



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing

Department of Computer Science and Engineering

Winter Semester (2020-2021)

Event Completion Report

Workshop on

**Content Based Image Retrieval in Real Time Medical Images-
Approaches and Applications**

22.04.21 and 23.04.21

Organized By

Dr.S.Sridevi

Asso.Prof, Dept of CSE.



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1. Approval Letter:

14/3/2021

16/3/21

16-03-2021

From,

Dr.S.Sridevi (TTS3217),
Associate Professor / CSE,
Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology,
Avadi,
Chennai - 600062

To

The Vice Chancellor
Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology,
Avadi,
Chennai - 600062

//Through Proper Channel//

Sir,

Sub: Proposal for organizing an Online Workshop for Two days- Regarding.

The Department of Computer Science and Engineering proposes to organize an Online workshop on "Content Based Image Retrieval in real time Medical Images-Approaches and Applications" from 22.04.21 to 23.04.21 through Google Meet due to COVID 19 Pandemic Situation. This workshop is meant to enrich the knowledge of the faculty members of CSE in recent technologies.

The name of the expert and her affiliation is given hereunder:

Name of the Expert	Affiliation
Dr.C.Calins Christiyana	Sethu Institute of Technology, Virudhunagar

The expenditures that would be incurred to organize the above said workshop is furnished below:

Estimated Expenditure

S.No	Item of Expenditure	Amount (Rs)	Pay to Whom
1.	Resource Person	10000 (for 2 days)	Dr.S.Sridevi
2.	Certificates and Other Miscellaneous	2000	Dr.S.Sridevi
	Total	Rs.12000	

Kindly approve this proposal.

Handwritten signature and date 15/3/21

S. Sridevi

Yours faithfully,

Vel Tech

Handwritten signature and date 16/3/21

Dr.S.Sridevi

2. Event Summary Sheet

Objective: To understand the concepts of various Image processing techniques and the overview of content based image retrieval in real time medical images. To provide students hands on experience on the essentials applications and approaches of image retrieval system.

Inaugural:

Venue: Online mode through Microsoft Teams

Date: 22-04-2021 & 23.04.21 [10am to 12.00 pm & 2.00 pm to 4.00 pm]

Resource Person:

Dr.C.Callins Christiyana
Professor & Dean (DAC)
Sethu Institute of Technology
Virudhunagar Dist

The workshop was started with the welcome address given by Dr S.Sridevi, Associate Professor, Department of CSE. following that Dr. A.kavitha introduced the resource person to the students. The session was started exactly at 10.10 am.

The first day session was started by Dr.C.Callins Christiyana, with the introduction about the Image processing fundamentals with real time examples and she explained how spatial domain processing was carried out with the help of real time medical data

The resource person explained about the importance of spatial filtering and how spatial filtering was done. She also explained about the types of spatial filtering. She clearly explained about correlation and convolution matrix and the calculation related to it with real time examples

In the afternoon session, the resource person started the session with padding and how the padding plays a role in image processing and how to derive histogram formation for an image and the importance of histogram followed by intensity level transformation.

The speaker demonstrated various filtering techniques and histogram formation and motivated the students to do the same using python platform. she also provided hands on session on spatial convolution, correlation, linear filtering nonlinear filtering using python

The second day session was started at 10am sharply with an introduction about content based image retrieval system and the fundamentals involved in it. Dr.Callins Christiyana, explained about various feature extraction methods and demonstrated detailed procedure of extracting features from GLCM and Local Binary Pattern (LBP) using a medical image and she also briefed about the similarity metrics and the usage of it using an example. She interestingly

motivated the students to calculate similarity metrics for a given image. She also explained how to evaluate the performance of the same through demonstration

In the afternoon session, she completely focussing on practice problems on formation GLCM 0° , GLCM 45° , GLCM 90° , and GLCM 135° normalized matrices. she demonstrated using python, the formation of histogram from LBP and LTP images. She insisted the students to calculate the precision and recall for sample output.

Finally she discussed and demonstrated the IDL program for designing CBIR system using LBP feature.

Outcome of the Event:

The students are able to understand the fundamentals of image processing and various techniques for content based image retrieval system.



Dr.C.Callins Christiyana Academic Profile

Dr.C.Callins Christiyana completed her B.E Computer Science and Engineering from National Engineering College in the year 2001. She completed M.Tech- Computer and Information Technology from Manonmaniam Sundaranar University in the year 2007. She completed her Ph.D in Medical Image Processing from Anna University, Chennai in the year 2016. She is currently working as a Professor in the Department of Computer Science and Engineering, Sethu Institute of Technology. She had totally 19 and 1/2 years of teaching experience. She published 20 + papers in International Journals and conferences. She delivered nearly 10 guest lectures to various Engineering Colleges and Arts Colleges in Theory of Computation, Data Structures, Analysis of Algorithms and Compiler Design. She organized 8 programmes including AICTE FDP, STTP as a coordinator. She published Computer Fundamentals and Programming in C book under Pearson Publications. She received the total fund of Rs. 10.55 lakhs from AICTE to organize FDP and STTP.

