Dr. Mrinal Kanti Bhowmik
Assistant Professor,
Computer Science and Engineering
Department Tripura University (A
Central University) Suryamaninagar –
799022, Tripura, India

Email:

mrinalkantibbowmik@tripurauniv.in

mkb ese@yahoo.co.in

mkb.cae@amail.com Fex No: 0381-237-4802

Phone No. 9436129933



Tripura University (d. Central University) Suryama-dungan, Tripura, India

Date: 25, 09.2020

Approval Sheet

The thesis/ dissertation/ report entitled "Automatic Classification of Different types of Sedimentary rocks & Detection of Oil Reservoir" by Mr. Subhrajit Naha & Mr. Akash Datta is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

Dr. Mrinal Kanti Bhowmik Supervisor,
Head In-Charge and Assistant Professor,

Computer Science and Engineering Department

Tripura University (A Central University)

Suryamaninagar – 799022, Tripura, India

Fat

External Examiner:

Date:

Place:

IV

Assistant Professor, Computer Science and Engineering Department Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India Email: - mrinalkantibhowmik@ tripurauniv.in mkb_cse@ yahoo.co.in mkb.cse@ gmail.com Fax No: 0381-237-4802 Phone No: 9436129933



Tripura University (A Central University) Suryamaninagar, Tripura, India

Date: 25, 09.20

Approval Sheet

The thesis/ dissertation/ report entitled "A Comprehensive Study on Segmentation of Carotid Artery for Prediction of Cardiovascular Disease" by Smt. Tania Bhattacharya is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

_ Morinal	uanti'	Bhownik	•

(Dr. Mrinal Kanti Bhowmik)
Supervisor,
Head In-Charge and Assistant Professor,
Computer Science and Engineering Department
Tripura University (A Central University)
Suryamaninagar – 799022, Tripura,
India

fait

External Examiner

Date:

Place:

Assistant Professor, Computer Science and Engineering Department Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India Email: mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in mkb.cse@gmail.com Fax No: +91-381-237-4802 Phone No: +91-9436129933



Tripura University (A Central University) Suryamaninagar, Tripura, India

Date: 25,09,20

Approval Sheet

The thesis/ dissertation/ report entitled "A Study on Infrared Imaging Based Classification of Bruises in Fruits using Convolutional Neural Networks (CNNs)" by Mr. Sudipta De is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

Morinal Wanti Berowniu

(Dr. Mrinal Kanti Bhowmik)
Supervisor, Head In-Charge and Assistant Professor,
Department of Computer Science and Engineering
Tripura University (A Central University)
Suryamaninagar – 799022, Tripura (W),India

Part

External Examiner

Date: Place:

Assistant Professor, Computer Science and Engineering Department Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India Email: mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in mkb.cse@gmail.com Fax No: +91-381-237-4802 Phone No: +91-9436129933



Tripura University (A Central University) Suryamaninagar, Tripura, India

Date: 25.09.20

Approval Sheet

The thesis/ dissertation/ report entitled "A Comprehensive Study on Diabetic Foot Ulcer Detection methods using different Imaging Modalities" by Smt. Kuheli Majumder is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

_	-17152'nal	kanh	Jhen VV
(Dr. M	Irinal Kanti Bhowmik	k)	
Superv	visor, Head In-Charge	e and Assistant P	rofessor,
Depart	tment of Computer So	cience and Engin	eering
Tripur	ra University (A Cent	ral University)	
	maninagar – 799022.		lia 🕌

Fat

External Examiner

Date:

Place:

Assistant Professor,

Computer Science and Engineering Department Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India Email: mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in mkb.cse@gmail.com Fax No: +91-381-237-4802 Phone No: +91-9436129933



Tripura University (A Central University) Suryamaninagar, Tripura, India

Date: 25,09,2020

Approval Sheet

The thesis/ dissertation/ report entitled "A Study on Different Microscopic Cell Imaging Modalities and Analysis of Pap-smear Images for Cervical Abnormality Detection" by Smt. Suyeta Das is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

(Dr. Mrinal Kanti Bhowmik)

Supervisor, Head In-Charge and Assistant Professor,

Department of Computer Science and Engineering

Tripura University (A Central University)

Suryamaninagar – 799022, Tripura (W), India

Pat

External Examiner

Date:

Place:

Assistant Professor, Computer Science and Engineering Department Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India Email:

mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in

mkb.cse@gmail.com Fax No:0381-237-4802 Phone No: 9436129933



Tripura University (A Central University)
Suryamaninagar, Tripura, India

Date: 25,09,20.

