



**Dhirubhai Ambani**  
**Institute of Information and Communication Technology**  
DA-IICT Road, Gandhinagar, Gujarat, India 382007.  
Tel.: +91 79 6826 1700 | Fax: +91 79 6826 1710 | Web: www.daiict.ac.in

**ENGINEERS WITH  
SOCIAL RESPONSIBILITY**

NAAC Accredited  
Recipient of Centre of Excellence Award by the Government of Gujarat  
Recipient of '5 Star' in GSIRF Ranking by Government of Gujarat

**2.4.2 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B  
Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

<b>Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit.</b>	<b>Qualification (Ph.D./D.M/M.Ch./D.N.B Super speciality/D.Sc./D'Lit.)</b>	<b>Year of obtaining the qualification</b>	<b>Page No.</b>
Sanjay Srivastava	PhD	1993	3
Anish Mathuria	PhD	1998	4
Manjunath Joshi	PhD	2004	5
Vishvajit Pandya	PhD	1987	6
Sanjeev Gupta	PhD	1997	7
Ranendu Ghosh	PhD	1985	8
Manik Lal Das	PhD	2006	9
Manishkumar Gupta	PhD	2000	10
Biswajit Mishra	PhD	2007	11
Alka Parikh	PhD	1993	12
Amit Bhatt	PhD	1995	13
Hemant A Patil	PhD	2006	14
Sunitha Murugan	PhD	2003	15
Madhumita Mazumdar	PhD	2006	16
Prasenjit Majumder	PhD	2008	17
Pokhar Mal Jat	PhD	2013	18
Anil Kumar Roy	PhD	1993	19
Yash Vasavada	PhD	2012	20
Mukesh Tiwari	PhD	2008	21
Minal Bhise	PhD	2009	22
Bhaskar Chaudhury	PhD	2009	23
Arnab Kumar Ray	PhD	2004	24
Pankaj Kumar	PhD	2004	25
Gautam Dutta	PhD	1999	26
Rahul Muthu	PhD	2008	27
Jaideep Mulherkar	PhD	2009	28
Aditya Tatu	PhD	2010	29
Bharani Kollipara	PhD	2011	30
Manoj Kumar Raut	PhD	2004	31
Shweta Garg	PhD	2010	32
Rutu Parekh	PhD	2012	33
Rajib Lochan Das	PhD	2015	34
Kalyan Sashidhar	PhD	2011	35
Gagan Garg	PhD	2010	36
Puneet Bhateja	PhD	2009	37

Sourish Dasgupta	PhD	2011	38
Nabin Kumar Sahu	PhD	2014	39
Yash Agrawal	PhD	2016	40
Manish Khare	PhD	2015	41
Saurabh Tiwari	PhD	2016	42
Deepak Ghodgaonkar	PhD	1987	43
Naresh Jotwani	PhD	1977	44
Amit Mankodi	PhD	2022	45
Anjan Ghosh	PhD	1984	46
Bakul Gohel	PhD	2015	47
Srimanta Mandal	PhD	2017	48
Priyanka Singh	PhD	2016	49
Supantha Pandit	PhD	2017	50
Vinay Palaparthi	PhD	2018	51
Jay Prakash Lalchandani	PhD	2010	52
Tapas Kumar Maiti	PhD	2009	53
Abhishek Jindal	PhD	2017	54
Ahlad Kumar	PhD	2016	55
Shruti Bhilare	PhD	2019	56
Avijit Dutta	PhD	2020	57
Madhu Kant Sharma	PhD	2015	58
Avik Hati	PhD	2018	59
Anuj Tawari	PhD	2019	60
Pritam Anand	PhD	2020	61
Shefali Jha	PhD	2017	62
Shailendra Kumar Singh	PhD	2019	63
Nalin Kumar Sharma	PhD	2018	64
Manish Kumar	PhD	2018	65
Tathagata Bandyopadhyay	PhD	1994	66
Arpit Rana	PhD	2020	67
Sreeja Ravindrran	PhD	2021	68
Ayan Palchaudhuri	PhD	2021	69
Rachit Chhaya	PhD	2022	70
Amishal Modi	PhD	2020	71
Gaurav Kumar Singh	PhD	2018	72
Manish Narwaria	PhD	1994	73
Rahul Dubey	PhD	2020	74
Rajendra Mitharwal	PhD	2021	75
Santanu Koley	PhD	2021	76
Suman Kumar Mitra	PhD	2022	77
Dipankar Nagchoudhuri	PhD	1973	78

