

Avik Hattis

who has fulfilled the requirements for the degree as prescribed under the
regulations and successfully defended the thesis entitled:

“Robust and Efficient Unsupervised Image Co-segmentation.”

Given this day, under the seal of the Institute at Mumbai in the
Republic of India, the 11th day of August 2018.

अध्यक्ष, अभिषद
Chairman, Senate

कुलसचिव
Registrar

अध्यक्ष, शासी मंडल
Chairman, Board of Governors

Roll No.14EC92R01



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

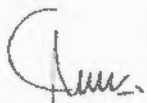
on

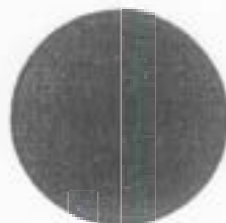
Ayan Palchaudhuri

in recognition of the research work on

FPGA Fabric Conscious Architecture Design and Inclusion of Testability for High Performance Implementations

Given under the seal of the Institute at Kharagpur on the Eighteenth day of December, Two Thousand and Twenty One


Registrar




Director

KAIST

Upon Recommendation of Faculty has Conferred on

BAKUL GOHEL

the Degree of Doctor of Philosophy
in Bio and Brain Engineering

*in recognition of the fulfillment of the requirements for the degree,
with all the honors, right and privileges thereunto appertaining
August 14, 2015*



A handwritten signature in dark ink, appearing to read 'S. M. Kang'.

Sung-mo Kang, Ph. D. PRESIDENT

The English and Foreign Languages University
Hyderabad 500 605, India



Controller of Examinations



This is to certify that

Mr. Bharani Kollipara

*having completed the course of study prescribed by the University and
having fulfilled the stipulated requirements by examination and by thesis
is hereby awarded the degree of*

DOCTOR OF PHILOSOPHY

in

English (English Literature)

Dated...01.04.2011...

Lata M
Registrar

Haroon
Vice-Chancellor

Devi Ahilya Vishwavidyalaya, Indore



[Doctor of Philosophy]

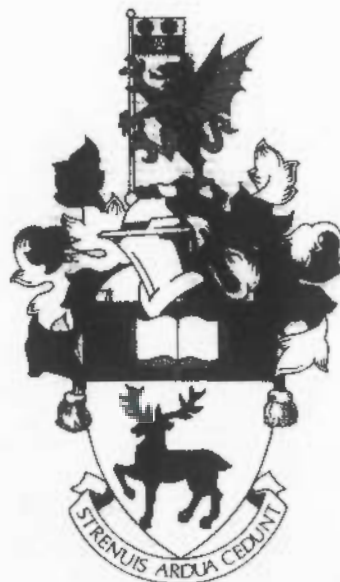
Certified that Bhaskar Chaudhury obtained
the degree of **DOCTOR OF PHILOSOPHY**
in Physics under the Faculty of
Science in the year 2009

Title of Thesis "Computational Studies of
Radar Cross Section of Plasma
Shielded objects"

Dated August 13, 2009

A. E. C.
Vice-Chancellor

9 NOV 2009 Date of Issue



University of Southampton

This is to certify that on

29 October 2007

BISWAJIT MISHRA

was awarded the degree of

DOCTOR OF PHILOSOPHY

in Electronics and Electrical Engineering

Vice-Chancellor

**Registrar and
Chief Operating Officer**

The University of Utah

Upon the Recommendation of the Faculty
in consideration of scholarly attainment has conferred on

Deepak Kumar Ghodgaonkar

the Degree of

Doctor of Philosophy

Electrical Engineering

with its Rights, Honors and Responsibilities

Given at Salt Lake City in the State of Utah on the twenty-first day of August,
nineteen hundred and eighty-seven.

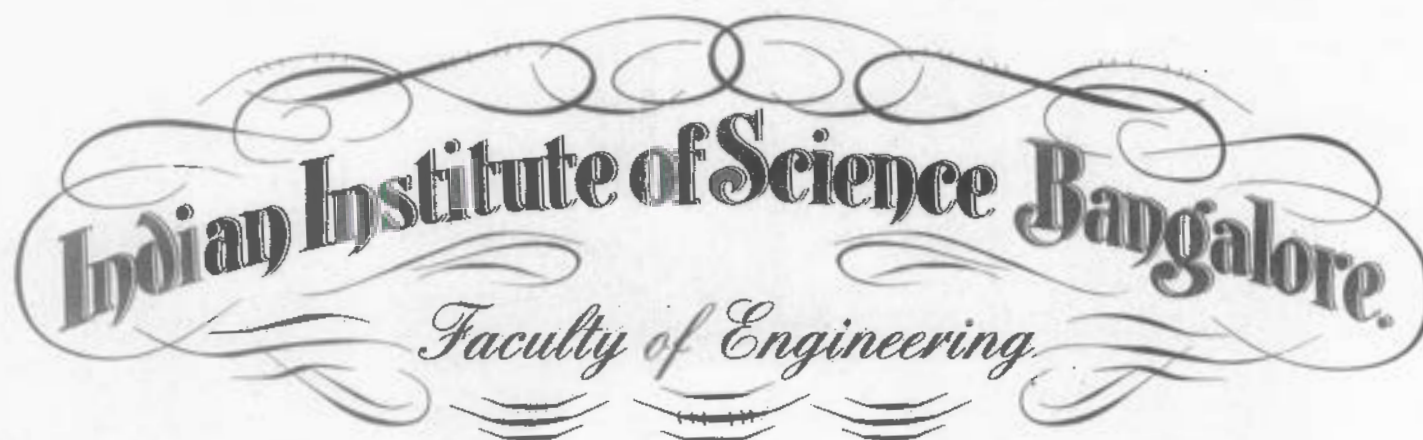
Wm. R. Keen
Commissioner of Higher Education

W. Eugene Hansen
Chairman, Utah State Board



Chase Peterson
President of the University

John D. Delaney
Chairman, Institutional Council



The Council on the recommendation of the Senate of the

Institute hereby confers on

Gagan Garg

the degree of

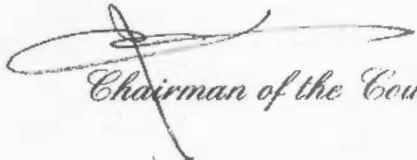
Doctor of Philosophy

in recognition of the research work on

**Analysis of a sieving heuristic for the number field sieve and
design of low-correlation CDMA sequences**

P. Balaram
Director

27 June 2010


Chairman of the Council



INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD
BOARD OF GOVERNORS

This is to certify that

Gaurav Kumar Singh

has satisfactorily completed the
Doctoral Programme in Management at
the Indian Institute of Management Ahmedabad,
and, upon recommendation of the Academic Council
and by action of the Board of Governors of the
Indian Institute of Management Ahmedabad,
has this day been duly awarded the degree of

DOCTOR OF PHILOSOPHY
(Ph.D.)

Given under our hands this Twenty-first Day of March
Two Thousand Twenty.

