

J.B.INSTITUTE OF ENGINEERING & TECHNOLOGY UGC AUTONOMOUS (Accredited by NAAC, Permanently Affiliated to JNTUH)

YENKAPALLY (V), MOINABAD (M), RANGA REDDY, DISTRICT HYDERABAD. , MOINABAD, Hyderabad, 500075



Guest Lecture on Image Processing and its Application On 8th Feb 2023

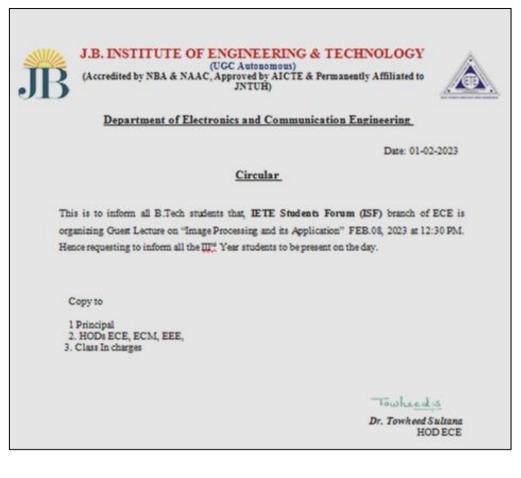
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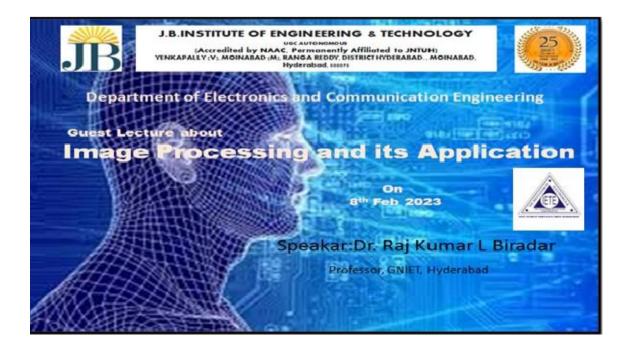


Department of Electronics and Communication Engineering

<u>Circular</u>



Guest lecture Date: FEB.08, 2023 Number of participants: 112 Guest Lecturers: 01



SUMMARY OF EVENT:

OBJECTIVE	Awareness in image processing
CONVENOR	Mr.Rajkumar D Bhure
RESOURCE PERSONS	Dr.B Rajkumar
COORDINATOR(S)	Mrs.E Shilpa and Mr.D Kotya

PROGRAM REPORT

Image processing is the field of study that involves the manipulation of digital images using various techniques and algorithms to enhance their visual quality or extract useful information from them. It has numerous applications in various fields, including medicine, astronomy, security, robotics, and many others. In this report, we will discuss image processing and its applications.

Image Processing Techniques:

Image Enhancement: It is a technique used to improve the visual quality of an image by adjusting its contrast, brightness, color balance, and sharpness.

Image Restoration: It is a technique used to remove noise or blur from an image and restore it to its original state.

Image Compression: It is a technique used to reduce the size of an image without losing its visual quality.

Image Segmentation: It is a technique used to divide an image into multiple segments based on its features or properties.

Object Recognition: It is a technique used to identify and recognize objects in an image based on their shape, size, and color.

Applications of Image Processing:

Medical Imaging: Image processing plays a vital role in medical imaging, including X-rays, CT scans, MRI, and ultrasound. It helps in diagnosis, treatment planning, and monitoring the progression of diseases.

Remote Sensing: Image processing is used in satellite imagery to monitor weather patterns, natural disasters, and crop growth. It is also used in mapping and land use planning.

Security: Image processing is used in security systems, including facial recognition and fingerprint recognition, to identify individuals and prevent unauthorized access.

Robotics: Image processing is used in robotics to enable robots to recognize and interact with their environment.

Entertainment: Image processing is used in the entertainment industry, including video games and movies, to create special effects and animation.

Conclusion:

In conclusion, image processing is a rapidly growing field with numerous applications in various fields. Its techniques and algorithms play a vital role in improving the visual quality of images and extracting useful information from them. Its applications in medicine, remote sensing, security, robotics, and entertainment continue to expand, making it a critical field of study for the future.

Strengths

Participants who have attended the Guest Lecture on "Image Processing and its Application' given a good response and expressed gaining more knowledge within a short time period. The Speaker have given an idea about scope of Research in this Area. Participants felt more effective and demonstrations are useful

Suggestions:

Participants Expected to have hands-on Session Duration of the program should be little bit extended

