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(Established by H.P. State Legislature vide Act No. 14 of 2002)

Centre of Excellence in Artificial Intelligence for Education (CoE-AIE)

Event: ClearVision Challenge: Image and Video Dehazing Competition
(23rd September – 11th October 2024)

Introduction

The *ClearVision Challenge: Image and Video Dehazing Competition* was organized by the Centre of Excellence in Artificial Intelligence for Education (CoE-AIE) during 23 September – 11 October 2024 with the aim of encouraging participants to develop cutting-edge solutions to dehaze images and videos obscured by haze or fog. These tasks hold practical importance for improving visibility in applications like autonomous vehicles, surveillance systems, and professional photography.The competition was successfully conducted with the efforts of faculty coordinators Dr. Hari Singh, Dr.Vipal Sharma, Prof.Tirath Raj Singh, and Prof.Shruti Jain, and M.Tech (DS) student coordinators Mr. Kunal and Mr. Robinson.

Over the course of two weeks, participants were challenged to apply image processing techniques, machine learning algorithms, and other innovative methods to enhance visibility in hazy conditions. The event attracted a diverse range of participants including students and professionals, all eager to showcase their technical skills.

Event Duration and Format

The *ClearVision*Challenge competition ran from **23rd September 2024 to 11th October 2024**, giving participants two weeks to develop, refine, and present their dehazing solutions.All activities were conducted **online** to allow flexibility in participation. Teams were given the freedom to work at their own pace, with access to datasets, feedback opportunities, and a final presentation session via virtual platforms.

Participants and Registration

A total of **14 teams** registered for the event, representing a diverse mix of students from first-year to final-year students. The participants came with backgrounds in computer vision, artificial intelligence, and related fields, bringing unique perspectives and skillsets to the competition.

- **Registration Period**: The registration process remained open until **30th September 2024**.
- The broad diversity in experience levels and the collaborative spirit of the event led to the generation of innovative solutions that were both technically sound and creative.

Background and Motivation

The competition was designed to address challenges posed by hazy or foggy conditions in fields like:

- **Photography**: Enhancing image clarity in poor visibility conditions.
- **Surveillance**: Improving the quality of surveillance footage in foggy environments for better security.
- **Autonomous Vehicles**: Ensuring that vehicle cameras can operate effectively under low-visibility weather conditions, thus increasing safety.

The goal was to inspire participants to explore solutions that could directly translate into real-world applications, pushing the boundaries of current dehazing techniques and technological possibilities.

Objectives of the Competition

The competition aimed to:

- Encourage participants to explore innovative solutions for image and video dehazing.
- Provide a platform for students and professionals to apply their theoretical knowledge in real-world problem-solving.
- Promote collaboration and the sharing of ideas in a competitive yet supportive environment.
- Evaluate the efficiency and effectiveness of different dehazing methods, taking into consideration time, computational costs, and resource limitations.

Phases of the Competition

The event was structured into three key phases:

Phase1: Introduction and Task Overview

The competition began with a detailed briefing mail sent out to thestudents of the institute

where were introduced to the challenge. They were provided with a dataset of hazed images and videos, along with an explanation of the criteria for successful dehazing.

Phase2: Development and Implementation

Participants were given two weeks to work on their solutions. They applied various image processing techniques, machine learning algorithms, and advanced video editing tools to achieve dehazed results. During this period, participants were encouraged to collaborate and refine their solutions through peer feedback.

Phase 3: Final Presentations and Judging

On the last day of the competition, participants submitted their final dehazed images and videos along with a report detailing their approach. Each team then presented their work, explaining the techniques used, the challenges they faced, and how they overcame these hurdles.

Judging Criteria

Participants were evaluated on several key criteria:

- **Technical Accuracy**: How effectively their methods removed haze and restored visibility.
- **Innovation**: The creativity and uniqueness of their approach.
- **Efficiency**: How computationally efficient their solutions were, considering the time and resources used.
- **Presentation**: How clearly and effectively they communicated their approach, the challenges they faced, and their results.

Judges assigned scores based on these categories, which determined the final rankings of the teams.