Title of the Thesis:

Essays on Inflation Expectations

Anand

CHAIRPERSON
DOCTORAL PROGRAMME

Sanjay D. Desai

DIRECTOR
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

Prabir

CHAIRPERSON, BOARD OF GOVERNORS
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

We, the Chancellor, Vice Chancellor and Members
of the Court of the Gujarat University certify

that the Degree of

Doctor of Philosophy
(Science)

*has been conferred on the twenty fifth day of
the month of April in the year one thousand
nine hundred and ninety nine at Ahmedabad, on
Dutta Gautam Lalbehari who has been found duly
qualified for the same.*

In Testimony whereof are set the Seal of the
said University and the Signature of the said
Chancellor.

Sundar Singh Sandars

Chancellor.

Indian Institute of Technology Bhubaneswar

11MA09001



upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

in

Basic Sciences (Mathematics)

on

Gopinath Panda

for his research work on

"Equilibrium analysis of Markovian/renewal input queues with or without impatient customers"

Given under the seal of the Institute at Bhubaneswar

on

the eighteenth day of March, two thousand and eighteen.

Registrar

Director

Indian Institute of Technology Kharagpur



*upon the recommendation of the Senate
hereby confers the degree of*

Doctor of Philosophy

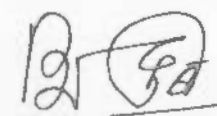
on

Patil Hemant Arjun

*who has successfully completed the prescribed requirements in the
Department of Electrical Engineering.*

*Given under the seal of the Institute at Kharagpur in the Republic of
India on the Fifteenth day of July, Two thousand six.*


Registrar


Director


Chairman
Board of Governors

UC DAVIS

This is to certify that
JAIDEEP MULHERKAR
has completed all requirements for the degree
DOCTOR OF PHILOSOPHY IN MATHEMATICS
to be formally awarded

June 11, 2009



Greg C. Gibelung
Dean

May 29, 2009
Date

Office of Graduate Studies



INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

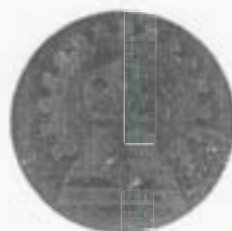
Lalchandani Jayprakash Thanwardas

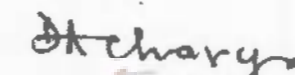
in recognition of the research work on

Slicing UML Models

Given under the seal of the Institute at Kharagpur on the Seventeenth day of July, Two Thousand and Ten


Registrar




Director



हैदराबाद विश्वविद्यालय University of Hyderabad

प्रमाणित किया जाता है कि
जेन्सोन जोसेफ

को

सरोजिनी नायडु कला एवं संचार
संकाय में

शोध-प्रबंध प्रस्तुत करने एवं सभी अपेक्षाओं को
सफलतापूर्वक पूर्ण करने पर सन् 2013 में

डॉक्टर ऑफ फ़िलॉसफी

की उपाधि प्रदान की गयी है



This is to certify that

JENSON JOSEPH

having submitted a thesis in the

Sarojini Naidu School of Arts and Communication

and having successfully completed all the requirements

has been admitted to the degree of

Doctor of Philosophy

in the year 2013

विश्वविद्यालय को मुहर के अधीन प्रदत्त
Given under the seal of the University

कुल सचिव
Registrar

कुलपति
Vice-Chancellor

हैदराबाद / Hyderabad, दिनांक / Dated 1 OCT 2013



Indian Institute of Technology Madras

hereby confer the degree of
Doctor of Philosophy
of the Institute
on

MADHU KANT SHARMA

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

**AN INVESTIGATION OF NONLOCAL FRACTIONAL ORDER FUNCTIONAL
DIFFERENTIAL EQUATIONS**

Given this day the Twentyfourth of July. 2015
under the seal of the Institute.



MA11D003

V.G.B.
Registrar

B. Ne.
Director

R. Srinivasan
Chairman, Board of Governors

UNIVERSITY OF CALCUTTA



This is to certify that

Madhumita Majumdar
obtained the degree of Doctor of Philosophy
(Arts) in History
in this University in the year 2005.

Senate House,
The 27th March, 2006

A. A. Banerjee
Vice-Chancellor



भारतीय प्रौद्योगिकी संस्थान मुंबई

माणीक लाल दास

को एतद्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है।

अभिषद की अनुमति पर संस्थान की मुद्रांकित यह उपाधि,
अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर
तथा जुलाई 2006 में अपने शोध-प्रबंध के सफल परामर्श पर
मुंबई, भारतीय गणराज्य में आज 11 अगस्त, 2006 को दी जाती है।

Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the

Doctorate of Philosophy

on

Manik Lal Das

who has fulfilled the requirements of the regulations for the regulations
and successfully defended his thesis entitled

"Design and Analysis of Architectural Structures"

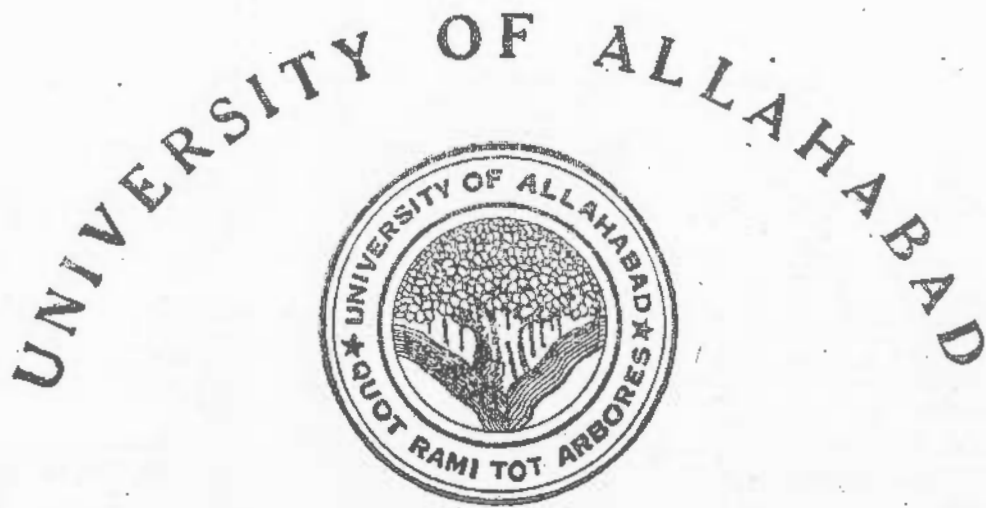
Given this day, under the seal of the Indian Institute of Technology Bombay in the Republic of India,
the 11th day of August 2006.

अध्यक्ष, अभिषद
Chairman, Senate

कुलसचिव
Registrar

अध्यक्ष, शासी मंडल
Chairman, Board of Governors





Doctor of Philosophy in Science

Enrolment No: 10AU/411

This is to certify that Manish Khare
has been admitted to the degree of Doctor of Philosophy
in Science in this University at the Convocation
of 2015

University of Allahabad:
25th. June, 2016
The 8th. Dec, 2016


Vice-Chancellor.