ROLL NUMBER S.N Roll No S.No Student Name Student Name 0 19671A0401 ATTURI AKANKSHA BHARATH CHANDRA VIPPARTHI 1 19671A0451 19671A0402 ALLAMANENI AMRUTH 2 19671A0453 BILLAKANTI SAI NITHISH 2 3 19671A0454 B TARUN 19671A0403 ARELLI KIREETI 3 19671A0455 CHILUVERU VARUN 19671A0404 B DINESH REDDY 4 4 5 19671A0456 CHINTHALA DEVAYANI 19671A0405 BALAJI KONKISA 6 19671A0457 DANTHAM SANTHOSH 19671A0406 BANOTH SAIRAM DAREDDY SHIVA REDDY 19671A0458 19671A0407 BHUKYA NAVEEN 7 8 DASARI VAMSI KRISHNA 19671A0459 19671A0408 BURRI THARUN KUMAR 9 19671A0460 DULAM AKSHAYA 19671A0409 CHEEPURUPALLI SAI SREE 0 19671A0462 GITTE SRISAILAM 10 19671A0410 D CALIX BENNY RUFUS 10 11 19671A0463 GORIGE SRAVYA 11 19671A0411 DESHINI SRAVANI GOURARAM MANIDEEP GOUD 12 19671A0464 12 19671A0412 DHARANIKOTA SATHWIK 19671A0465 13 G. BALU 19671A0413 DHONDI KHOBBANI SNEHITH KUMAR 13 19671A0466 TALARI AJAY KUMAR 14 19671A0414 D NEMISH 14 15 19671A0467 GOPALA YASHWANTH RAJ 19671A0415 DAREDDY HARSHITHA 15 KASULA MANOI 19671A0468 16 19671A0416 G CHARITHA 16 KEESARI RENUSREE 17 19671A0469 17 19671A0417 GARIGE SWAGATH 18 19671A0470 KINNERA HEMANTH 18 19671A0418 GOPU NANDINI RAN 19671A0471 KORADALA AMEEKSHA 19 19 19671A0419 GULAM SADEEDUDDIN 20 19671A0472 KUSUMADARI KESHAV KUMAR SAI 20 19671A0420 HRUTHIK RAO AVIRNENI 21 19671A0473 KODELA MAHESH 19671A0421 JEDIPALLY UDAY KIRAN REDDY 21 22 1967140474 MADINENI NAVYA 22 19671A0422 JAIDI VINEELA 23 19671A0475 MALISETTI VAMSHI 23 19671A0423 KANDUKURI SAISRIKAR 19671A0476 MEDA NIKHITA 24 19671A0424 KONDRA RAKSHITH REDDY 24 MILKURI SHIVAN 25 19671A0477 19671A0425 KOYYADA RAKESH 25 26 19671A0478 MOHAMMAD SAMEER PASHA 26 19671A0426 K AKHILA 27 19671A0479 MOOLA PRANAYA 19671A0427 KALLEM SARIKA 27 28 19671A0480 MUTHYALA LOKESH KUMAR 19671A0428 LINGAMPELLY SRIKARNA 28 29 19671A0481 MALIGIREDDY RADDHIKA 29 19671A0429 LOKAM AKHILESH 19671A0482 OLAPU LAXMAN 30 30 19671A0430 LALAM SHIVA 31 19671A0483 P SANDHYA 31 19671A0431 M KAVYA 19671A0484 PASUPULETI VENKATESH 32 19671A0432 MD IMRAN PASHA 33 19671A0485 POLASANI VAMSHI DESHAI 32 33 19671A0433 MODUGU SUNIL 34 19671A0486 PAMIDI ANUDEEP CHOWDARY 34 19671A0434 M SOUMITH REDDY 35 19671A0487 P VARUN KUMAR 19671A0488 SANAM SAMPURNA CHANDRA SHEKHAR 36 35 19671A0435 N AKHILA 37 19671A0489 SURU VINOD 36 19671A0436 NARSING BHARATH REDDY 38 19671A0490 SURAIYA SHABNAM 37 19671A0437 NEHRU SAI TOLUPUNURI HARSHITH KOUNDINYA 39 19671A0491 19671A0438 PERUKA VINEETH 38 40 19671A0492 TAKKALAPELLI AKHIL RAO 19671A0439 PAMIDI NAMRATHA 39 19671A0493 VEERAMALLA RANITH REDDY 41 40 19671A0440 PARIPELLI VAMSHI 42 19671A0494 VEMPALLI LASYA 19671A0441 PARVATHI SAITEJA 41 43 19671A0495 YANNA MAMATHA 19671A0442 RENUKUNTLA TEJASWAROOP 42 19671A0496 YELLA KAVYA 44 43 19671A0443 S UDAY SHANKAR 45 19671A0497 VENKATAPURAM PAVAN KUMAR 44 19671A0444 SABAVATH RAKESH NAIK 46 19671A0498 V. SATYADEV 45 19671A0445 SANA NAGA VENKATA SUBHASH NAIDU 19671A0499 BHUKYA VIJAY KUMAR 47 19671A0446 THOTA SRAVAN KUMAR 46 19671A04A0 MUNUGALA YESHWANTH REDDY 48 19671A0447 SANKA SATHVIK 47 20675A0408 KURUMALLA VAMSHI 49 48 19671A0448 TALARI HARSHITHA 50 20675A0409 SATHU GEETHABHAVANI 49 19671A0449 VANNELA MITHILESH 51 20675A0410 M TARUN KUMAR 50 19671A0450 VINUKONDA SNEHA 52 20675A0411 RANGU SRUJALA 20675A0401 DHANSHETTY KASHINATH 51 NAGULA VINEETH KUMAR 53 20675A0412 20675A0402 RAVIKUMAR RADHIKA 52 54 20675A0413 KOLLURI ANURAG 20675A0403 NAKKA SANDEEP 53 55 20675A0414 THANNERU PRAKASH 54 20675A0404 RIZWANA 56 18671A0423 KORANI VAMSHI VARDHAN (Re-admn) 20675A0405 THALLA SWATHI 55 57 18671A0424 KORRA BALRAM 56 20675A0406 CHITHALAPETA RAJA REDDY 58 18671A0435 K PAVAN (Re-admn) 57 20675A0407 KOMARI SHIREESHA ADIRINTI PRAPULLA KUMAR (Re-admn) 59 18671A0453 18671A0467 RATHNAM THIRUMALESH (Re-admn) 58 60 16671A0403 ADARSH KALLEPALLY (Re-admn)

Participants list

J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY UGC Autonomous III B.Tech- I Som ECE(A) - 2019 Batch - (2021-22) MATLAB WORKSHOP ON SIGNAL PROCESSING

J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous B.Tech-I Sem ECE(A) - 2019 Batch - (2021-22)

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CONVENOR Mr.Rajkumar D Bhure