



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 600 119.

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DEPARTMENT OF INFORMATION TECHNOLOGY FACULTY MEMBERS INTERACTION OUTSIDE THE WORLD

ACADEMIC YEAR 2018-2019

S.NO	NAME OF THE FACULTY	PROGRAM	NATURE OF INTERACTION	YEAR
1	Dr.R.Subhashini	Big Data Analytics	Guest talk and Session Chair	2018
2	Dr.R.Subhashini	National Conference	Session Co-Chair	2018
3	Dr.S.Revathy	Object oriented programming with Java	Guest Talk	2018
4	Ms.E.Brumancia	Information Sciences(Elsiever)	Journal Reviewer	2018

The screenshot shows a website header with navigation links: Visit us, Governance, News, Events (highlighted), Staff directory, The Centre for Student and Community Engagement (CenSCE), Academic Development and Quality, and Universities for Nottingham. Below the header, the page title is "Computing and Informatics Research Seminar Series" with the subtitle "Big Data Analytics: Trends, Research Challenges and Opportunities". A "Seminars" section states: "As part of the School of Science and Technology's Computing and Informatics Research Seminar Series, Dr.R.Subhashini Sathyabama Institute of Science and Technology presents: Big Data Analytics: Trends, Research Challenges and Opportunities." A box on the right provides event details: "From: Wednesday 25 September 2019, 1 pm To: Wednesday 25 September 2019, 2 pm Location: ERD 161, Erasmus Darwin, Nottingham Trent University, Clifton Campus, Clifton Lane, Nottingham, NG11 9NS".

Faculty Name : Dr. R.Subhashini

Event :Computing and Informatics Research Seminar -Session Chair

Date and Year : 14th November 2018



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Faculty Name

: Dr. R.Subhashini

Event :Global Conference on Computing and Media Technology -Session Chair

Date and Year : 14th November 2018



Faculty Name : Dr. S.Revathy

Event :Object Oriented Programming with Java -Guest Talk

Date and Year : 8th october 2018



4/8/2018

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Reviewer

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Completed Reviewer Assignments for E. Brumacia

Page: 1 of 1 (6 total assignments)

#	Action	My Reviewer Number Δ/V	Manuscript Number Δ/V	Article Type Δ/V	Article Title Δ/V
	Action Links	1	INS-D-19-4730	Full length article	Research on Infrared and Visible Image Fusion Based on Terns Representation
	Action Links	5	INS-D-19-4180	Full length article	Outlier detection based on weighted neighbourhood information
	Action Links	2	INS-D-19-1137	Full length article	A New Construction of $S(L, n)$ - Essential Secret Color Image Shadows
	Action Links	1	INS-D-19-2968R1	Full length article	Multi-Label Classification with Weighted Classifier Selection and
	Action Links	1	INS-D-19-2968	Full length article	Multi-Label Classification with Weighted Classifier Selection and

Faculty Name : Ms.E. Brumacia

Event : Information Sciences -Journal Reviewer

Year : 2018



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DEPARTMENT OF INFORMATION TECHNOLOGY
FACULTY MEMBERS INTERACTION OUTSIDE THE WORLD
ACADEMIC YEAR 2019-2020

S.NO	NAME OF THE FACULTY	PROGRAM	NATURE OF INTERACTION	YEAR
1	Dr.R.Subhashini	Big Data Analytics:Trends, Research Challenges and Opportunities	Research Seminar Series	2019
2	Dr.R.Subhashini	Impact of Machine Learning across various Domains	Guest Talk	2019
3	Dr.V.Maria Anu	R Programming for Data Analytics	Guest Talk	2019
4	Dr.V.Maria Anu	Virtual Reality and Augmented Reality	Guest Lecture	2019
5	Dr.S.Revathy	DBT Sponsored short term training course on Big Data Analytics	Guest Lecture	2019
6	Ms.E.Brumancia	Cluster Computing(Springer)	Journal Reviewer	2019
7	Dr.V.Maria Anu	Journal of superconducting	Journal Reviewer	2019
8	Dr.V.Maria Anu	Future generation computer system	Journal Reviewer	2019
9	Dr.V.Maria Anu	International Conference	Session Chair	2020
10	Dr.V.Maria Anu	Finite Automata	Guest Lecture	2020