अभिषद की अनुशंसा पर
भारतीय प्रौद्योगिकी संस्थान पटना
के अभिशासक परिषद द्वारा

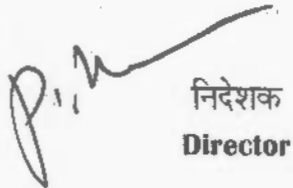
मनीष कुमार
की
डॉक्टर ऑफ फिलॉसफी की उपाधि
तेरह सितंबर बी हजार अठारह को पटना में प्रदान की गयी।

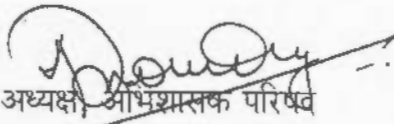
The Board of Governors
of the
Indian Institute of Technology Patna
upon the recommendation of the Senate hereby confers the degree of
Doctor of Philosophy
on
Manish Kumar

given at Patna on this Thirteenth day of September, Two Thousand Eighteen.

Thesis Title: Blind Parameter Estimation And Synchronization For Future Wireless Communication Systems

वि.सि.
कुलसचिव
Registrar


निदेशक
Director


अध्यक्ष, अभिशासक परिषद
Chairman, Board of Governors

विद्या परिषद की अनुमति पर

भारतीय प्रौद्योगिकी संस्थान कानपुर

के संचालक मण्डल द्वारा

मनीष कुमार गुप्ता

को

डॉक्टर ऑफ फिलॉसफी

की उपाधि

सम्स्त सम्मानों विशेषाधिकारों व दायित्वों के साथ

अष्टाईस सई दो हजार एक को

प्रदान की गयी।



THE BOARD OF GOVERNORS
OF THE

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

UPON THE RECOMMENDATION OF THE SENATE

HEREBY CONFERS ON

MANISH KUMAR GUPTA

THE DEGREE OF

DOCTOR OF PHILOSOPHY

WITH ALL HONOURS PRIVILEGES AND OBLIGATIONS

THEREUNTO PERTAINING

GIVEN AT KANPUR ON THIS TWENTY-EIGHTH DAY OF MAY

TWO THOUSAND ONE

CHAIRMAN
BOARD OF GOVERNORS
CHAIRMAN
SENATE
REGISTRAR
K. G. L.

No 690



INDIAN INSTITUTE OF TECHNOLOGY
BOMBAY

REF. : PG-1 PH. D./EE-01407302/2004

POWAI, MUMBAI 400076

DATE : 02.12.2004

PROVISIONAL CERTIFICATE

This is to certify that

Shri/Ms. Manjunath Joshi

*Research Scholar in Electrical Engineering Department
of this Institute, has qualified for the award of
Ph. D. degree. His/her defence viva-voce examination
was held on 29.11.2004*

The title of his/her thesis is

Motion-Free Super-Resolution Imaging.

*The degree will be conferred upon him/her at the
next convocation.*

Arun Kumar
Deputy Registrar
(Academic)



Indian Institute of Technology Madras

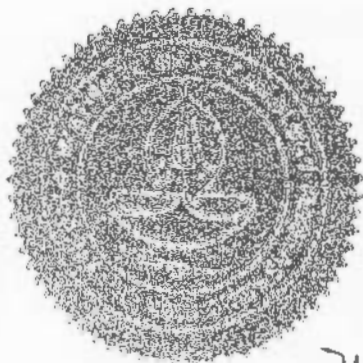
hereby confers the degree of
Doctor of Philosophy
of the Institute

on

MANOJ KUMAR RAUT

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

COMPUTING PRIME IMPLICATES OF FIRST ORDER FORMULAS



*Given this day the Thirtieth of July, 2004
under the seal of the Institute.*

Uma Titus
Registrar

Manoj Kumar Raut
Director

[Signature]
Chairman, Board of Governors

PC/ID NO

2005PHXF016P

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE
PILANI (RAJASTHAN) INDIA
PROVISIONAL CERTIFICATE

This is to certify that

MINAL KAMLA KAR BHISE

has fulfilled the requirements of graduation and has become eligible for the award of the degree

Ph.D.

during FIRST SEMESTER 2009-2010

Thesis Title:

**"Software Engineering Modeling Techniques for Semantic
Web based Systems"**

PILANI
Dated **23 SEP 2009**

Suraj Anand
REGISTRAR

We, the Chancellor, Vice Chancellor and Members
of the Court of the Gujarat University Certify that
the withinsigned

Amishal Modi



Doctor of Philosophy

(English, Arts)

has been conferred on the Twenty Ninth day
of the month of January in the year Two Thousand Twenty.
at Ahmedabad, on

Modi Amishal Surendra

who has been found duly qualified for the same.

In Testimony whereof are set the Seal
of the said University and
the Signature of the said Vice Chancellor.

008799



Handwritten signature of the Vice Chancellor.

Vice Chancellor

The University of New Mexico

has conferred upon

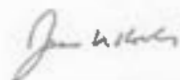
Mukesh Tiwari

the degree of

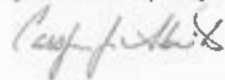
Doctor of Philosophy

Optical Science and Engineering

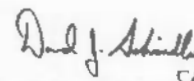
with all the rights and privileges appertaining to that degree,
in testimony whereof the Regents of the University upon recommendation
of the Faculty have granted this diploma bearing the seal of the University
this twentieth day of December, two thousand and eight.



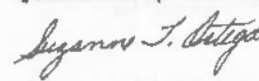
President of the Regents



Secretary of the Regents



President of the University



Provost of the University



भारतीय प्रौद्योगिकी संस्थान मुंबई

मंजुनाथ जोशी

को एतद्द्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि,
अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर
तथा नवम्बर 2004 में अपने शोध-प्रबंध के सफल पक्षपोषण के उपरान्त,
मुंबई, भारतीय गणराज्य में आज 16 सितम्बर, 2005 को दी गई है ।

Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

Manjunath Joshi

who has fulfilled the requirements for the degree as prescribed under the regulations
and successfully defended in November 2004, the thesis entitled :

"Motion-free Super-Resolution Imaging".

Given this day, under the seal of the Institute at Mumbai in the Republic of India,
the 16th day of September 2005.



अध्यक्ष, अभिषद
Chairman, Senate

कुलसचिव
Registrar

अध्यक्ष, शासी मंडल
Chairman, Board of Governors

INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR
KHARAGPUR-721302

PROVISIONAL CERTIFICATE

for the degree of

DOCTOR OF PHILOSOPHY

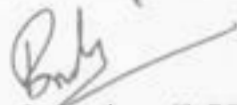
*Certified that Nabin Kumar Sahu of the Department of Mathematics
has successfully completed all the prescribed requirements for the degree of Doctor of Philosophy of the Institute.*

The date of the Ph.D. Viva-Voce examination is 21/01/2014 .

The title of the Ph.D. thesis is

Frames, Numerical Range and Variational Inclusion Problems in Semi-inner Product Spaces

This certificate is issued this day, the January 22, 2014 , with the approval of the authorities.