Approval Sheet

The thesis/ dissertation/ report entitled "Deep Learning for Automatic Weapon detection: A Survey" by Smt. Puja Bardhan is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

Dr. Mrinal Kanti Bhowmik Supervisor, Head In-Charge and Assistant Professor,	Bhown'L. 25.09.2020.
Computer Science and Engineering Department	nt
Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India	
External Examiner:	
Date: Place:	

Assistant Professor,
Computer Science and Engineering Department
Tripura University (A Central University)
Suryamaninagar – 799022, Tripura, India

Email: mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in mkb.cse@gmail.com Fax No: +91-381-237-4802 Phone No: +91-9436129933



Tripura University (A Central University) Suryamaninagar, Tripura, India

Date: 25,09.20

Approval Sheet

The thesis/ dissertation/ report entitled "Asymmetric Analysis for Quality Inspection of Bruises in Fruits using Infrared Imaging" by Smt. Rudrani De is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

_Mrinal	kanti'	Bho.	ئىسىمى	U
(Dr. Mrinal Kanti Bhowmik Supervisor, Head In-Charge Department of Computer So Tripura University (A Centr Suryamaninagar – 799022,	e and Assistan cience and En ral University	gineering)	,	
External Examiner Date: Place:				

Assistant professor Computer Science & Engineering Department. Tripura University (A Central University).Suryamaninagar, 799022, Tripura, India. Email:mrinalkantibhowmik@tripurauniv.in mkb_cse@yahoo.co.in mkb.cse@gmail.com Fax No: 0381-237-4802 Phone No: 9436129933



Tripura University
(A Central University)
Suryamaninagar, Tripura, Agartala

Approval Sheet

The thesis/ dissertation/ report entitled "Automatic Detection of a Deceptive Face Using Thermal Imaging" by Smt. Sanhita Dasgupta is approved for accomplishment of degree of Master of Technology in Computer Science and Engineering.

Moind vanti Bhowniu.

Dr. Mrinal Kanti Bhowmik.

Supervisor,

Head In-Charge and Assistant Professor.

Computer Science & Engineering Department.

Tripura University (A Central University).

Suryamaninagar, 799022, Tripura, India

Part

External Examiner

Date:

25.09.20

Place:

TU

Approval Sheet

The report entitled "Energy efficient heart rate monitoring system using IoT platform" by Medha Roy Sarkar is approved for M.Tech 4th semester examination, 2020 (subject code: CSE 1201C PR) in Computer Science and Engineering.

Examiner(s):

Pat

Signature of Supervisor (Dr. Abhishek Majumder)
Assistant Professor

Department of Computer Science and Engineering Tripura University (A Central University)

Suryamaninagar – 799022, Tripura, India

Signature of Head-of-Department

(Dr. Mrinal Kanti Bhowmik) Co-ordinator of the Department

Department of Computer Science and Engineering

Tripura University (A Central University)

Suryamaninagar – 799022, Tripura, India

01.09.2020

Approval Sheet

The thesis entitled "Shilling Attack Detection in Collaborative Filtering Recommender Systems by Ward_p method" by Keya Chowdhury is approved for M.Tech 4th semester examination, 2020 (subject code: CSE 1201C PR) in Computer Science and Engineering.

Examiner(s):

Pat

Signature of Supervisor (Dr. Abhishek Majumder)

Assistant Professor

Department of Computer Science and Engineering

Tripura University (A Central University) Suryamaninagar – 799022, Tripura, India

Signature of Head-of-Department

(Dr. Mrinal Kanti Bhowmik)

H.O.D of the Department

Je. u. Rhow

Department of Computer Science and Engineering

Tripura University (A Central University)

Suryamaninagar – 799022, Tripura, India

01.09.20

Tripura University

(A Central University) Suryamaninagar-799022

Provisional Certificate

This is to Certify that Shawli Bardhan has qualified for the Degree of Doctor of Philosophy (Ph.D.) in Computer Science & Engineering under the Faculty of Science in accordance with UGC Regulations-2009 as on 19.11.2019.

