Ref: MSRCASC/CSc/20-21/004

Date: 10/6/2021

CIRCULAR

Department of Computer Science

The department is conducting a National Level Virtual Workshop on **"Applications of Neural Networks in Image Processing and Visualization"** for all the students of BCA, BSc EMCs and other students on 14th June 2021. Registration is free and e-certificates will be provided for the participants.

Resource Person: Dr. Jayshree V
Rtd HOD Electrical & Professor Electronics(PG)
Textile and Engineering Institute
Ichalakaranji, Maharastra
Time: 11am onwards

HOD

Head Of The Department Of Computer Science
M. S. Ramaiah College Of
Arts Science And Commerce
MSRIT Post, Bangalore - 560 054

Principal

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

RAMAIAH
College of Arts, Science & Commerce

National Level
VIRTUAL WORKSHOP ON
APPLICATION OF NEURAL NETWORKS IN IMAGE PROCESSING AND VISUALIZATION

RESOURCE PERSON

Dr. V. Jayashree
Rtd. HOD Electrical & Professor
Electronics (PG)
Textile and Engineering Institute

🗓 **14TH JUNE 2021**   🕐 11:00AM-1:00PM

LIVE ON GOOLE MEET

https://meet.google.com/zbg-phgn

ORGANISED BY
DEPARTMENT OF COMPUTER SCIENCE

Ramaiah College ofArts, Science and Commerce
Bengaluru - 560054

ABOUT THE COLLEGE

Ramaiah College of Arts, Science and Commerce was established in 1994 by our founder Late Dr M S Ramaiah offering both under graduate and post graduate degrees offered by Bengaluru city University in Arts, Science and Commerce and Management streams. The college is approved by AICTE, New Delhi, recognized by the Government of Karnataka. The college is re-accredited "A" grade by NAAC

ABOUT THE WORKSHOP

SCHEDULE

DATE: 14TH JUNE 2021
TIME: 11:00AM - 12:00PM
TOPIC: Concepts of Computer Vision

TIME: 12:00PM - 1:00PM
TOPIC: Artificial Neural Networks in Image Recognition

OBJECTIVE

To introduce the concepts of image processing and basic analytical methods to be used in image processing

OUTCOMES

Understand the need for image transforms and to develop any image processing application

PATRONS

Dr. MR Jayaram Chairman GEF

Sri. M R Janakiram Director GEF

Sri.M R Kodandaram Director GEF

Sri. B S Ramaprasad Chief Executive GEF (E & GS)

Sri. G Ramachandra Chief of Finance GEF (E & GS)

Dr. A.Nagarathna , Principal RCASC

ORGANISING COMMITTEE

Dr. Prathiba V Kalburgi, HOD

Dr. A Malathi Palani, Assistant Professor

Mrs. Haripriya G S, Assistant Professor

Mr.LakshmiPathi V, Assistant Professor

Mrs. Srividya R, Assistant Professor

PROGRAM CO-ORDINATORS

Mrs.Suma C, Assistant Professor

Mrs. Dhanashri Vaishali, Assistant Professor

REGISTRATION DETAILS

Free Registration
Click on the Link below

https://forms.gle/vVqy3giSL19reEDV7

Department of Computer Science

Report

Workshop on Applications of Neural Networks in Image Processing and Visualization

Date: 14/07/2021

Event Coordinator: Suma C, Dhanashri Vaishali

No of Students participated: 83

Objective: To introduce the concept of image processing and basic analytical methods to be used in image processing

A national level virtual workshop on 14ᵗʰ July 2020 was organized by the Department of Computer Science. The Resource person was Dr V Jayashree , Rtd ,HOD Electrical and Professor Electronics(PG) Textile and Engineering Institute

The workshop was on "Applications of Neural Networks in image Processing and Visualization ".

Resource person gave introduction to image processing in the beginning of the workshop she defined Image processing is a way to convert an image to a digital aspect and perform certain functions on it, in order to get an enhanced image or extract other useful information from it. It is a type of signal time when the input is an image, such as a video frame or image and output can be an image or features associated with that image. the Image Processing system includes treating images as two equal symbols while using the set methods used.

It is one of the fastest growing technologies today, with its use in various business sectors.

Image processing basically involves the following three steps.
Importing an image with an optical scanner or digital photography.
Analysis and image management including data compression and image enhancement and visual detection patterns such as satellite imagery.

Principal,
M.S. Ramaiah College of Arts, Science & Commer
MSRIT Post, MSR Nagar

It produces the final stage where the result can be changed to an image or report based on image analysis.