11	Dr.S.Revathy	Role of Artificial Intelligence in Electronics	Guest Talk	2020
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Faculty Name : Dr. R.Subhashini

Event : Faculty Exchange program

Date and Year : 27th august 2019



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NOTTINGHAM
TRENT UNIVERSITY

Friday, 09 August 2019

Professor Subhashini Radha Krishnan
Professor & Head
Department of Information Technology
Sathyabama Institute of Science and Technology
Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 600119

Dear Professor Subhashini,

I am very pleased to invite you to visit Nottingham Trent University (NTU) from 25 September 2019 to 5 October 2019 to meet with our academics and for a discussion on the existing partnership between Nottingham Trent University and Sathyabama Institute of Science and Technology.

Your passport details are as follows:

Surname - Radha Krishnan
Given name - Subhashini
Date of Birth - 24/05/1978
Passport Number - J5337940
Place of Issue - Chennai
Date of Expiry - 05/05/2025

Yours sincerely,


Dr Stephen Williams
Director, NTU Global

Nottingham Trent University
Nottingham Trent University, Nottingham, Nottingham NG1 4BU
Tel: +44 (0)115 75 7541 Fax: +44 (0)115 75 7542



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Faculty Exchange Programme

Faculty Name : Dr. R.Subhashini
Event :Big Data Analytics - Lecture

Date and Year : 25th September 2019

Faculty Name : Dr. R.Subhashini

Event :Impact of Machine Learning across various domains-Guest Talk

Date and Year : 16th December 2019

Faculty Name : Dr. V.Maria Anu

Event : Two days workshop on R programming For Data Analytics-Guest Lecture

Date and Year : Feb 25th – Feb 26th 2019

Faculty Name : Dr. V.Maria Anu

Event : FDP on Recent Trends in Internet of Things and its research- Guest Lecture Date and

Year : Feb 25th – Feb 26th 2019

Faculty Name : Dr. S.Revathy

Event :DBT sponsored Guest Talk -Big Data Analytics in Bio informatics

Date and Year 15.11.2019

Faculty Name : Ms.E. Brumacia

Event : Cluster Computing -Journal Reviewer

Year : 2019

Faculty Name : Dr. V.Maria Anu

Event : Future Generation Computer Systems -Journal Reviewer

Year : 2019

Faculty Name : Dr. V.Maria Anu

Event : The Journal of Supercomputing -Journal Reviewer

Year : 2019

Faculty Name : Dr. V.Maria Anu

Event : KSII transactions on internet and information systems

Date and Year : 2020

Event :Role of Artificial Intelligence in Electronics -Guest Talk

Date and Year 01-06-2020-5-06-2020

Faculty Name : Dr. V.Maria Anu

Event :International Conference session chair

Date and Year : July 15th 2020

Faculty Name : Dr. V.Maria Anu

Event : Finite Automata-Guest Lecturer

Year : June 22nd – June 26th,2020

Faculty Name : Dr. R.M.Gomathi

Event : The Ambient Intelligence & Humanized Computing -Journal Reviewer

Year : 2020

DEPARTMENT OF INFORMATION TECHNOLOGY
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ACADEMIC YEAR 2020-2021

S.NO	NAME OF THE FACULTY	PROGRAM	NATURE OF INTERACTION	YEAR
1	Dr.S.Revathy	KSII Transactions on Internet and Information Systems	Journal Reviewer	2021
2	Dr.V.Maria Anu	KSII transactions on internet and information systems	Journal Reviewer	2021
3	Ms.R.M.Gomathi	Journal of Ambient Intelligence and Humanized Computing	Journal Reviewer	2021