The degree will be conferred on her at the next Annual Convocation of the University.

Title of the Thesis: "Analysis of IR Images for Detection of Inflammatory Knee Joint Diseases".

Place: Suryamaninagar

Date: 20/11/2019

Satyala Paldar (Prof. S. Poddar)

Controller of Examinations(I/C)
Tripura University



त्रिपुरा विश्वविद्यालय

Tripura University (केंद्रीय विश्वविद्यालय) (A Central University) सूर्यमणिनगर-799022 Suryamaninagar-799022

Sl. No. PC/Ph.D./0446/2020

Date: 14.09.2020

Provisional Certificate

This is to Certify that Usha Rani Gogoi vide registration No.F/TU/COE/Ph.D/10/CSE/06/16 has qualified for the Degree of Doctor of Philosophy (Ph.D.) in Computer Science & Engineering under the Faculty of Science on 10.09.2020 after successful completion of Course work in accordance with UGC Regulations-2009.

The degree will be conferred on her at the next Convocation of the University.

Title of the Thesis: Analysis of Infrared Breast Thermograms for Abnormality Detection.

Controller of Examinations (I/C)

(Prof. CHINMOY ROY)
Controller of Examinations (NG)
Tripura University.

त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिप्रा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



फोन Phone: (0381) 237 4801 237 9002

237 9003

237 9004 237.9024

फेक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail

: tuoffice@tripurauniv in

website

: www.tripurauniv.in

Ref. No.: F/TU/COE/Ph.D/10/CSE/03/15

Date: 06/11/2020

TO WHOM IT MAY CONCERN

This is to certify that Ms. Kakali Das, Ph.D research scholar, Department of Computer Science & Engineering, Tripura University (A Central University) with Registration No. F/TU/COE/Ph.D/10/CSE/03/15, Date of Registration: 18.11.2015, has submitted her Ph.D Thesis in Computer Science & Engineering Department on 21st September, 2020 under the supervision of Dr. Mrinal Kanti Bhowmik, Assistant Professor, Department of Computer Science & Engineering, Tripura University (A Central University) and Co-supervision of Prof. Barin Kumar De (Retired), Department of Physics, Tripura University (A Central University).

(Professor S. Banik)

Faculty of Science

Tripura University (A Central University)

विज्ञान संव व Facility of Science िप्रा विष्वतिसालय Tripina University

त्रिपुरा विश्वविद्यालय TRIPURA UNIVERSITY

(केन्द्रीय विश्वविद्यालय) (A CENTRAL UNIVERSITY)

सूर्यमणिनगर, अगरतला, त्रिपुरा, भारत Suryamaninagar, Agartala, Tripura, INDIA पिन Pin - 799022



फीन Phone: (0381) 237 4801 237 9002

> 237 9003 237 9004

237 9024

फेक्स Fax : (0381) 237 4802

237 4803 237 5355 237 4804

e-mail

: tuoffice@tripurauniv.in

website

: www.tripurauniv.in

Ref. No.: F/TU/COE/Ph.D/10/CSE/09/16

Date: 06/11/2020

TO WHOM IT MAY CONCERN

This is to certify that Sri. Anu Singha, Ph.D research scholar, Department of Computer Science & Engineering, Tripura University (A Central University) with Registration No. Ph.D/10/CSE/09/16, Date of Registration: 30.11.2016, has submitted his Ph.D Thesis in Computer Science & Engineering Department on 30th September, 2020 under the supervision of Dr. Mrinal Kanti Bhowmik, Assistant Professor, Department of Computer Science & Engineering, Tripura University (A Central University).

(Professor S. Banik)

Dean

Faculty of Science

Tripura University (A Central University)

संकायाध्या/Dean विज्ञान संकाय Faculty of Science न्याग विश्वविद्यालय Trigiura University