Superintendent (PGS and R)



Deputy Registrar (Academic) / Assistant Registrar (PGS and R)

Note: Validity of this certificate will expire after the degree is awarded in the next convocation.

भारतीय प्रौद्योगिकी संस्थान दिल्ली

विभाजन की अनुमति पर

विद्या वाचस्पति

को उपाधि

नलिन कुमार शर्मा

को प्रदान करता है।

आपने इस उपाधि के अर्जन हेतु विनियम विहित अनिवार्य कार्यवाही को जुलाई 2018 में सफलतापूर्वक पूर्ण किया है।

शोध प्रबंध शीर्षक : DISCRETE-TIME HIGHER ORDER SLIDING MODE: THE CONCEPT AND THE CONTROL

भारतीय गणराज्य में दिल्ली स्थित संस्थान की मुद्रा अंकित यह उपाधि आज दिनांक 3 नवम्बर 2018 को प्रदान की गई।

Indian Institute of Technology Delhi

Upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

NALINKUMAR SHARMA

who has successfully completed the requirements under the regulations for the award of this degree in July 2018.

Thesis title : DISCRETE-TIME HIGHER ORDER SLIDING MODE: THE CONCEPT AND THE CONTROL

Given this day, the 3rd of November 2018, under the seal of the Institute at Delhi in the Republic of India.

अध्यक्ष, बोर्ड ऑफ गवर्नर्स
Chairman, Board of Governors

अध्यक्ष, संसद एवं निदेशक
Chairman, Senate & Director

रजिस्ट्रार
Registrar

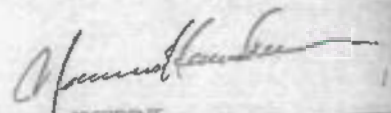




RICE UNIVERSITY
AN AMERICAN INSTITUTION
DEDICATED TO THE ADVANCEMENT
OF LIBERAL AND TECHNICAL LEARNING
AND THE PROGRESS OF MANKIND
IN LETTERS SCIENCE AND ART

FOUNDED AND ENDOWED
AD MAIOREM DEI GLORIAM
BY WILLIAM MARSH RICE
IN FREEDOM FOR RESEARCH
TO SOBER FEARLESS PURSUIT
OF TRUTH BEAUTY RIGHTEOUSNESS
AND TO ALL HIGH EMPRISE CONSECRATED
WOULD HAVE ALL MEN KNOW BY THESE PRESENTS
THAT IN THE PRESENCE OF THE TRUSTEES FACULTY
STUDENTS AND FRIENDS OF THIS UNIVERSITY
IN PUBLIC CONVOCATION ASSEMBLED
THE TRUSTEES HAVE CONFERRED UPON
NARESH DHANRAJ JOTWANI
A STUDENT OF THE UNIVERSITY
THE DEGREE OF DOCTOR OF PHILOSOPHY
WITH ALL THE RIGHTS DUTIES AND PRIVILEGES
APPERTAINING TO THAT DEGREE

HOUSTON, TEXAS
MAY THIRTEENTH
A. D. MCMXXVIII


PRESIDENT

University of North Texas



Kalyan Sasidhar Pathapati Subbu

Having successfully completed the Course of Study as prescribed by the
Faculty and Board of Regents and having complied with all other
requirements of the University, has been granted the Degree

Doctor of Philosophy
Computer Science and Engineering

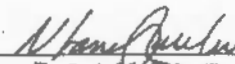
and is entitled to all rights and privileges appertaining to that Degree.

In testimony whereof, the undersigned have subscribed their names and affixed the Seal of the University.

Done this seventeenth day of December, Two thousand and eleven in Denton, Texas.


Chad A. Allen
Chairman, University of North Texas System
Board of Regents


Sue Johnson
Chancellor, University of North Texas System


N. Hanif Qureshi
President of the University

NATIONAL UNIVERSITY OF SINGAPORE



This is to certify that

Pankaj Kumar

**having fulfilled the requirements prescribed
by the University was conferred the degree of**

DOCTOR OF PHILOSOPHY

on

21 August 2004

A handwritten signature in black ink, appearing to be 'H. H. H.', written over a horizontal line.

Chairman of Council

A handwritten signature in black ink, appearing to be 'C. F. Shih', written over a horizontal line.

President

Mohanlal Sukhadia University, Udaipur



S. No. 2565

PROVISIONAL CERTIFICATE

Certified that the thesis on the subject

"QUERYING SEMANTIC WEB"

submitted by Mr. POKHAR MAL JAI

for the degree of Doctor of Philosophy in the faculty of ENGINEERING

..... has been approved by the Vice-Chancellor on 06.04.2013

UDAIPUR

Dated 08.04.2013.


REGISTRAR

Note : The degree of Ph.D. shall be conferred after the formal approval by the Board of Management



Jadaupur University

Certified that

Sri Prasenjit Mazumdar

was admitted to the Degree of Doctor of Philosophy in Engineering of this University on 21/05/2008 and that the degree was conferred on him / her at the Convocation held in December 2008 with all the Rights and Privileges thereto appertaining.

In Witness whereof the Signatures of the Chancellor and the Vice-Chancellor of Jadaupur University are hereunto affixed.

P. N. Ghosh

Vice-Chancellor

The 24th December, 2008



[Signature]
Chancellor

Prasenjit Mazumdar

Assistant Professor
Computer Vision and Pattern Recognition Unit
Indian Statistical Institute
203, B.T. Road
Kolkata-700 108

Serial No. 01434

Enrolment No. SAU/CS(Py)/2015/07



South Asian University



Certified that **Pritam Anand,**

of the **Department of Computer Science,** *having successfully defended his thesis on*

"Generalized Support Vector Regression Models" in

March 2021 has been admitted to the degree of

Doctor of Philosophy

of this University.

9 July 2021
New Delhi

B. Tripathy
Registrar



President

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद

विद्या परिषद् की अनुशंसा पर



प्रियंका सिंह

को

फरवरी २०१६ में शोध-प्रबंध के सफल पक्षपोषण के उपरान्त

डॉक्टर ऑफ फिलॉसफी

की संस्थान मुद्रा अंकित उपाधि समस्त सम्मानों विशेषाधिकारों व दायित्वों के साथ आज १७ अप्रैल २०१६ को इलाहाबाद (भारत) में प्रदान करता है

Motilal Nehru National Institute of Technology Allahabad

on the recommendation of the Senate

hereby confers on

PRIYANKA SINGH

ALLAHABAD (INDIA)

on successful defence of the thesis in February 2016

the Degree of

Doctor of Philosophy

सिद्धिमेवैरा कमजा

with all Honours, Privileges and Obligations thereunto pertaining on this day the 17th April 2016, under Seal of the Institute at Allahabad (INDIA).