Image processing is a way by which an individual can enhance the quality of an image or gather alerting insights from an image and feed it to an algorithm to predict the later things

Original   Filtered
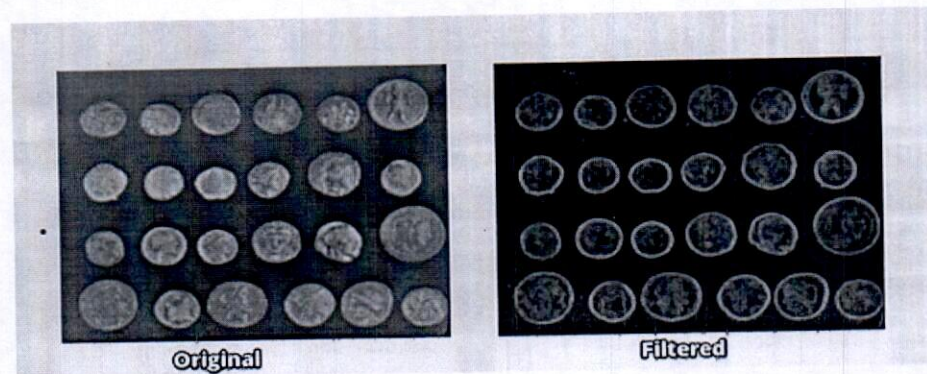
The resource person told about the types of neural networks

- Artificial Neural Networks (ANN)
- Convolution Neural Networks (CNN)
- Recurrent Neural Networks (RNN)

She also gave an insight on neural networks where it is based on models of the human brain and are composed of a large number of simple processing elements that operate in parallel. In the human brain, more than a billion elements or cells, called neurons, are individually connected to tens of thousands of other neurons. Although each cell operates like a simple processor, the massive interaction among them makes vision, memory, and thought processes possible.

To obtain a background marker, the binary image from the threshold operation was inverted, and the distance from every pixel in the background to the nearest pixel inside a seed was computed. These maximum distances form a meshwork of ridges between the seeds that define a region of influence for each seed. By isolating this meshwork using an auxiliary watershed operation followed by a threshold, a binary image of the background marker was computed. The seed marker and the background marker binary images were then added together and a frame was added around the image

Outcome: Understand the need for image transform and to develop any image processing applications

Principal,
M.S. Ramaiah College of Arts, Science & Commu
MSRIT Post, MSR Nagar
Bangalore - 560 054

Workshop on Applications of Neural Networks in Image Processing and Visualization
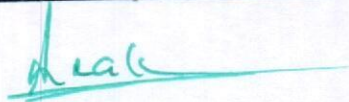
Date: 14/07/2021

Department of Computer Science
Workshop on Application of Neural Networks in Image Processing and Visualization- 14-6-2021

Sl.No	Timestamp	Name	Register no	Semester	College Name	State
1	6-13-2021 20:12:50	Manjunath A Gaded	R1917637	4	Ms Ramaiah College of arts science,and commerce	Karnataka
2	6-13-2021 20:14:28	Riya Sinha	R1917661	4	MS Ramaiah college of arts science and commerce	KARNATAKA
3	6-13-2021 20:15:05	Aneesh MR	R1817609	6	Ms Ramaiah	Karnataka
4	6-13-2021 20:16:59	Sadiyah Azra	R1917664	4	Ms ramaiah of arts science and Commerce	Karnataka
5	6-13-2021 20:18:09	Rajshri	R1917659	4	MS RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE	Karnataka
6	6-13-2021 20:18:37	Gowri.S	R1917618	4	Ramaiah college of arts science and commerce	Karnataka
7	6-13-2021 20:19:46	SURYA SD	R1817672	6	Ms ramaiah college of arts and science and commerce	Karnataka
8	6-13-2021 20:23:07	Manisha Kumari	R1917636	4	M.s. Ramaiah college of art , science and commerce	Bihar
9	6-13-2021 20:28:43	Likitha	R1917631	4	MS ramaiah	Karnataka
10	6-13-2021 20:31:54	G.MohanVamsi	1	4	Sri Gnanambica degree college	Andhra Pradesh
11	6-13-2021 20:41:12	Nayana B K	R1817648	6	M.S.Ramaiah College of Arts Science and Commerce	Karnataka
12	6-13-2021 20:41:12	Priyadarshini S	S1814635	6	Ramaiah college of arts science and commerce	Karnataka
13	6-13-2021 20:41:26	VYSHNAV MV	R1917679	4	Ramaiah college of Art, science and commerce	Karnataka
14	6-13-2021 20:42:28	Anis Das	R1917606	4	Ramaiah collage of arts science and commerce	Karnataka
15	6-13-2021 20:43:26	Menaka.bm	S1814631	6	MS RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE	Karnataka
16	6-13-2021 20:53:53	Shiva sahani	R1817666	6	Ramaiah college of arts, science and commerce	Karnataka
17	6-13-2021 20:54:34	Swathi.o	R1917672	4	Ramaiah college of arts science and commerce	Karnataka
18	6-13-2021 20:55:04	Chandan N	S1814623	6	Ms ramaiah ckg if arts sciens and commerce	Karnataka
19	6-13-2021 21:02:20	Akshitha R	R1917605	4	MSRCASC	Karnataka
20	6-13-2021 21:04:55	Uma	R1917675	4	Ramaiah College of Arts Science and Commerce	Kerala
21	6-13-2021 21:29:19	Supriya Goswami	R1917670	4	MSRCASC	Karnataka
22	6-13-2021 21:40:58	S keerthika	S1814646	6	M s ramaiah college of arts science and commerce	Andhrapradesh
23	6-13-2021 22:03:05	Tejashree P	R1817674	6	MS Ramaiah College Of Arts Science And Commerce	Karnataka