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

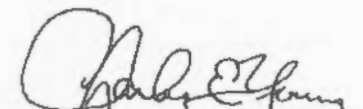
THE DEGREE OF DOCTOR OF PHILOSOPHY  
WITH ALL THE RIGHTS AND PRIVILEGES THERETO PERTAINING  
GIVEN AT LOS ANGELES


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

  
GOVERNOR OF CALIFORNIA AND  
PRESIDENT OF THE REGENTS

  
PRESIDENT OF THE UNIVERSITY



  
CHANCELLOR AT LOS ANGELES

  
DEAN OF THE GRADUATE DIVISION  
LOS ANGELES



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



# 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



# 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

*[Signature]*  
26/4/06  
Deputy Registrar  
DA-IIGT, Gandhinagar

*[Signature]*  
Chairman of the Board of Trustees

*[Signature]*  
Registrar



*[Signature]*  
President of the University

*[Signature]*  
Provost

*[Signature]*  
Dean



*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*

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





# 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



विद्या परिषद की अनुशंसा पर  
भारतीय प्रौद्योगिकी संस्थान कानपुर  
के संचालक मण्डल द्वारा

**मनीष कुमार गुप्ता**

को

**डॉक्टर ऑफ फिलॉसफी**

की उपाधि

समस्त सम्मानों विशेषाधिकारों व दायित्वों के साथ  
अट्हाईस मई 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**

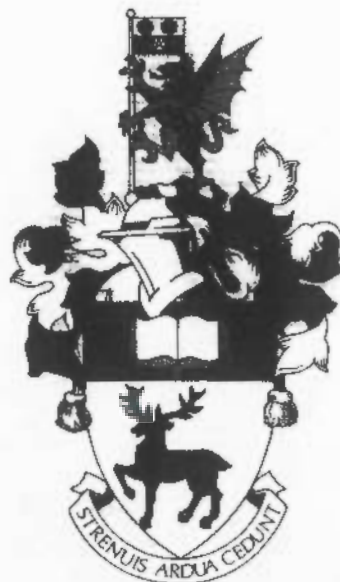
WITH ALL HONOURS PRIVILEGES AND OBLIGATIONS  
THEREUNTO PERTAINING

GIVEN AT KANPUR ON THIS TWENTY-EIGHTH DAY OF MAY  
TWO THOUSAND ONE

अध्यक्ष, शासक मण्डल  
CHAIRMAN  
BOARD OF GOVERNORS

रजिस्ट्रार  
REGISTRAR

अध्यक्ष, शिक्षा परिषद  
CHAIRMAN  
SENATE



# 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**

# 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

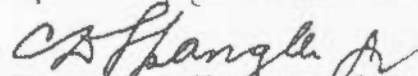
**Amit R. Bhatt**

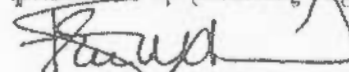
the degree of

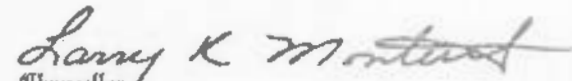
**Doctor of Philosophy**

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



# Indian Institute of Technology Kharagpur



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

## **Doctor of Philosophy**

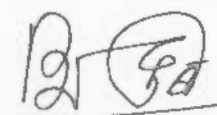
*on*


**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



# Indian Institute of Technology Madras

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

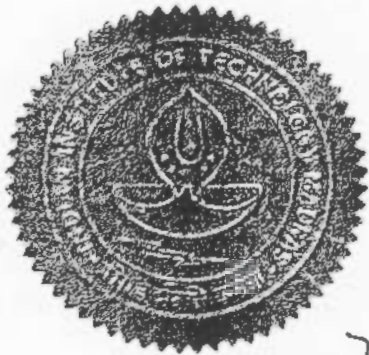
*on*

**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*

*[Signature]  
Director*

*[Signature]  
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 27<sup>th</sup> March, 2006

*A. A. Banerjee*  
Vice-Chancellor



*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 Jadavpur 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

# 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



# The University of New Mexico

has conferred upon

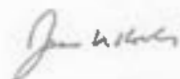
**Mukesh Tiwari**

the degree of

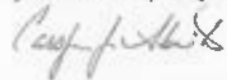
**Doctor of Philosophy**

Optical Science and Engineering

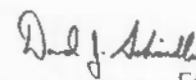
with all the rights and privileges appertaining to that degree,  
in testimony whereof the Regents of the University upon recommendation  
of the Faculty have granted this diploma bearing the seal of the University  
this twentieth day of December, two thousand and eight.