4. Banner & Invitation:

REGISTRATION FORM

(To be filled in block letters)

Name: _____

Designation: _____

Organization: _____

Address: _____

Mobile: _____

Email ID: _____

Signature _____

Workshop Registration:

Registration for the Workshop shall be done through online with the following registration link.

<https://cutt.ly/yxEKdT3>

IMPORTANT DATES

Last Date for Registration : 15.04.2021

Date of Confirmation : 17.04.2021

CHIEF PATRONS

Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder President

Dr. Sugunthala Rangarajan
Foundress Chancellor

PATRONS

Dr. S. Sathyanathan
Vice Chancellor

WORKSHOP CO-ORDINATOR

Dr. S. Sridevi
Associate Professor,
Dept. of CSE

RESOURCE PERSON

Dr. C. Collins Christiyana
Professor - Dept. of CSE,
Sri Sathya Institute of Technology, Vandalur



Vel Tech
Rangarajan Dr. Sugunthala
R&D Institute of Science and Technology
(Deemed to be University) - Vandalur, Chennai

Two Days Online Workshop on

Content Based Image Retrieval in Real Time Medical Images - Approaches and Application



22nd & 23rd April 2021

THURSDAY & FRIDAY

ORGANIZED BY

Department of
Computer Science and Engineering,
School of Computing

CONVENER

Dr. V. Srinivasa Rao
Dean - SoC & HOD - CSE



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing, Department of Computer Science and Engineering
cordially invites you for the

Two days Online Workshop on

Content Based Image Retrieval in Real Time Medical Images - Approaches and Application



22nd & 23rd April 2021

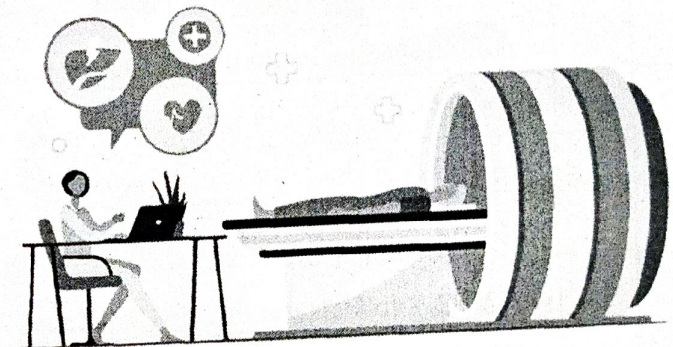
THURSDAY & FRIDAY

IN THE PRESENCE OF

Col. Prof. Vel. Dr. R. Rangarajan
Chancellor & Founder President

Dr. Sagunthala Rangarajan
Foundress President

Dr. S. Salivahanan
Vice Chancellor



CONVENOR

Prof. Dr. V. Srinivasa Rao
Dean - SoC & HoD - CSE

EVENT CO-ORDINATOR

Dr. S. Sridevi, Associate Professor
9940963713
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5. Participants List

22nd April 2021 to 23rd April 2021

Details of Participants

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8. Feedback form:

FEED BACK FORM

Two Days Online Workshop on Applications of Deep Learning Techniques in Medical Imaging to Monitor, Maintain, and Protect Medical Data from 15.04.2021 to 16.04.2021

* Required

Email address *

Your email

Name *

Your answer

Institution *

Your answer

Overall How satisfied were you with the topic? *

	1	2	3	4	5
Dissatisfied	☐	☐	☐	☐	☐
Very Satisfied					

How informative did you find the topic of presentation? *

	1	2	3	4	5
Not informative	☐	☐	☐	☐	☐
Very Informative					

How would rate the knowledge level of the resource person 1 *

	1	2	3	4	5
Poor	☐	☐	☐	☐	☐
Very High					

How would rate the knowledge level of the resource person 2 *

	1	2	3	4	5
Poor	☐	☐	☐	☐	☐
Very High					

How well was the session organised? *

	1	2	3	4	5
Very poor	☐	☐	☐	☐	☐
Very Systematic					

Any other Suggestions/comments. *

Your answer

 Send me a copy of my responses.

10. Certificate for Participants



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Approved by the University Grants Commission, New Delhi, 1988)

SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

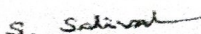
Certificate of Participation

This is to certify that Dr./Mr./Ms <<Name>>

<<Institution>>

has actively participated in the "Two Days Online Workshop on Content Based Image Retrieval in Real Time Medical Images-Approaches and Applications" held on 22.04.2021 to 23.04.2021 organized by Department of Computer Science and Engineering, School of Computing at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai.


HoD CSE & Dean SoC
Prof. Dr. V. Srinivasa Rao


Vice Chancellor
Prof. S. Salivahanan

11. Expenses and Bill

27 Apr 2021	IMPS-111711196726-Callins Christiyana C-UTIB-xxxxxxxxxx4749-for sessions handled from 22nd and 23rd april21	111711196726	27 Apr 2021	10,000.00
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