VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM KARNATAKA, INDIA



This is to certify that

Siddesh G K

has been conferred the Degree of

Poctor of Philosophy

Faculty of Electrical and Electronics Engineering Sciences

for the thesis entitled

Neuro-Fuzzy Model Based Routing Protocols in Mobile
Ad-Hoc Networks

in recognition of the fulfillment of requirements for the said degree

PH 000195

Given under the seal of the University

USN: 4PS06PEM02



Ollon_

BELGAUM



"Jnana Sangama", Belagavi- 590 018, Karnataka state.

Dr. K. E. Prakash, B.E. M.E., Ph.D Registrar

Phone: (0831) 2405468 Fax : (0831) 2405467

Ref.: VTU/Aca/2015-2016/A7/[\$

1 9 JAN 2016

Sub: Registration of Ph.D./M.Sc.(Engg.) by Research from June 2015.

Ref: Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the direction of the Vice-Chancellor, you are hereby permitted to register for pursuing research with the following details:

1. Name

: Maheshkumar Patil

2. Programme

Ph.D.

3. Full time /Part time

Part Time

4. Research Centre E&C

5. College/Institute

: JSSATE, Bengaluru

6. Supervisor Dr. Siddesh G K

7. Research Topic : "Design of Protocol to Improve Quality of Service for Real

Time Multimedia Applications "

8. Approved Course work

> SI.No. Group

Course work

1. 14PHDRM

Research Methodology

2. 14PHDEC001

VLSI Design and Embedded Systems

3.

14PHDEC004

Wireless and Mobile Networks

4.

14PHDCS003

Advances in Computer Networks

This permission for registration is subject to fulfilling the following conditions

- Submission of a letter confirming acceptance of provisional admission to Ph.D./M.Sc.(Engg.) and an undertaking to abide by rules and regulations of the University stipulated from time to the Office of the undersigned, on or before 25th Jan 2016, forwarded by the Supervisor and the Head of the Institution in which the Research Centre mentioned above is located.
- Send a DD to VTU for requisite registration fee of 7. 4000/- drawn in favour of the Finance 2. Officer, VTU, Belagavi

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registrar

Phe candidate

Copy to, 1. The Research Centre /VTURRC

2. The Supervisor/Co-Supervisor

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI KARNATAKA, INDIA



This is to certify that

MAHESH KUMAR N

has been conferred the Degree of

Boctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

SECURE FRAMEWORK FOR COGNITIVE RADIO NETWORK

in recognition of the fulfillment of requirements for the said degree

PH 000921 Given under the seal of the University

USN: 1DS15PEJ03

BELAGAVI

DATE :

APRIL 03, 2021

VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ ಕರ್ನಾಟಕ, ಭಾರತ



ಶ್ರೀ/ಶ್ರೀಮತಿ

RAVINDRAS

ಇವರು

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES ವಿಭಾಗದಲ್ಲಿ

QOS BASED NETWORK SELECTION AND DEVICE - TO -DEVICE COMMUNICATION FOR LTE ADVANCED SYSTEMS

ಎಂಬ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

PH 000993

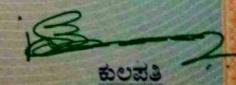
ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

USN: 1DS15PEJ04

0

ಬೆಳಗಾವಿ ದಿನಾಂಕ :

APRIL 03, 2021



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI KARNATAKA, INDIA



This is to certify that

RAVINDRA S

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

GOS BASED NETWORK SELECTION AND DEVICE - TO -DEVICE COMMUNICATION FOR LTE ADVANCED SYSTEMS

in recognition of the fulfillment of requirements for the said degree

PH 000993

Given under the seal of the University

USN: 1DS15PEJ04

0

BELAGAVI

DATE : APRIL 03, 2021

2

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI KARNATAKA, INDIA



This is to certify that

SHASHI RAJ K

has been conferred the Degree of

Poctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

QOS AWARE ROUTING BASED ON BANDWIDTH ESTIMATION, DELAY AND ENERGY CONSUMPTION FOR MANETS

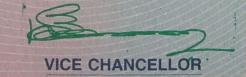
in recognition of the fulfillment of requirements for the said degree

PH 000929 Given under the seal of the University

USN: 1DS15PEJ02

BELAGAVI DATE :

APRIL 03, 2021



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM KARNATAKA, INDIA



This is to certify that

PRAKASH JADHAV

has been conferred the Degree of

Poctor of Philosophy

in

Faculty of Electrical & Electronics Engineering Sciences

for the thesis entitled

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

in recognition of the fulfillment of requirements for the said degree

PH 001966

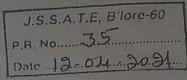
Given under the seal of the University

USN: 1JS11PEN01

BELGAUM

DATE : March 18, 2019

VICE CHANCELLOR





ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

Visvesvaraya Technological University "Jnana Sangama", Belagavi - 590 018, Karnataka State.