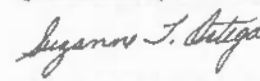
President of the Regents



Secretary of the Regents



President of the University



Provost of the University

# 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



# Virginia Polytechnic Institute and State University

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

**Vash M. Vasavada**

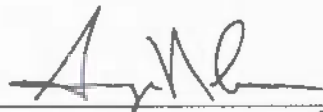
*upon the recommendation of the Faculty, the degree of*

**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.*

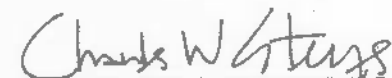


Rector

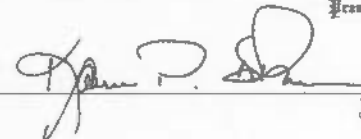


Dean





President



Vice President

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  
*[Signature]*



# 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

  
Vice-Chancellor

9 NOV 2009 Date of Issue



20050127

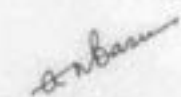


*Certified that*

**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 Jadavpur University are hereunto affixed.*

  
Vice-Chancellor  
The 24th December, 2005



  
Chancellor

# 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 in a cursive style.

*Chairman of Council*

A handwritten signature in black ink, appearing to be 'C. F. Shih', written in a cursive style.

*President*

**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.



# 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

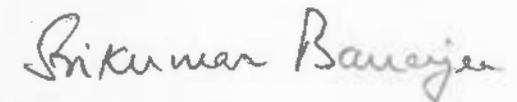
**Rahul Muthu**

(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

---

---

**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



*Gregory C. Gibelung*  
Dean

*May 29, 2009*  
Date

---

---

Office of Graduate Studies

---

---



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

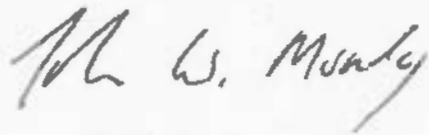
*Curve Evolution in Subspaces and Exploring the  
Metameric Class of Histogram of Gradient Orientation  
based Features using Nonlinear Projection Methods*

*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

*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

*Shayon*  
Vice-Chancellor



# Indian Institute of Technology Madras

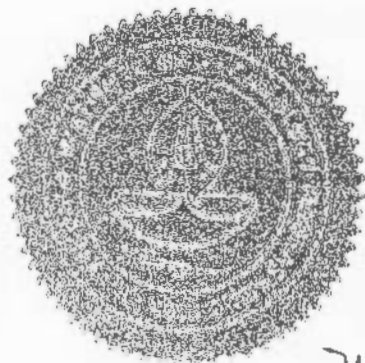
*hereby confers the degree of*  
**Doctor of Philosophy**  
*of the Institute*

*on*

**MANOJ KUMAR RAUT**

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

**COMPUTING PRIME IMPLICATES OF FIRST ORDER FORMULAS**

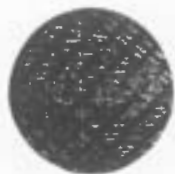


*Given this day the Thirtieth of July, 2004  
under the seal of the Institute.*

*K. S. T. S.*  
Registrar

*M. K. R.*  
Director

*[Signature]*  
Chairman, Board of Governors



# 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 थ्री 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 13<sup>th</sup> 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