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

24	6-13-2021 22:29:22	Sachin kumar	R1917663	4	MS Ramaiah College of Arts Science and Commerce	Bihar
25	6-13-2021 23:10:50	Priyanka m	09	4	Ms Ramaiah	Karnataka
26	6-13-2021 23:52:57	Rajshekar	R1816738	6	Ramaiah institute of business studies	Karnataka
27	6-13-2021 23:54:15	Prajwal G	R1817654	6	Ramaiah college of arts science and commerce	Karnataka
28	6-14-2021 5:52:50	SPANDANA.N.C	R1917669	4	MS Ramaiah College Of Arts Science And Commerce	Karnataka
29	6-14-2021 8:07:35	YETURU KHADER NIKESH	S1814656	6	MSRCASC	Karnataka
30	6-14-2021 8:15:13	Surya Prakash	S1814648	6	Ms Ramaiah college of arts science and commerce	KARNATAKA
31	6-14-2021 8:15:23	Pranshu Anand	R1917654	4	Ramaiah college of arts science and commerce	Karnataka
32	6-14-2021 8:28:24	Nishanth N	R1917645	4	MS Ramaiah	Karnataka
33	6-14-2021 8:34:41	Nithesh A Kumar	R1917646	4	Ramaiah college of arts science and commerce	Karnataka
34	6-14-2021 8:35:57	Nithesh A Kumar	R1917646	4	MS Ramaiah college of arts science and commerce	Karnataka
35	6-14-2021 8:45:41	Upasana H N	1BY19EE052	6	BMS Institute of Technology	Karnataka
36	6-14-2021 8:47:11	Navanigha K K	R1917642	4	MS Ramaiah college of arts, science and commerce	Karnataka
37	6-14-2021 9:09:42	Nerosha SK	R1917643	4	M. S. Ramaiah college of arts, science and commerce	Karnataka
38	6-14-2021 9:24:17	Gunavardhini.L	R1917620	4	Ms ramaiah	Karnataka
39	6-14-2021 9:25:18	Gunavardhini.L	R1917620	4	Ms ramaiah arts and science	Karnataka
40	6-14-2021 9:32:37	Ashwitha Adiga K	S1814621	6	MS Ramaiah college of arts,science and commerce	Karnataka
41	6-14-2021 9:33:50	Vani R Shetty	S1814652	6	M S Ramaiah college of arts science and commerce	Karnataka
42	6-14-2021 9:41:10	R. Thanushree	R1917655	4	Ms . Ramaiah college of arts science and commerce	Karnataka
43	6-14-2021 9:44:43	Shahzad Bin Shahjahan	R1917666	4	MS Ramaiah College of Arts, Science and Commerce	Karnataka
44	6-14-2021 10:20:57	Pooja.B.H	R1817653	6	M.S.Ramaiah College Of Arts,Science and Commerce	Karnataka
45	6-14-2021 10:22:05	Madhurashree N	R1817640	6	Ramaiah college of arts,science and commerce	Karnataka
46	6-14-2021 10:27:12	Priyanka A	S1814636	6	M S Ramaiah College of Arts, Science and Commerce	Karnataka