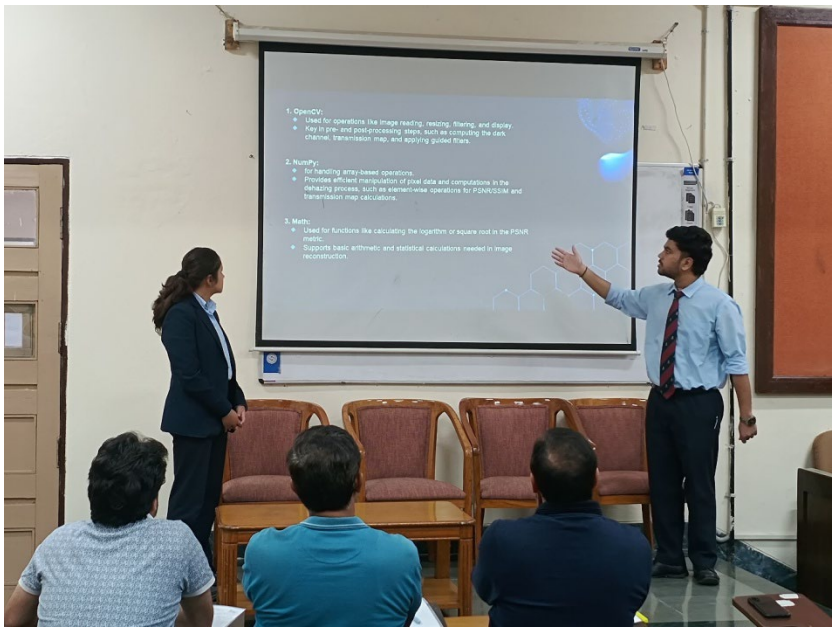
Presentation Day

The **Presentation Day** marked the culmination of three weeks of hard work, collaboration, and innovation. On this day, each team had the opportunity to showcase their dehazing solutions, explain their methodologies, and share their experiences in overcoming the technical challenges they encountered throughout the competition.

Teams showcased their work through detailed reports, visual examples, and live demonstrations of the before-and-after effects of their dehazing techniques on the provided images and videos. Judges evaluated the presentations based on the clarity of their explanation, the effectiveness of the dehazing process, the efficiency of their algorithms, and the innovation behind their solutions.

Here are the few glimpses of the day:


CLEAR VISION
CHALLENGE
Image and Video Dehazing



Winners

The competition concluded with the announcement of the winners:

- **First Place: Team NPCs (Second-Year Students)**
  Members: Saransh, Saarvi, and Nandini

- In Frame Dr. Hari Singh (leftmost), Dr.Shruti Jain(second from left),Prof.Vivek Kumar Sehgal(third from left),Prof.Tiratha Raj Singh(rightmost), Dr.Vipul Sharma(second from right), Saransh,Saarvi and Nandini(in center)

Second Place: Om Vishal (Final-Year Student)

In Frame Dr. Hari Singh (leftmost), Dr.Shruti Jain(second from left),Prof.Vivek Kumar Sehgal(third from left),Prof.Tiratha Raj Singh(rightmost), Dr.Vipul Sharma(second from right), Saransh,Saarvi and Nandini(in center)

- Second prize was bagged by Om Vishal, a Final year Student of our Insitution.
- In frame Om Vishal(center)

Third Place: Team Deep Fried Neurons (Third-Year Students)

Members: Ramandeep and Aditya

- Third prize was bagged by the team of our Third year Students titled “Deep Fried Neurons”.
- In frame Ramandeep and Aditya (center)

दैनिक सवेरा टाइम्स
अंधेरे से उजाले की ओर...

क्लियरविजन चैलेंज : इमेज और वीडियो डीहेजिंग प्रतियोगिता

सवेरा न्यूज

नई दिल्ली, 23 अक्तूबर : क्लियरविजन चैलेंजः इमेज और वीडियो डीहेजिंग प्रतियोगिता 23 सितंबर से 11 अक्तूबर तक सैंटर ऑफ एक्सीलैंस इन आर्टिफिशियल इंटैलिजैंस फॉर एजुकेशन (सीओई-एआईई) द्वारा आयोजित की गई, जिसका उद्देश्य प्रतिभागियों को छवियों और वीडियो को डीहेजिंग करने के लिए अभिनव समाधान विकसित करने के लिए प्रेरित करना है। संकाय सदस्यों डॉ. हरि सिंह, डॉ. विपल शर्मा, प्रो. तीर्थ राज सिंह और प्रो. श्रुति जैन के साथ-साथ एमटैक (डी.एस.) के छात्र समन्वयक कुणाल और रॉबिन्सन द्वारा समन्वित प्रतियोगिता में 14 टीमों ने विभिन्न शैक्षणिक स्तरों के छात्रों ने भाग लिया। पुरस्कार वितरण समारोह 18 अक्तूबर 2024 को आयोजित किया गया, जो इस आयोजन के सफल समापन का प्रतीक है। प्रथम स्थानः टीम एनपीसी द्वितीय वर्ष के छात्रः सारांश, सार्वी और नंदिनी और दूसरा स्थान अंतिम वर्ष का छात्र ओम विशाल, तीसरा स्थान टीम डीप फ्राइड न्यूरॉन्स तृतीय वर्ष के छात्र रमनदीप और आदित्य रहे।

दैनिक सवेरा Thu, 24 October 2024
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ıment where a row, learn and ential.
lowed by an in- rPoint presen- Shaveta Choud- highlighted the ground, infra- ademic stand- table achieve- er, she gave a tion about var- ents, Clubs of d the NSS and nme coordina- tors with an aim to acquaint the students with the opportunities and resources available for their academic and personal development. She encouraged the students to actively engage in both curricular as well as co-curricular activities that will enrich their college experience. There was also a vibrant interactive session with the students. Finally the programme concluded with the singing of National Anthem.