Academic year 2021-22

ACADEMIC YEAR 2021-2022S. NO	NAME OF THE FACULTY	PROGRAM	NATURE OF INTERACTION	YEAR
1	R. Subhashini,J. Joshua Thomas	Book Chapter-Advances of Artificial Intelligence in a Green Energy Environment	Journal Publication	2021
2	R. Subhashini,J. Joshua Thomas	Article-COVIDNet: Implementing Parallel Architecture on Sound and Image for High Efficacy	Journal Publication	2021
3	R. M. Gomathi,M. Nithya	Research Paper-Human activity recognition with smartphones using machine learning process	Journal Publication	2022
4	Dr.R.Subhashini	IIC IPR External Member	Innovation, Startup and Entrepreneurship	2022
5	Dr.R.Subhashini	Resource Person	Technical Talk	2022

6	Dr.R.Subhashini	Resource Person	Technical Talk	2022
7	Dr.Jeberson	Student Project Scheme 2021 - 2022	Student Project	2021

Chapter 11

Artificial intelligence–based intelligent geospatial analysis in disaster management

R. Subhashini¹, J. Joshua Thomas², A. Sivasangari¹, P. Mohana³, S. Vigneshwari¹ and P. Asha¹

¹School of Computing, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India, ²UOW Malaysia KDU Penang University College, Penang, Malaysia, ³Centre for Remote Sensing and Geo-informatics, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu, India

11.1 Introduction

Mankind has to follow the survival of the fittest strategy to fight against the natural disasters over the past few decades. Landslides are one among the prevailing natural hazards which claims lives, livelihoods, sizable infrastructural losses, and environmental damages. By using the remote sensing technology,



Article

COVIDNet: Implementing Parallel Architecture on Sound and Image for High Efficacy

Manickam Murugappan ¹, John Victor Joshua Thomas ¹ , Ugo Fiore ^{2,*} , Yesudas Bevis Jinila ³ and Subhashini Radhakrishnan ³

¹ Department of Computing, UOW Malaysia, KDU Penang University College, Penang 10400, Malaysia; manickam1999@gmail.com (M.M.); jjoshua@kdupg.edu.my (J.V.J.T.)

² Department of Management and Quantitative Studies, Università degli Studi di Napoli Parthenope, Via Gen. Parisi, 13, 38, 80133 Napoli, Italy

³ Department of Information Technology, Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai 600119, India; bevishjinila.it@sathyabamauniversity.ac.in (Y.B.J.); ithod@sathyabama.ac.in (S.R.)

* Correspondence: ugo.fiore@uniparthenope.it



Citation: Murugappan, M.; Thomas, J.V.J.; Fiore, U.; Jinila, Y.B.; Radhakrishnan, S. COVIDNet: Implementing Parallel Architecture on Sound and Image for High Efficacy. *Future Internet* **2021**, *13*, 269. <https://doi.org/10.3390/fi13110269>

Abstract: The present work relates to the implementation of core parallel architecture in a deep learning algorithm. At present, deep learning technology forms the main interdisciplinary basis in healthcare, hospital hygiene, biological and medicine. This work establishes a baseline range for training hyperparameter space, which could be support images, and sound with further development of parallel architectural model using multiple inputs with and without the patient's involvement. The chest X-ray images input could form the model architecture include variables for the number of nodes in each layer and dropout rate. Fourier transformation Mel-spectrogram images with the correct pixel range use to convert sound acceptance at the convolutional neural network in embarrassing parallel sequences. COVIDNet the end user tool has to input a chest X-ray image and a cough audio file which could be a natural cough or a forced cough. Three binary classification models (COVID-19 CXR, non-COVID-19 CXR, COVID-19 cough) were trained. The COVID-19 CXR model classified between healthy lungs and the COVID-19 model meanwhile the non-COVID-19 CXR model classified between non-COVID-19 pneumonia and healthy lungs. The COVID-19 CXR model has an accuracy of 95% which was trained using 1681 COVID-19 positive images and 10,895 healthy lungs images. Meanwhile, the non-COVID-19 CXR model has an accuracy of 91% which was trained using 742



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai – 600 025
Ph : 044-22301428, Telefax : 044-22301552 www.tanscst.nic.in

Dr.R.Srinivasan, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA).,
Member Secretary

Lr.No.TNSCST/SPS/2021-2022/

11.03.2022

To
The Registrar
Sathyabama Institute of Science and Technology
Jeppiar Nagar, Rajiv Gandhi Salai
Chennai- 600119

Sir/Madam,

Sub: TNSCST – Student Project Scheme (2021-2022) – approval intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and seminar paper in time.