# 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*



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.*


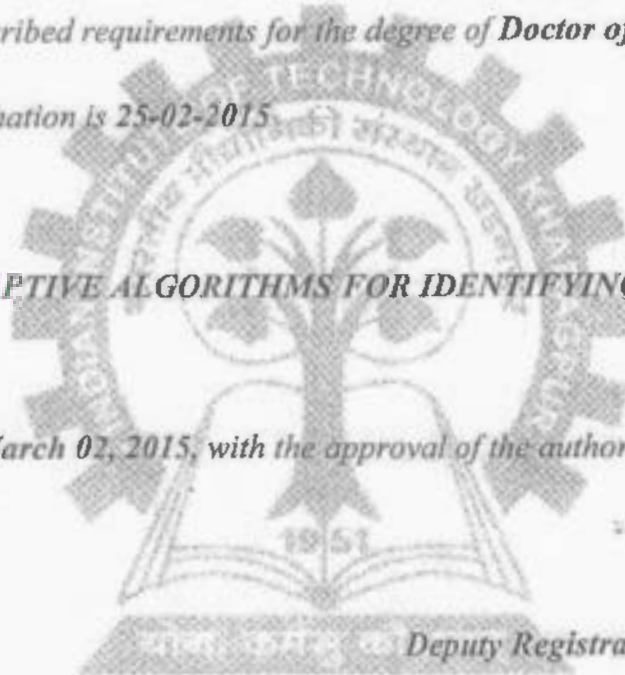
*The title of the Ph.D. thesis is*

**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.*

# 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**

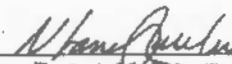
and is entitled to all rights and privileges appertaining to that Degree.

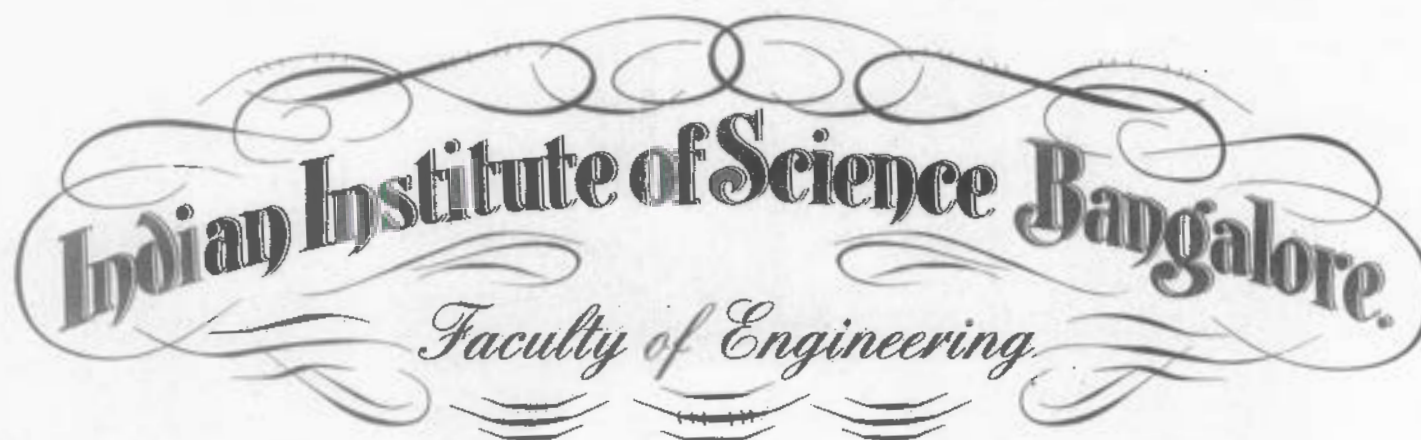
In testimony whereof, the undersigned have subscribed their names and affixed the Seal of the University.

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



*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

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







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.

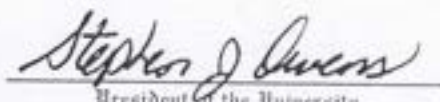
In testimony whereof the signatures of the proper officials and the  
seal of the University are affixed.

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



INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR  
KHARAGPUR-721302

**PROVISIONAL CERTIFICATE**

*for the degree of*

**DOCTOR OF PHILOSOPHY**

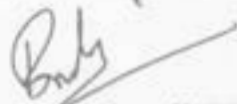
*Certified that Nabin Kumar Sahu of the Department of Mathematics  
has successfully completed all the prescribed requirements for the degree of Doctor of Philosophy of the Institute.*