Thesis: Ownership Assertion and Authentication of Images Via Water Marking



अध्यक्ष, प्रशासकीय परिषद्
Chairperson, Board of Governors

अध्यक्ष, विद्या परिषद्
Chairman, Senate



National Institute of Technology Durgapur

The Board of Governors of the Institute upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

Prosenjit Kundu

(registered with Department of Mathematics)

who has submitted a thesis entitled

"Transition to Synchronization in Complex Networks: Role of Frustration"

and successfully completed the requirement as prescribed under the regulations on 28-11-2019

राष्ट्रीय प्रौद्योगिकी संस्थान दुर्गापुर

अभिषद् की अनुशंसा पर संस्थान का अभिशासक परिषद्

(मैथमेटिक्स विभाग में पंजीकृत)

Prosenjit Kundu

को

डॉक्टर ऑफ फिलोसोफी

की उपाधि प्रदान करता है।

इन्होंने अपना शोध-प्रबंध

"Transition to Synchronization in Complex Networks: Role of Frustration"

28-11-2019 को निर्धारित अध्ययन अपेक्षाओं के अनुरूप प्रस्तुत कर शोध कार्य पूर्ण किया है।

Chairman, Senate

अध्यक्ष, अभिषद्



Chairman, Board of Governors

अध्यक्ष, अभिशासक परिषद्

Durgapur, India / दुर्गापुर, भारत

January 12, 2021 / 12 जनवरी, 2021

Sr. No. 2009/16

Reg.No. PCS200302



CHENNAI MATHEMATICAL INSTITUTE

(a University under Section 3 of the UGC Act, 1956)

hereby confers the degree of

Doctor of Philosophy

in

Computer Science

on **Puneet Bhateja**

who has successfully completed the requirements for the Degree
under the National Graduate Programme in the year **2009**

Place: Chennai
Date: 30 July 2009

Dean of Studies

Director



अनुक्रमांक/Roll No. 15310058



भारतीय प्रौद्योगिकी संस्थान गांधीनगर

अभिषद् की अनुशंसा पर

छाया रचित चंद्रवदन

को

डॉक्टर ऑफ फिलॉसफी

की उपाधि प्रदान करता है

आज तीस जुलाई दो हजार बाईस को संस्थान की यह
मुद्रा अंकित उपाधि प्रदान की गयी

Indian Institute of Technology Gandhinagar

On the recommendation of the Senate
hereby confers on

Chhaya Rachit Chandrabadan

The Degree of

Doctor of Philosophy

Given under the seal of the Institute
on this Thirtieth day of July Two Thousand Twenty Two

COLOUR COPY

अध्यक्ष, अभिषद्
Chairman, Senate

कुलसचिव
Registrar

अध्यक्ष, शासी मण्डल
Chairman, Board of Governors

S.No. IIT(BHU)-732

Roll No. 17071004



भारतीय
प्रौद्योगिकी
संस्थान
काशी हिन्दू विश्वविद्यालय



INDIAN
INSTITUTE OF
TECHNOLOGY
BANARAS HINDU UNIVERSITY

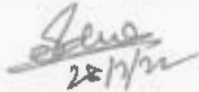
PROVISIONAL CERTIFICATE

This is to certify that Mr./Ms. Mr. Rahul Mishra
S/o/D/o Shri Radhe Shyam Mishra has completed
all requirements for the award of the degree of **Doctor of Philosophy** for the
year of 2022.

The Degree will be issued to him/her on the occasion of the Convocation
of the Institute and the date of award shall be 10.02.2022.

Title of the Thesis Extending the Capabilities of Smartphone Sensors for
Applications in Smart Transport

Dated: 27.07.2022


28/7/22
Dean(Academic Affairs)
अभियन्ता (शैक्षणिक-कार्य)
DEAN (Academic Affairs)
भारतीय प्रौद्योगिकी संस्थान
Indian Institute of Technology
(बनारस हिन्दू विश्वविद्यालय)
Banaras Hindu University
वाराणसी-Varanasi-221005

Rahul Mishra



होमी भाभा राष्ट्रीय संस्थान Homi Bhabha National Institute



होमी भाभा राष्ट्रीय संस्थान
एतद्वारा
डॉक्टर ऑफ फिलोसॉफी
की उपाधि
राहुल मुथु
(गणित विज्ञान संस्थान)
को

सैद्धांतिक संगणक विज्ञान
(गणित विज्ञान अध्ययन परिषद्)
में विधिवत् रूप से इसके योग्य पाने पर प्रदान
करता है। यह उपाधि उनके शोध-कार्य, जो निम्न
शोध-प्रबंध में परिणित हुआ, को मान्य पाने हेतु है।

Acyclic Edge Colouring: Bounds and Algorithms

प्रबंधन परिषद् की बैठक दिनांक Date of meeting of Council of Management: October 2, 2010

अध्यक्ष, विद्या परिषद् Chairman, Academic Council

Homi Bhabha National Institute
hereby confers the degree of

Doctor of Philosophy

on

Rahul Muthu

(Institute of Mathematical Sciences)
in

Theoretical Computer Science

(Board of Studies in Mathematical Sciences)

he having been found duly qualified
for the same. This is in recognition of his
research work leading to a thesis on

अध्यक्ष, प्रबंधन परिषद् Chairman, Council of Management

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
KHARAGPUR - 721302
PROVISIONAL CERTIFICATE
for the degree of
Doctor of Philosophy (Ph.D.)

Certified that RAJIB LOCHAN DAS of the Department of ELECTRONICS & ELECTRICAL COMMUNICATION ENGG.

has successfully completed all the prescribed requirements for the degree of Doctor of Philosophy of the Institute.

The date of the Ph.D. Viva-Voce examination is 25-02-2015.

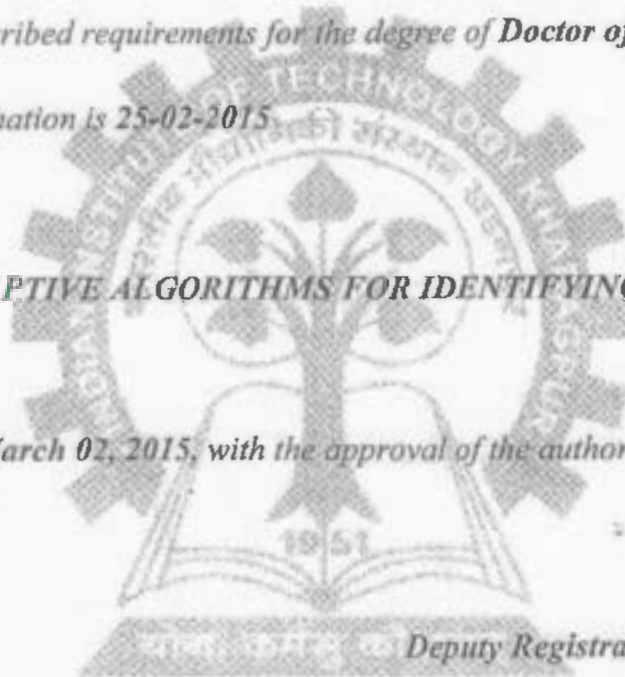
The title of the Ph.D. thesis is

NEW PROPORTIONATE TYPE ADAPTIVE ALGORITHMS FOR IDENTIFYING SPARSE SYSTEMS WITH VARIABLE SPARSITY

This certificate is issued this day, the March 02, 2015, with the approval of the authorities.