No	Guide Name and Institutional Address	Title of the Project	Students Name	Project Code	Amount
1	Dr.S.Jackson Durairaj Scientist - C, Centre for Molecular and Nanomedical Sciences Sathyabama Institute of Science and Technology Jeppiar Nagar, Rajiv Gandhi Salai Chennai- 600119	Earthworm a unique model to monitor the electromagnetic hazards associated with the exposure of high voltage overhead electric lines	Harshavardhini Parthiban Ranjitha Vijay Anand	BS-172	7500/-
2	Dr.R.Jeberson Retna Raj Associate Professor, Department of Information Technology Sathyabama Institute of Science and Technology Jeppiar Nagar	Automated car door open warning and locking safety system	Mokitha.B , Sanjudha	CSE-0650	7500/-

Human activity recognition with smartphones using machine learning process

¹Sneha. J

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Sathyabama Institute of Science
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³M. Nithya

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Abstract—Identifying human exercises requires foreseeing human exercises dependent on sensor information. Lately, it has become known for its numerous product applications that utilization current PC equipment. It records data on exercises like strolling, climbing steps, venturing down, sitting, standing, and resting. Sensor detecting was performed utilizing a speedometer and a spinner, and a sensor (speed and whirligig) sensor was recently performed utilizing a commotion channel. Sensor speed signals incorporate weight and body parts that are isolated by body speed and weight utilizing a little Butterworth channel. The power of gravity is viewed as just a little division. Property boundaries have been found in computing changes over and over once more. The objective is to precisely foresee machine-based procedures to decide human movement. Information investigation utilizing SMLT, change location, single direction examination, two-layered and multifaceted investigation, negation, information approval,

Big data platforms: MongoDB, Oracle, Microsoft A Cloudera. The most common way of distinguishing human exercises is basically the same as the overall arrangement of data frameworks and includes many strides, information assortment to execution. This strategy includes changing the rundown of information extricated from sensor to give a superior model of human action. The framework for cell phones has a gadget that takes all information dependent on AI methods like a couple of calculations (for example SVM, choice tree, Memory distinguish transforms, one-variable investigation, variable-and-numerous data Different examination, loss significant worth, data treatment, examination/readiness, and data portrayal are performed totally settled inform.

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Department of Information Technology and Computer Science Engineering organizes

"6 Days Faculty Development Programme on Emerging Technologies on Recent Trends"

Day 1 to Day 3 :Robotics Process Automation



Mr.FENELEIN GEORGE

Automation Lead
Neighborhood Health Plan of Rhode
Island (NHPRI)

Day 4 :Introduction to data lake and cre
of medical data lake repositor



Mr.M.DILLI BABU

Associate Professor
Department of Information Technology
Panimalar Engineering College

Day 5 :Data Science through Data
Mining



Dr. B. ANNI PRINCY

Professor & Head,
Department of Computer and
Communication Engineering
Panimalar Engineering College

Day 6 :Role of AI in Robotics



Dr.R.SUBHASHINI

Professor and Head,
Department of Information
Technology
Sathyabama Institute of Science and
Technology, Chennai

CONVENORS:

Mr.R.Annamalai
Associate Professor-IT department
Dr.Tamilarasi
Associate Professor-CSE department

FACULTY COORDINATORS:

Ms.Scinthia Clarinda
Assistant Professor-IT department
Ms.Gladdis Merlin
Assistant Professor-CSE department

 : 28.02.2022 to 05.03.2022

 : 10.00 am-11:00 am

 : <https://forms.gle/U4jXTZEjddWTYvb8>

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