*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.*

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

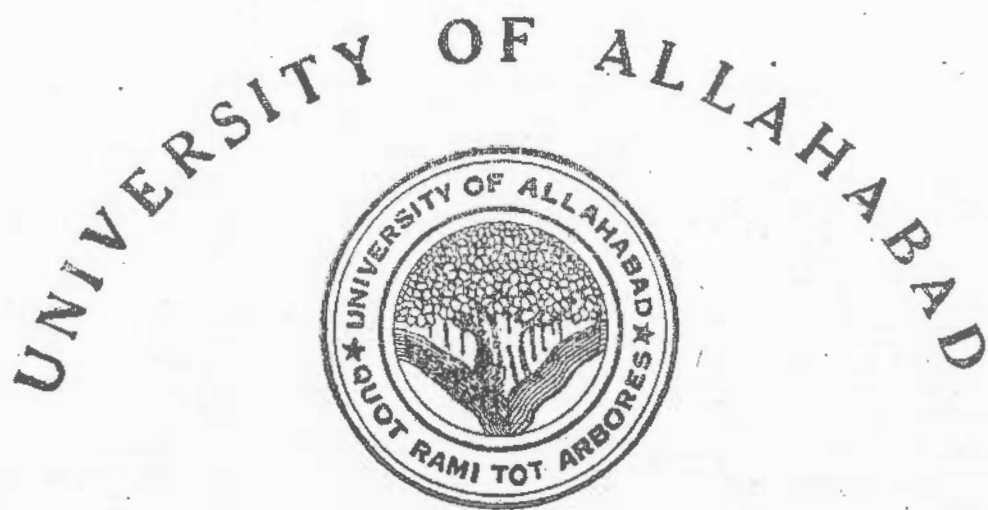
भारतीय गणतन्त्र के अन्तर्गत हमीरपुर (हि.प्र.) में इस दिनांक को संस्थान की मुद्रा अंकित यह उपाधि दी गई।

Chairman, Board of Governors  
अध्यक्ष, अभिशासक परिषद

Director & Chairman, Senate  
निदेशक एवं अध्यक्ष, अभिषद

Registrar  
कुलसचिव






## 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.





**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

# 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






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



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



# 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

# 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 'Sung-mo Kang'.

Sung-mo Kang, Ph. D. PRESIDENT



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 07<sup>th</sup> 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



# 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 17<sup>th</sup> 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



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

अक्षाईस 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



# 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



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

## Doctor of Philosophy

on

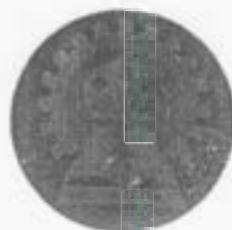
Lalchandani Jayprakash Thanwardas

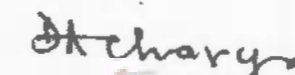
in recognition of the research work on

***Slicing UML Models***

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

  
Registrar



  
Director



20090385



# 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



**Ankur Das**

*Chancellor*



# 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**

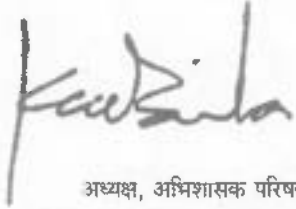
*on*

**ABHISHEK JINDAL**

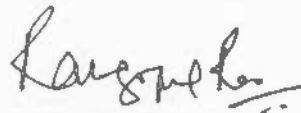
*who has successfully completed the requirements under the regulations for the award of this degree in June 2017.*

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

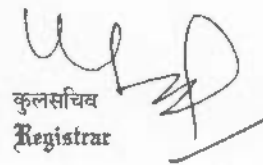
*Given this day, the 4<sup>th</sup> of November 2017, under the seal of the Institute at Delhi in the Republic of India.*



अध्यक्ष, अभिशासक परिषद  
Chairman, Board of Governors



अध्यक्ष, अभिषद एवं निदेशक  
Chairman, Senate & Director



कुलसचिव  
Registrar





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 Anwar Jalaludin  
Vice Chancellor

Yusoff Musa  
Registrar





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

# 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)



# 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. S.*  
Registrar

*B. N.*  
Director

*R. S. S.*  
Chairman, Board of Governors





# 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 Haldar

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



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

सैध्दांतिक 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-400 014

Result Notified in: March, 2019

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



# 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

  
Chairman of the Board of Trustees

  
University Registrar



  
President of the University

  
Provost

  
Interim Dean

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.*





# भारतीय प्रौद्योगिकी संस्थान दिल्ली

विशेषज्ञ की अनुमति पर

विद्या वाचस्पति

को उपस्थित

नलिन कुमार शर्मा

को प्रदान करता है।

आपने इस उपाधि के अर्जन हेतु विनियम विहित अनिवार्य कोर्सेज 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