Superintendent (PGS & R)



Deputy Registrar (Academic) / Assistant Registrar (PGS & R)

Note : Validity of this certificate will expire after the degree is awarded in the next convocation.

भारतीय कृषि अनुसंधान संस्थान, नई दिल्ली
INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI



इस संस्थान की विद्या परिषद संतुष्ट है कि

रनेन्दु घोष

पुत्र/पुत्री श्री

सुधीर रंजन घोष

ने

डाक्टर आफ फिलॉसफी

की उपाधि के लिए अपेक्षित योग्यताएं पूरी कर ली हैं, अतः उन्हें एतद्वारा आज वर्ष
उन्नीस सौ छियासी के फरवरी मास की

छः तारीख को उक्त उपाधि प्रदान की जाती है।

RANENDU GHOSH

Son/Daughter of Shri SUDHIR RANJAN GHOSH

having completed the requirements for the degree of

DOCTOR OF PHILOSOPHY

to the satisfaction of the Academic Council of this Institute, is hereby
admitted to the said degree on this SIXTH day of FEBRUARY
in the year nineteen hundred and EIGHTY-SIX

डीन/Dean

निदेशक/Director



Université de Sherbrooke

Rutu Mahendra Parekh

a terminé avec succès le programme de

Doctorat en génie électrique

En foi de quoi, nous soussignés, à la recommandation
de la Faculté de génie
et par décision de l'Université, lui conférons le grade de

Philosophiae doctor, Ph. D.

Sherbrooke, Québec, Canada, le 24 août 2012



La rectrice,

Lucie Gauthier

La secrétaire générale,

Danuch

Le doyen de la Faculté,

Gérard Lachiver

THE REGENTS OF THE

University of California

ON THE RECOMMENDATION OF THE
GRADUATE COUNCIL OF THE ACADEMIC SENATE, LOS ANGELES DIVISION
HAVE CONFERRED UPON

SANJAY KUMAR SRIVASTAVA

WHO, BY CONDUCTING ORIGINAL RESEARCH,
HAS DEMONSTRATED THOROUGH KNOWLEDGE OF
PHYSICS

THE DEGREE OF DOCTOR OF PHILOSOPHY
WITH ALL THE RIGHTS AND PRIVILEGES THERETO PERTAINING
GIVEN AT LOS ANGELES

THIS TWENTY-FIFTH DAY OF MARCH IN THE YEAR
NINETEEN HUNDRED AND NINETY-FOUR.

Pete Wilson
GOVERNOR OF CALIFORNIA AND
PRESIDENT OF THE REGENTS

J. W. Peterson
PRESIDENT OF THE UNIVERSITY



Charles E. Young
CHANCELLOR AT LOS ANGELES

Claudia Mitchell-Kerwin
DEAN OF THE GRADUATE DIVISION
LOS ANGELES



It is hereby certified that

Sanjeev Gupta

was admitted to the Degree of

Doctor of Philosophy

by The Queen's University of Belfast

on the eighteenth day of December 1997

R. J. Shank.

Acting Vice-Chancellor

Sanjeev Gupta



Pandit Dwarka Prasad Mishra
Indian Institute of Information Technology, Design and Manufacturing, Jabalpur
(An Institute of National Importance established by an Act of Parliament)

अनुक्रमांक / Roll No. 1120162

क्रम संख्या / Sr. No. 2016/318

विद्या परिषद की अनुशंसा पर
पंडित द्वारका प्रसाद मिश्र
भारतीय सूचना प्रौद्योगिकी, अभिकल्पन एवं विनिर्माण संस्थान, जबलपुर
के प्रशासक मंडल द्वारा

सौरभ तिवारी
को
विद्या वाचस्पति
की उपाधि

निर्धारित अर्हताएँ सफलतापूर्वक पूर्ण कर लेने पर तथा जून 2016, में अपने शोध-प्रबंध के सफल पक्षपोषण के उपरान्त
दो सितम्बर, दो हजार सोलह को प्रदान की गयी

THE BOARD OF GOVERNORS
OF

PANDIT DWARKA PRASAD MISHRA
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING,
JABALPUR

UPON THE RECOMMENDATION OF THE SENATE

HEREBY CONFERS ON

SAURABH TIWARI

THE DEGREE OF

DOCTOR OF PHILOSOPHY

ON HAVING SUCCESSFULLY COMPLETED THE PRESCRIBED REQUIREMENTS AND
SUCCESSFULLY DEFENDED IN JUNE 2016, THE THESIS ENTITLED
(EVALUATING USABILITY ASPECTS OF USE CASES FOR SOFTWARE
SPECIFICATION PROBLEMS)

ON THIS SECOND DAY OF SEPTEMBER TWO THOUSAND AND SIXTEEN



कुलसचिव
Registrar

अध्यक्ष, विद्या परिषद
Chairperson
Senate

अध्यक्ष, प्रशासक मंडल
Chairperson
Board Of Governors

جامعہ ملیہ اسلامیہ



JAMIA MILLIA ISLAMIA

(A Central University by an Act of Parliament)

JAMIA NAGAR, NEW DELHI-110025

DOCTOR OF PHILOSOPHY (Ph.D.)

PROVISIONAL CERTIFICATE

Shailendra Kumar Singh

Name

Notification No. 468 *Date* 02.1

Topic "Conformity and Resistance in the Select Fictions of Premchand"

Department English

Faculty Humanities & Languages

The above candidate is declared eligible for the award of the Degree of Doctor of Philosophy.



THE UNIVERSITY OF CHICAGO

ON THE RECOMMENDATION OF THE FACULTY
AND BY VIRTUE OF THE AUTHORITY VESTED IN THEM
THE TRUSTEES OF THE UNIVERSITY HAVE CONFERRED ON

SHEFALI JHA

THE DEGREE OF

DOCTOR OF PHILOSOPHY

THE DEPARTMENT OF ANTHROPOLOGY

AND HAVE GRANTED THIS DIPLOMA AS EVIDENCE THEREOF
GIVEN IN THE CITY OF CHICAGO IN THE STATE OF ILLINOIS
IN THE UNITED STATES OF AMERICA IN THE YEAR
TWO THOUSAND AND SEVENTEEN
ON THE TWENTY-FIFTH DAY OF AUGUST

Joseph H. H. H.
Chairman of the Board of Trustees

Seamus
University Registrar



Robert J. Quinlan
President of the University

Seamus
Provost

Carl White
Interim Dean



भारतीय प्रौद्योगिकी संस्थान इन्दौर
शैक्षणिक विभाग
खण्डवा रोड, सिमरोल इन्दौर - ४५३ ५५२ मध्यप्रदेश, भारत

E-mail : academic-office@iiti.ac.in

IIT Indore

Indian Institute of Technology Indore

Academic Section

Khandwa Road, Simrol, Indore - 453 552, Madhya Pradesh, India

PROVISIONAL DEGREE CERTIFICATE

This is to certify that

Ms. Shruti Bhilare

Roll no. 12110103

has successfully completed all the prescribed requirements for award of the degree of

Doctor of Philosophy (PhD)

in

Computer Science and Engineering

of the Institute securing a CPI of 9.63 out of the maximum CPI of 10.00
on May 11, 2019.