Prof. A. S. Deshpande, B.E., M.Tech., Ph.D.

Phone: (0831) 2498100 Fax : (0831) 2405467

Preamble:

Sub: Change of Research Supervisor and Center -reg... Ref: Hon'ble Vice-Chancellor approval dated 17-03-2021.

Shruti . N(1DS17PEA35) pursuing research under the guidance of Dr.Anitha.V, has requested for Change of Research Supervisor and Center . Based on the recommendations of the Doctoral Committee, No Objection Certificate from the Guides/Centers, and in accordance with the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.), the Change of Research Supervisor and Center as requested by the candidate is approved.

Order No: VTU/BGM/Ph.D/Aca/2020-21/10409.

Date: 2 4 MAR 2021

Pursuant to the approval of the Hon'ble Vice-Chancellor and as per the preamble above, $Shruti \cdot N$ (1DS17PEA35) has been permitted to Change of Research Supervisor and Center of her/his Research work.

NEW
Dr. SIDDESH.G.K., JSS ACADEMY OF TECHNICIAL EDUCATION, Bengaluru (1JS17PEA12) uments of the University, with immediate effect.

By Order,

Registrar

To

Shruti . N(1DS17PEA35) Research Scholar

Copy to

- 1. The Registrar (Evaluation), VTU, Belagavi for information.
- 2. The Principal, Dayananda Sagar College of Engineering, Bengeluru.
- 3. The Principal, JSS ACADEMY OF TECHNICIAL EDUCATION, Bengaluru
- 4. Research Guide Dr. Anitha. V.
- 5. Research Guide- Dr. SIDDESH.G.K.,
- 6. Office copy.

My to HOD, ERE



"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy., B.E. M.E., Ph.D. Registrar

Phone: (0831) 2405468 Fax : (0831) 2405467

Ref.: VTU/Aca/2016-2017/A7/EL 8411/135

Date:

OFFICE ORDER

Registration of Ph.D./M.Sc.(Engg.) by Research from June 2016 Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Shruthi N

2. Programme Ph.D.

3. Full time /Part time

Part Time

4. Research Centre E&CE

5. College/Institute DSCE, Bengaluru

6. Supervisor

8.

Dr. Anitha V

7. Co-Supervisor

Research Topic

"IoT Based Cloud Security Authentication Protocol"

9. Approved Course work

Sl.No.

Group

Course work

1. 14PHDRM

Research Methodology

2.

14PHDCS003

Advances in Computer Networks

3.

14PHDEC004

Wireless and Mobile Networks

4.

14PHDIT003

Sensors and Applications

This permission for registration is subject to fulfilling the following conditions

- Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and 1. Head of Research Centre on or before 10th Feb 2017
- 2. An undertaking to abide by the rules and regulations of the University.
- 3. DD. of₹'6000/- drawn in favour of the Finance Officer VTU, Belagavi towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD 14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

To,

The candidate

Copy to, 1. The Research Centre /VTU-RRC

2. The Supervisor/Co-Supervisor



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

Visvesvaraya Technological University

"Inana Sangama", Belagavi - 590 018, Karnataka State.

Prof. A. S. Deshpande BE M Tech Ph.D. REGISTRAR

Phone: (0831) 2498100 Fax : (0831) 2405467

Preamble:

Sub: Change of Research Supervisor and Center-reg... Ref: Hon'ble Vice-Chancellor approval dated 17-03-2021.

J.S.S.A.T.E. B'lore-60 P.R. No. 772 Date 27-03.2021

Chaithanya S.(IDS17PEA17) pursuing research under the guidance of Dr. V. Anitha, has requested for Change of Research Supervisor and Center . Based on the recommendations of the Doctoral Committee, No Objection Certificate from the Guides/Centers, and in accordance with the Regulations Governing the Degree of Doctor of Philosophy (Ph.D.), the Change of Research Supervisor and Center as requested by the candidate is approved.

Order No: VTU/BGM/Ph.D/Aca/2020-21/10U05.

Date: 2 4 MAR 2021

Pursuant to the approval of the Hon'ble Vice-Chancellor and as per the preamble above, Chaithanya S. (IDS17PEA17) has been permitted to Change of Research Supervisor and Center of her/his Research work.

OLD	NEW
Dr. V. Anitha, Dayananda Sagar College of	Dr. Siddesh G K, JSS Academy of Technical
Engineering, Bengeluru	Education, Bengaluru (1JS17PEA11)

ated in all the related documents of the University, with immediate effect.