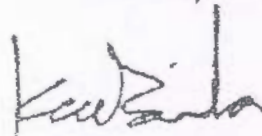
on

NALINKUMAR SHARMA

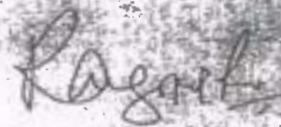
who has successfully completed the requirements under the regulations for the award of this degree in July 2018.

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

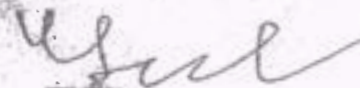
Given this day, the 3<sup>rd</sup> of November 2018, under the seal of the Institute at Delhi in the Republic of India.



अध्यक्ष, बोर्ड ऑफ गवर्नर्स  
Chairman, Board of Governors



अध्यक्ष, संसदे एवं निदेशक  
Chairman, Senate & Director



रजिस्ट्रार  
Registrar





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

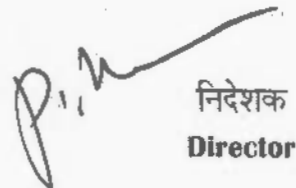
मनीष कुमार  
की  
डॉक्टर ऑफ फिलॉसफी की उपाधि  
तेरह सितंबर बी हजार अठारह को पटना में प्रदान की गयी।

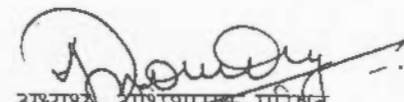
The Board of Governors  
of the  
Indian Institute of Technology Patna  
upon the recommendation of the Senate hereby confers the degree of  
Doctor of Philosophy  
on  
Manish Kumar

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

## 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.





# *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*

*Deby*

*Registrar*

# The Birla Institute of Technology & Science

Upon the Recommendation of the Senate hereby confers on

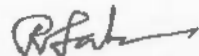
**Sreeja Rajendran**

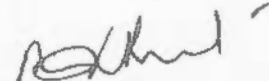
The Degree of

## 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".

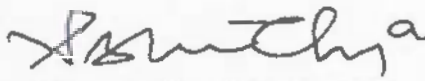
Given this fourth day of May, two thousand twentyone under the Seal of the Birla Institute of Technology & Science at Pilani in the State of Rajasthan, India.

  
DIRECTOR

  
REGISTRAR



  
CHANCELLOR

  
VICE-CHANCELLOR



Roll No.14EC92R01



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

**Doctor of Philosophy**

on

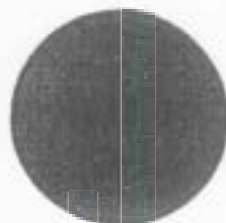
**Ayan Palchaudhuri**

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

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



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.

667800



*[Signature]*

Vice Chancellor





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

*Kamal D'Souza*  
DIRECTOR  
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

*Prabir*  
CHAIRPERSON, BOARD OF GOVERNORS  
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD



# Nanyang Technological University

Republic of Singapore



It is hereby certified that

***Manish Narwaria***

having satisfied the requirements of the University  
was conferred the following degree on *06 November 2012*:

***Doctor of Philosophy***



*Berht Andersen*  
\_\_\_\_\_  
President

*Chen Kwong Lok*  
\_\_\_\_\_  
Registrar



# भारतीय प्रौद्योगिकी संस्थान रुड़की

(पूर्व रुड़की विश्वविद्यालय)

अभिषद् की अनुशंसा पर

डॉक्टर ऑफ़ फिलॉसफी

की उपाधि

राहुल दुबे

को, जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2006 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता है।

शोध प्रबन्ध शीर्षक: चिप आर्किटेक्चर फॉर मोटर कंट्रोल

भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 11 नवम्बर 2006, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

## INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(Formerly University of Roorkee)

Upon the recommendation of the Senate hereby confers the degree of

**Doctor of Philosophy**

on

**RAHUL DUBEY**

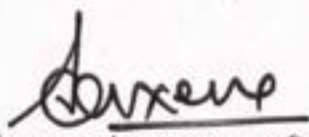
who has successfully completed in the year 2006 the requirements prescribed under the regulations for the award of this degree

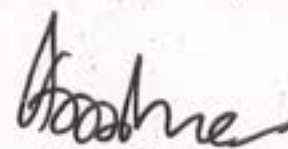
Thesis Title: **CHIP ARCHITECTURE FOR MOTOR CONTROL**

Given this day, the 11th of November 2006, under the seal of the Institute at Roorkee in the Republic of India.