The title of his thesis is:

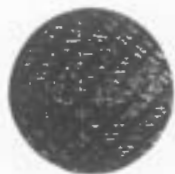
"Presentation Attack Detection and Matching Techniques for Hand-based Biometric Systems"

The degree shall, however, be conferred at the next convocation subject to the ratification by the Senate and Board of Governors of the Institute.

Date: May 29, 2019

Place: Indore

Administrative Officer
Academic Affairs



भारतीय प्रौद्योगिकी संस्थान रुड़की

अभिषद् की अनुशंसा पर
डॉक्टर ऑफ़ फिलॉसफी
की उपाधि

राव श्वेता नामदेव

को, जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2010 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता है।
शोध प्रबन्ध शीर्षक: कुलिनरी इमेजस एण्ड आईडेंटिटी इन द सलेक्टिड फिक्शन ऑफ़ श्री इन्डियन डायस्पोरिक वोमेन रायटर्स
भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 13 नवम्बर 2010, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

On the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

upon

RAO SHWETA NAMDEV

who has successfully completed in the year 2010 the requirements prescribed under the regulations for the award of this degree

Thesis Title: **CULINARY IMAGES AND IDENTITY IN THE SELECTED FICTION OF THREE INDIAN DIASPORIC WOMEN WRITERS**

Given this day, the 13th of November 2010, under the seal of the Institute at Roorkee in the Republic of India.

अध्यक्ष, अभिशासक परिषद्
Chairman, Board of Governors

निदेशक एवं अध्यक्ष, अभिषद्
Director & Chairman, Senate

कुलसचिव
Registrar





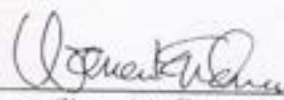
To all whom it may concern
Greeting:

Be it known that the Curators, having been advised by the Faculty that
Sourish Dasgupta
has completed the Course of Study required of candidates for the degree of
Doctor of Philosophy

and is qualified to receive the same, do confer said degree
with all the honors and privileges appertaining thereto.

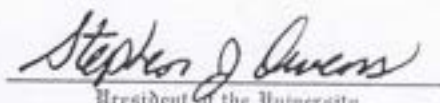
In testimony whereof the signatures of the proper officials and the
seal of the University are affixed.

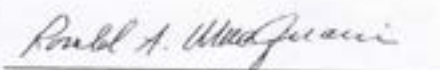
Done at the
University of Missouri-Kansas City
in the City of Kansas City, State of Missouri,
this twenty-ninth day of July, in the year two thousand and eleven.


Chair of the Board of Curators


Chancellor




President of the University


Dean

The Birla Institute of Technology & Science

Upon the Recommendation of the Senate hereby confers on

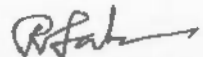
Sreeja Rajendran

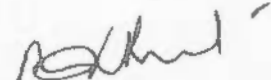
The Degree of

Doctor of Philosophy

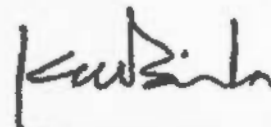
having been found duly qualified. The thesis presented for the Degree was entitled "INVESTIGATIONS ON TESTABILITY ANALYSIS AND ITS APPLICATIONS IN SECURE IC DESIGN".

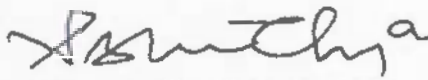
Given this fourth day of May, two thousand twentyone under the Seal of the Birla Institute of Technology & Science at Pilani in the State of Rajasthan, India.


DIRECTOR


REGISTRAR




CHANCELLOR


VICE-CHANCELLOR



अभिषद् की अनुशंसा पर
भारतीय प्रौद्योगिकी संस्थान मण्डी
के अभिशासक परिषद् द्वारा
डॉक्टर ऑफ़ फिलॉसफी
की उपाधि
श्रीमंता मण्डल
को

07 अक्टूबर 2017 को कामांद, मण्डी जमपद में प्रदान की गयी।

शोध प्रबन्ध: नॉवल अप्रोचेज फॉर सुपर रेजोल्यूशन ऑफ इंटेंसिटी/रेंज इमेज यूजिंग स्पर्स रिप्रेजेंटेशन



The Board of Governors of the
Indian Institute of Technology Mandi

upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

SRIMANTA MANDAL

Given at Kamand, Mandi District on this 07th of October 2017

Thesis: Novel Approaches For Super Resolution of Intensity/Range Image Using Sparse Representation

अध्यक्ष, अभिशासक परिषद्
Chairman, Board of Governors

निदेशक एवं अध्यक्ष, अभिषद्
Director & Chairman, Senate

कुलसचिव
Registrar

Visva-Bharati

This is to certify that

Sudip Bera

was admitted to the Doctor of Philosophy in the
Department of *Mathematics* under
Siksha-Bhavana in this University in
the year 2019 on presentation of a
dissertation titled

“On algebraic properties of power graphs”

Rochak Krabong
Vice-Chancellor



Santiniketan June 30, 2019



अनुक्रमांक /Entry No.2010CSZ0002

अधिकासी मंडल
भारतीय प्रौद्योगिकी संस्थान रोपड़
अभिषद् की अनुशंसा पर
सुपंथा पंडित
को शीर्षक

ON VARIATIONS OF GEOMETRIC COVERING-PACKING

में

विद्या वाचस्पति
की उपाधि

विहित अपेक्षाओं को पूरा कर लेने पर

अद्वितीय नवंबर दो हजार सत्रह को भारत गणराज्य के रूपनगर में प्रदान करता है।

The Board of Governors
of the

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

upon the recommendation of the Senate hereby confers on

Supantha Pandit

the Degree of

Doctor of Philosophy

for thesis entitled

ON VARIATIONS OF GEOMETRIC COVERING-PACKING

on having fulfilled the requirements.

Given at Rupnagar in the Republic of India

on the Twenty Eighth Day of November Two Thousand Seventeen.


कुलसचिव
Registrar


अध्यक्ष, अभिषद्
Chairman, Senate


अध्यक्ष, अधिकासी मंडल
Chairperson, Board of Governors



Jadabpur University

Certified that

Sri Tapas Kumar Maiti

was admitted to the Degree of Doctor of Philosophy in Engineering of this University on 04/12/2009 and that the degree was conferred on him/her at the Convocation held in December 2009 with all the Rights and Privileges thereto appertaining.

In Witness whereof the Signatures of the Chancellor and the Vice-Chancellor of Jadabpur University are hereunto affixed.