By Order,

Registrar

Chaithanya S.(IDS17PEA17) Research Scholar

Copy to

- 1. The Registrar (Evaluation), VTU, Belagavi for information.
- 2. The Principal, Dayananda Sagar College of Engineering, Bengeluru. 3. The Principal, JSS Academy of Technical Education, Bengaluru
- 4. Research Guide Dr. V. Anitha.
- 5. Research Guide- Dr. Siddesh G K.
- 6. Office copy.



"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. H. N. Jagannatha Reddy., B.E. M.E., Ph.D. Registrar

Phone: (0831) 2405468 Fax : (0831) 2405467

Ref.: VTU/Aca/2016-2017/A7/EL 1/72/3

Date: 2 2 MAY 2017

OFFICE ORDER

Sub: Registration of Ph.D./M.Sc.(Engg.) by Research from June 2016. Ref: Your application for the Ph.D./M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name

: Chaithanya S

2. Programme

Ph.D.

3. Full time /Part time

Part Time

4. Research Centre

E&CE

5. College/Institute

DSCE, Bengaluru

6. Supervisor

Dr. V Anitha

7. Co-Supervisor

8. Research Topic

"Implementation of Secure Authentication Protocol for

Internet of Things "

9. Approved Course work

Sl.No. Group

Course work

1. 14PHDRM

Research Methodology

2. 14PHDEE006

Linear Algebra

3.

14PHDEC003

Communication Systems

4.

14PHDEC004

Wireless and Mobile Networks

This permission for registration is subject to fulfilling the following conditions

- Letter of acceptance for the Provisional admission, duly forwarded by the Guide/ Co-guide and Head of Research Centre on or before 29th May 2017.
- 2. An undertaking to abide by the rules and regulations of the University.
- DD of ₹6000/- drawn in favour of the Finance Officer VTU, Belagavi towards requisite registration fee.

Note: This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registr

To,

The candidate

Copy to, 1. The Research Centre /VTURRC

2. The Supervisor/Co-Supervisor



"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E. M.E., Ph.D Registrar

Phone: (0831) 2405468 Fax: (0831) 2405467

Ref.: VTU/Aca/2015-2016/A7 EL

X607

OFFICE ORDER

Registration of Ph.D./M.Sc.(Engg.) by Research from June 2015 Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : Basavanagouda Ganganagoudar

2. Programme Ph.D.

3. Full time /Part time

Part Time

4. Research Centre E & CE

5. College/Institute JSSATE, Bengaluru

Supervisor 6.

Dr. Siddesh G K

7. Co-Supervisor

8. Research Topic "ASIC Design & Implementation of Low Power VHT-

MIMO-OFDM Architecture for Wireless LAN"

9. Approved Course work

Sl.No.

Group

Course work

1.

14PHDRM

Research Methodology

2.

14PHDEC001

VLSI Design & Embedded Systems

3.

14PHDEC004

Wireless & Mobile Networks

4.

14PHDEC005

Digital System Design

This permission for registration is subject to fulfilling the following conditions

- 1. Letter of acceptance for the Provisional admission, duely forwarded by the Guide/ Co-guide and Head of Research Centre on or before 19th Dec 2015.
- 2. An undertaking to abide by the rules and regulations of the University.
- DD of ₹ '4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite 3. registration fee.

This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 1914)

Registrar

To,

The candidate

- Copy to, 1. The Research Centre /VTURRC
 - The Supervisor/Co-Supervisor

From,

Date: 13/12/2015

Mr. Basavanagouda Ganganagoudar

#6, Kaladarshini Nilaya, BCC Layout,

Near Shani Mahatma temple,

Raghuvanahalli, Kanakpura road,

Bengaluru -560062

To,

The Registrar,

Visvesvaraya Technological University,

Jnana Sangama, Belgavi- 590018

Through,

Dr. Siddesh G K,

Supervisor, Assoc. Professor,

JSSATE, Bengaluru- 560060.

Sub: "Registration for PhD in Electronics and Communication Engineering"

Ref: VTU/Aca/2015-2016/A7 EL 8007

Respected Sir,

With reference to the above subject I would like to register for the PhD program under the supervision of Dr. Siddesh G K, Assoc. Professor, JSSATE, Bengaluru at the research centre at JSS Academy of Technological Education, Bengaluru.

Further I abide the rules and regulations of the university stipulated from time to time to the office of university. Hence I kindly request you to give the permission for the continuing my study. I will be enclosing the DD of amount Rs. 4000/- along with this letter. (490722)

Thanking You,

Accepted to guide Mr. Basavaragouda Ganganagoudar for PhD under VT2L

siddesh 13-12-15

Yours' Sincerely

Baasavanagouda Ganganagoudar

PRINCIPAL

JSS Academy of Technical Education,