Extensive Tour of Poonch

EARLY TIMES REPORT

JAMMU, October 23: Director Horticulture Jammu, Sh. Chaman Lal Sharma, accompanied by MCC Sh. Anil Chhibber, completed a two-day tour of Poonch district to assess the progress of various horticulture schemes and developmental activities. Welcomed by Chief Horticulture Officer Sh. Sanjeev Kumar and other officers, the Director visited Government Fruit Plant Nurseries in Ari, Mendhar, and Mandi, reviewing projects like Apple mother blocks, Hi-Tech Polygreen Houses, and Geo tanks.

During his visit, Sh. Sharma chaired awareness camps in Ari and Mendhar, where he urged farmers, especially youth, to leverage schemes like HADP, JKCIP, and the Revised Modified HD Plantation to boost productivity and income. He distributed farm machinery and project sanction letters to beneficiaries under these programs.

Sh. Sharma also reviewed plantation projects and interacted with farmers, providing technical insights. He instructed officials to expedite development projects and meet targets by December 2024 to ensure timely utilization of funds.

ſR College of Commerce ı xelection trials

ncouraged the nd emphasized e of sportsman- lefense skills.
held under the f Mr. Ravi Ku- ıl Director of saw participa- rious students. ıshi, Director of cation & Sports at CLUJ, Prof. Pawan Gupta, and Prof. Sanjeev Verma were also present.

Selected players in the men's category include:

Lourick Singh Sambyal (54 kg)
Vinayak Bhagat (58 kg)
Manav Singh (63 kg)
Ayush Mahajan (80 kg)
Manav Sharma (87 kg)
Imran Hashmi (over 87 kg)
Sumeet Kumar Balgotra, Ahsan Ahmed, and Manav Singh from GGM Science College

In the women's section, selected players include:

Komal (46 kg)
Vanshika (57 kg)
Ferzana Malik (67 kg) from GCW Gandhi Nagar
Anshika Gupta (49 kg)
Meenakshi Choudhary (53 kg)
Shriya Gupta (62 kg)
Anita Singh, Kamya Poomsae (SPMR College)
Kashifa Latif Poomsae (GCW Gandhi Nagar)

The trials were officiated by Komal Dhiman, Kamaljeet Bhogal, Rovain Gill, and Shambhavi Nagar.

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victorious in the in the Women's t (2024-25), orga- V Gandhi Nagar. rincipal of GCW kshi, Director of Honor.
ted Govt. SPMR standing perfor- rma, and Akhil

ıphed over GGM

Science College, expressed confi- s of the Physical fficiated by Jas- ajal Saini. Sever- from GGM Sci-

ClearVision Challenge: Image & Video Dehazing Competition concludes at JUIT

EARLY TIMES REPORT

SOLAN, Oct 23: The Centre of Excellence in Artificial Intelligence for Education (CoE-AIE) at Jaypee University of Information Technology (JUIT) successfully organized the ClearVision Challenge: Image and Video Dehazing Competition from 23 September to 11 October 2024. The competition encouraged participants to create innovative dehazing solutions for images and videos.

Coordinated by faculty members Dr. Hari Singh, Dr. Vipal Sharma, Prof. Tirath Raj Singh, and Prof. Shruti Jain, along with M.Tech. students Kunal and Robinson, the event saw 14 teams from various academic levels participate. The evaluation took place on 11 October, followed by a prize distribution on 18 October.

Winners included:

First Place: Team NPCs (Second-year students: Saransh, Saarvi Nandini)

Participants gathering for a group photo during the program

Second Place: Om Vishal (Final-year student)

Third Place: Team Deep Fried Neurons (Third-year students: Ramandeep, Aditya)

Faculty coordinators encouraged participants to continue refining their projects and highlighted the potential of technology-driven solutions in image and video dehazing.

d entrepreneurship among students. He advised rsity's programmes must focus on providing ions to address the local challenges. He further versity to initiate requisite steps to start Undergrses in its main campus.
ity Council, which met under the chairmanship , accorded in-principle approval to various agenproposals including introduction of 4-year Innors Programme in "Design Your Degree" (DYD); tutes governing Undergraduate Programmes as

summer capital of Jammu and Kashmir during this period of season. The maximum temperature was also 3.3 degree Celsius above normal of 21.9 degree Celsius recorded on Tuesday, the MeT office said.

'Ensure your presence at Jammu Civil Secretariat'