5/11/06

अध्यक्ष, अभिशासक परिषद्  
Chairman, Board of Governors

  
निदेशक एवं अध्यक्ष, अभिषद्  
Director & Chairman, Senate

  
कुलसचिव  
Registrar





*Télécom Bretagne*  
*Institut Mines-Télécom*

**DOCTORAT**  
**GRADE DE DOCTEUR – DOCTORATE'S DEGREE**

Vu le code de l'éducation, notamment ses articles L. 612-7, L. 613-1, D. 613-3 et D. 613-6 ;

Vu le code de la recherche, notamment son article L. 412-1 ;

Vu le décret n° 2012-279 du 28 février 2012 relatif à l'Institut Mines-Télécom ;

Vu l'arrêté du 21 août 2000 fixant la liste des établissements d'enseignement supérieur autorisés à délivrer le doctorat conjointement avec une université ou un institut national polytechnique ;

Vu l'arrêté du 7 août 2006 relatif à la formation doctorale ;

Vu les pièces justificatives produites par M. Rajendra MITHARWAL, né le 03 août 1984 à Sikar (INDE), en vue de son inscription au doctorat ;

Vu le procès-verbal du jury attestant que l'intéressé a soutenu, le 16 janvier 2015, une thèse portant sur le sujet suivant : « **Innovative Computational Paradigms for Invisible Radio Frequency Devices** », préparée au sein de l'école doctorale Santé, Information, Communication, Mathématiques (SICMA), devant un jury présidé par Giuseppe VECCHI, Professeur, et composé de Hélène ROUSSEL, Professeur, Massimiliano CASALETTI, Maître de conférences, Pascal PAGANI, Maître de conférences, Michel NEY, Professeur, Francesco Paolo ANDRIULLI, Professeur ;

Vu la délibération dudit jury prononçant l'admission de l'intéressé avec la mention « **Très honorable** » ;

Le **DIPLÔME NATIONAL DE DOCTEUR en Sciences de l'Ingénieur** est délivré à **M. Rajendra MITHARWAL** au titre de l'année universitaire **2013/2014** et confère le grade de docteur, pour en jouir avec les droits et prérogatives qui y sont attachés.

Fait à Brest, le 04 janvier 2016

Le titulaire

Le Directeur de Télécom Bretagne

Le Recteur d'Académie,  
Chancelier des universités

N° ENSTBR 6107439

2015telb0349



Paul FRIEDEL



Michel QUERE



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

**Doctor of Philosophy**

on

**Santanu Koley**

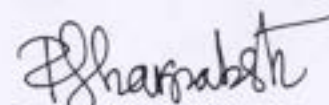
in recognition of the research work on

***Integral equation and allied methods for wave interaction with porous and flexible structures***

Given under the seal of the Institute at Kharagpur on the Thirtieth day of July, Two Thousand and Sixteen

  
Registrar



  
Director





*declares*

*Suman Kumar Mitra*

*a*

**Doctor of Philosophy (Ph.D.)**

*on the merit*

*of*

*academic record and a thesis accepted*

*in the year 2001*

*M K Menon*  
President

*K B Sinha*  
Director

*Dr P S S N V*  
Dean of Studies

*Dated Calcutta the Fifteenth day of January 2002*

*No*

# Michigan State University

Upon the Nomination of the Faculty has conferred upon

**Dipankar Nagchoudhuri**

the Degree of

**Doctor of Philosophy**

Electrical Engineering

Given under the Seal of the University at East Lansing in the  
State of Michigan on this fifteenth day of March  
in the year Nineteen Hundred and Seventy-four.

*Jack A. ...*  
Executive Vice President and  
Secretary, Board of Trustees



*C. R. ...*  
President of the University