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 0~

47	6-14-2021 10:27:26	Bhavana R	S1814622	6	MS RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE	Karnataka
48	6-14-2021 10:28:28	Govinda T	S1814626	6	M S Ramaiah college of Arts, science and Commerce	Karnataka
49	6-14-2021 10:34:33	Rohith M	R1822317	6	M S Ramaiah College Of Arts,Science & Commerce	Karnataka
50	6-14-2021 10:34:57	Pushpanjali H R	R1812450	6	M S Ramaiah college of Arts science and commerce	Karnataka
51	6-14-2021 10:35:16	Keshav Verma	R1817634	6	RAMAIAH COLLEGE OF ARTS, SCIENCE & COMMERCE	karnataka
52	6-14-2021 10:36:51	P VINOD KUMAR	R1817652	6	MS Ramaiah College of Arts Science and Commerce	KARNATAKA
53	6-14-2021 10:45:41	Kaviya	S1814628	6	MS Ramaiah of arts science and commerce	Karnataka
54	6-14-2021 10:52:22	Govardhan.D.Nath.	R1917617	4	MSRCASC	Karnataka
55	6-14-2021 10:52:44	P Srirekha	R1917647	4	MSRCASC	Karnataka
56	6-14-2021 10:52:49	Sindhu	R1917668	4	Ramaiah college of arts, science and commerce	Karantaka
57	6-14-2021 10:53:09	Kishan Kumar Upadhyay	R1917630	4	MSRCASC	Kanataka
58	6-14-2021 10:53:09	Yogini Arora	R1917680	4	Ms Ramaiah college of arts science and commerce	Karnataka
59	6-14-2021 10:53:27	Manisha Kumari	R1917636	4	M.s. Ramaiah college of art , science and commerce	Bihar
60	6-14-2021 10:53:38	Deekshitha	R1917610	4	Ms Ramaiah collage of arts science and commerce	Karanataka
61	6-14-2021 10:54:41	Saima Farha Khan	R1817661	6	MSRCASC	Karnataka
62	6-14-2021 10:57:21	Sunkara Reddy Deepika	17W51A0469	8	Sir Vishveshwaraiah Institute Of Science & Technology	Andhra Pradesh
63	6-14-2021 10:57:29	Pranav Pandey	R1917653	4	MSRCASC	Karnataka
64	6-14-2021 10:58:36	Sanjay VS	R1818063	7	Vivekananda Institute of Management	Karnataka
65	6-14-2021 11:00:28	Prem sawant	R1817656	6	M S Ramaiah college of arts science and commerce	Karnataka
66	6-14-2021 11:00:38	Vivek Kumar	R1917678	4	M.S. Ramaiah College of Arts, Science and Commerce	Bengaluru
67	6-14-2021 11:01:23	Vivek Kumar	R1917678	4	M.S.Ramaiah College of Arts, Science and Commerce	Karnataka
68	6-14-2021 11:01:55	Thejas BS	R1817676	6	Ramaiah college of Arts,Science and Commerce	Karnataka
69	6-14-2021 11:02:10	Vivek Kumar	R1917678	4	M.S.Ramaiah College of Arts, Science and Commerce	Karnataka
70	6-14-2021 11:08:31	HARSHA R	R1917623	4	MSRCASC	Karnataka

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

71	6-14-2021 11:15:38	Vivek Iyer	S1914630	4	Ramaiah College of Arts Science and Commerce	Karnataka
72	6-14-2021 11:16:22	NIKHILESH B	S1914639	4	MS RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE	karnataka
73	6-14-2021 11:16:59	Revathi. V	S1914643	4	Ramaiah college of arts science and commerce	Karnataka
74	6-14-2021 11:18:48	Dhananjaya M	S1914625	4	Ramaiah college of arts science and commerce	Karnataka
75	6-14-2021 11:18:49	Abhishek G S	S1914615	4	Ms Ramaiah college of arts science and commerce	Karnataka
76	6-14-2021 11:19:32	Neha Kumari	S1914638	4	Ramaiah college of arts science and commerce	Karnataka
77	6-14-2021 11:19:33	Shivaki Gowda kn	S1914647	4	MSRCASC	Karnataka
78	6-14-2021 11:28:18	Shradha S Vadhone	S1914648	4	MS Ramaiah College of Arts Science and Commerce	Karnataka
79	6-14-2021 11:57:38	Vinitha Handa	S1914650	4	MS ramaiah college of arts,science and commerce	Karnataka
80	6-14-2021 14:38:16	Upasana H N	1BY19EE052	3	BMS Institute of Technology	Karnataka
81	6-14-2021 18:11:21	Rohith M	R1822317	6	M S Ramaiah College Of Arts,Science & Commerce	Karnataka
82	6-15-2021 1:05:39	Upasana H N	1BY19EE052	3	BMS Institute of Technology	Karnataka
83	6-20-2021 16:27:14	Aneesh MR	R1817609	6	MSRCASC	Karnataka

Principal,
M.S. Ramaiah College of Arts, Science & Commerc
MSRIT Post, MSR Nagar
Bangalore - 56