P. N. Saha

Vice-Chancellor

The 24th December, 2009



Ankora Das

Chancellor

UNIVERSITY OF CALCUTTA



This is to certify that

Nathagata Bandyopadhyay

obtained the degree of Doctor of Philosophy
(Science) in *Statistics*
in this University in the year 1993.

R. N. Bose
Vice-Chancellor.

Senate House,
The 25th February, 1994.



Indian Institute of Technology Madras

*hereby confers the degree of
Doctor of Philosophy
of the Institute*

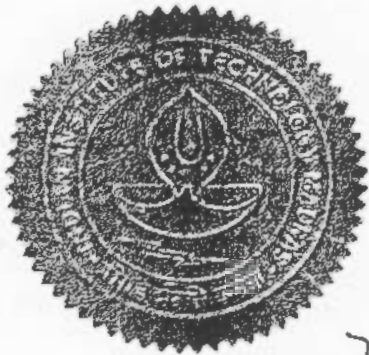
on

SUNITHA V

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

AUGMENTED CUBE: A NEW INTERCONNECTION NETWORK

*Given this day the Ninth of August, 2003
under the seal of the Institute.*



*Uma Titu
Registrar*

Director

Chairman, Board of Governors





भारतीय प्रौद्योगिकी संस्थान मुंबई

विनय श्रीनिवास पलपट्य

को एतद्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि
अवासि हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर
तथा अपने शोध-प्रबंध के सफल पक्षपोषण के उपरांत
मुंबई, भारतीय गणराज्य में आज 11 अगस्त, 2018 को दी गई है ।

Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

on

Vinay Shrinivas Palaparthi

who has fulfilled the requirements for the degree as prescribed under the
regulations and successfully defended the thesis entitled:

“Design and Development of Low-Cost and Reliable Soil Moisture Sensors and System for in-situ
Measurements.”

Given this day, under the seal of the Institute at Mumbai in the
Republic of India, the 11th day of August 2018.

अध्यक्ष, अभिषद
Chairman, Senate

कुलसचिव
Registrar

अध्यक्ष, शासी मंडल
Chairman, Board of Governors

THE UNIVERSITY OF CHICAGO

ON THE RECOMMENDATION OF THE FACULTY
AND BY VIRTUE OF THE AUTHORITY VESTED IN THEM
THE TRUSTEES OF THE UNIVERSITY HAVE CONFERRED ON

VISHVAJIT PANDYA

THE DEGREE OF

Doctor of Philosophy

THE DEPARTMENT OF ANTHROPOLOGY

AND HAVE GRANTED THIS DIPLOMA AS EVIDENCE THEREOF
GIVEN IN THE CITY OF CHICAGO IN THE STATE OF ILLINOIS
IN THE UNITED STATES OF AMERICA IN THE YEAR
ONE THOUSAND NINE HUNDRED AND EIGHTY-SEVEN
ON THE ELEVENTH DAY OF DECEMBER

TRUE COPY

Deputy Registrar
26/4/06
Deputy Registrar
DA-IICT, Gandhinagar

Chairman of the Board of Trustees
Chairman of the Board of Trustees

Registrar
Registrar



President of the University
President of the University

Provost
Provost

Dean
Dean

Serial No.: } 16Ph.D.36
क्रम संख्या: }

Registration No.: } 2K13-Ph.D.-E&CE-208
पंजीकरण संख्या: }

National Institute of Technology, Hamirpur (Himachal Pradesh)

Upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

in

Electronics & Communication Engineering

on

YASH AGRAWAL

THESIS TITLE: DESIGN, MODELING AND ANALYSIS OF HIGH PERFORMANCE VLSI INTERCONNECTS

Given at Hamirpur (H.P.) on this day under the seal of the Institute in the Republic of India.

राष्ट्रीय प्रौद्योगिकी संस्थान, हमीरपुर (हिमाचल प्रदेश)

अभिषद की अनुशंसा पर

विद्या वाचस्पति की उपाधि

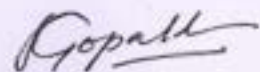
इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग एतद्वारा

यश अग्रवाल

को प्रदान करता है।

शोधप्रबन्ध शीर्षक: डिजाइन, मॉडलिंग एंड एनालिसिस ऑफ हाई परफॉरमेंस वीएलएसआई इंटरकनेक्ट्स

भारतीय गणतन्त्र के अन्तर्गत हमीरपुर (हि.प्र.) में इस दिनांक को संस्थान की मुद्रा अंकित यह उपाधि दी गई।



Chairman, Board of Governors
अध्यक्ष, अभिशासक परिषद



Director & Chairman, Senate
निदेशक एवं अध्यक्ष, अभिषद



Registrar
कुलसचिव



Serial No.: 16Ph.D.36
कम संख्या :

Registration No.: 2K13-Ph.D.-E&CE-208
पंजीकरण संख्या :

National Institute of Technology, Hamirpur (Himachal Pradesh)

Upon the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

in

Electronics & Communication Engineering

on

YASH AGRAWAL

THESIS TITLE: DESIGN, MODELING AND ANALYSIS OF HIGH PERFORMANCE VLSI INTERCONNECTS

Given at Hamirpur (H.P.) on this day under the seal of the Institute in the Republic of India.

राष्ट्रीय प्रौद्योगिकी संस्थान, हमीरपुर (हिमाचल प्रदेश)

अभिषद की अनुमति पर

विद्या वाचस्पति की उपाधि

इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग एतद्वारा

यश अग्रवाल

को प्रदान करता है।

शोधप्रबन्ध शीर्षक: डिजाइन, मॉडलिंग एंड एनालिसिस ऑफ हाई परफॉरमेंस वीएलएसआई इंटरकनेक्ट्स

राष्ट्रीय गणतन्त्र के अन्तर्गत हमीरपुर (हि.प्र.) में इस दिनांक को संस्थान की मुद्रा अंकित यह उपाधि दी गई।

Chairman, Board of Governors
अध्यक्ष, अभिरक्षासक परिषद

Director & Chairman, Senate
निदेशक एवं अध्यक्ष, अभिषद

Registrar
कुलसचिव



Virginia Polytechnic Institute and State University

*The Board of Visitors of the Virginia Polytechnic Institute
and State University has conferred upon*

Vash M. Vasavada

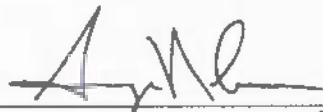
upon the recommendation of the Faculty, the degree of

Doctor of Philosophy

Major - Electrical Engineering

with all the rights, privileges and honors pertaining thereto.

*In testimony whereof, the undersigned, by authority
vested in them, have hereunto affixed their signatures
and the seal of the University at Blacksburg, Virginia
this thirtieth day of June, two thousand and twelve.*

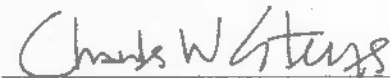


Rector

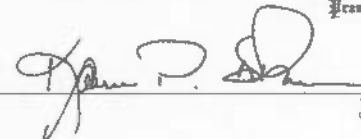


Dean





President



Dean