









Report On 3-Days National Level Symposium

On

"Applications of Image Processing Technique in the field of Electronics Communication and Civil Engineering"

Date: 06th to 08th November 2023

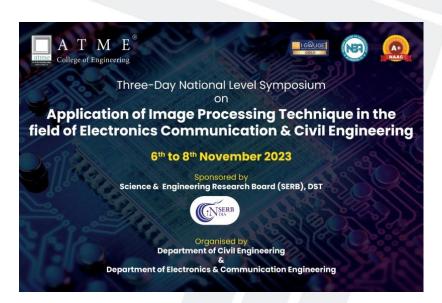
Sponsored by

Science and Engineering Research Board (SERB), Department of Science & Technology (DST), Govt. of India

Organized by

Department of Civil Engineering &

Department of Electronics & Communication Engineering



Convener

Mr. Puneeth K Assistant Professor Dept. of CE ATMECE, Mysuru

Co-Convener

Mr. Srivatsa H U Assistant Professor Dept. of CE ATMECE, Mysuru

Co-Convener

Mrs. Juslin F Assistant Professor Dept. of ECE ATMECE, Mysuru











Applications of Image Processing Technique in the field of Electronics and Communication and Civil Engineering"

Science and Engineering Research Board (SERB), Department of Science & Technology (DST), Govt. of India had approved to conduct 3-Day National Level Symposium On "Applications of Image Processing Technique in the field of Electronics Communication and Civil Engineering" from 6th to 8th November 2023 organized at ATME College of Engineering, Mysuru.

ABOUT SERB

The Science and Engineering Research Board (SERB) is a statutory body established through an Act of Parliament. Supporting basic research in emerging areas of Science & Engineering are the primary and distinctive mandate of the Board. The Board structure, with both financial and administrative powers vested in the Board, would enable quicker decisions on research issues, greatly improving thereby our responsiveness to the genuine needs of the research scientists and the S&T system. Promoting basic research in Science and Engineering and to provide financial assistance to persons engaged in such research, academic institutions, research and development laboratories, industrial concerns and other agencies for such research and for matters connected there with or incidental there to are the primary and distinctive mandate of the Board.

ABOUT SYMPOSIUM

Image processing involves transforming an image into a digital form and performing certain operations to get useful information from it. When applying certain pre-determined signal processing methods, the image processing system usually treats all images as 2D signals. The objective of the 3-day symposium is to educate the audience about the importance of Image processing techniques in the fields of Electronics communication and Civil Engineering, and also about the recent advancements in the usage of Image Processing technique in the field of Engineering.

Event Participants: The event saw a registration count of 220 candidates, comprising participants from both the hosting institute and other educational institutions. Of these registrants, 187 students and 37 faculty members actively attended the three-day event.















Dr. Dwarakish G S Professor. NITK Surathkal



Assistant Professor, IIT Guwahati



Dr. Vivek Padmanabha Dr. Anitha Raghavendra Specialist Learning, Infosys

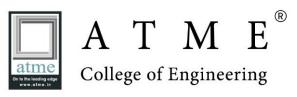
Three-Day National Level Symposium

Application of Image Processing Technique in the field of **Electronics Communication & Civil Engineering**

6th to 8th November 2023

Sponsored by Science & Engineering Research Board (SERB), DST













Day 1: 06th November 2023

Inauguration of the Symposium:

ATME College of Engineering had organised Inaugural Ceremony of Three Days National Level Symposium on "Application of Image Processing Technique in the field of Electronics Communication and Civil Engineering" on 6thNovember 2023, Sponsored by SERB, DST in the college Auditorium.

Dr. Srikanth T, Program Manager, Embedded systems, L&T Services was the Chief Guest. Keynote Speaker Dr. Dwarakish G S, Professor, NITK Surathkal graced the Inaugural ceremony. The ceremony was presided over by Dr. A K Murthy, Principal, ATMECE. Dr.Basavaraj L, IQAC Director and Dr. Bhagyashree S R, Dean Research, Dr. Govinde Gowda M S, Dean Academics, Prof. Manu Vijay, HoD, Dept. of Civil Engineering and Prof. Puneeth K, Convener, Asst Prof., Dept. of Civil Engineering was present during the Inaugural ceremony.













During the Inauguration ceremony, the keynote speaker emphasized the significance of Image Processing techniques in both Electronics Communication and Civil Engineering. They highlighted their specific contributions to these fields and discussed the transformative potential of this technology. Additionally, the speaker provided guidance on how young minds can adapt to the rapid evolution of technology in Engineering & Technology domains, encouraging them to embrace continuous learning and innovation.





The Chief Guest and the session speaker both were felicitated for their immense contribution in the field of academics & Research.

Inaugural Ceremony Link:

https://www.youtube.com/live/GR5kVc5lHEg?si=LIZ-6zg9iE0TpEVv











Day 1: 06.11.2023

Morning Session: Talk on Importance of Image Processing and its application in the field of Coastal Engineering by Dr. Dwarakish, Professor, NITK Surathkal

The guest speaker highlighted the pivotal role of Image Processing in Coastal Engineering during their presentation, emphasizing its invaluable tools for analyzing, predicting, and managing coastal areas. They underscored its capability to process extensive visual data collected from diverse sources like satellite imagery, drones, and remote sensing devices.



Moreover, the speaker elucidated how Image Processing assists in identifying changes in coastlines, erosion patterns, and sediment movement. This functionality empowers engineers to make informed decisions concerning coastal infrastructure development, erosion control strategies, and efforts towards environmental conservation. By interpreting data derived from images, Coastal Engineers gain the ability to assess the impacts of natural occurrences such as storms, tides, and sea level rise.

















Post session on spot quiz was conducted by Dr. Dwarakish, Professor, NITK Surathkal and winners were awarded with prizes











Day 1: 06.11.2023

Afternoon Session: Technical quiz and poster presentation competition was organised for the participants of Civil Engineering Department. Mrs. Bharathi B, Mrs Akhila C G & Mr. Rudresh A N, Assistant Professors from Dept. of CV Coordinated Quiz event. Dr. Suneeth Kumar S M and Dr. Seshadri N Sekhar, Professors from Dept. of ECE were the Jury members for the poster presentation Competition. Mr. Shashank P and Mrs. Shruthi H G, Assistant Professors from Dept. of CV, Coordinated the poster presentation Competition.



Technical quiz was organized for the participants of Civil Engineering Department



Poster presentation was organized to the participants of Civil Engineering Department











Day 2: 07.11.2023

Morning Session: On 2ndDay of National Level Symposium sponsored by SERB, DST, the keynote address was delivered by Dr. Anitha Raghavendra, Specialist Learning, Infosys on the topic of "Applications of Image processing Techniques".

She addressed the gathering, stating that Image Processing holds significant advantages and exhibits immense potential as a powerful tool. This is due to the resulting digitized, two-dimensional array format that can be freely processed to extract information about the size, shape, and location of objects pertinent to professionals in construction management. Additionally, she highlighted that Image Processing has been extensively and successfully employed across various sub-areas of civil engineering. These applications include engineering document scanning, pavement distress assessment, site evaluation through satellite imagery, studies involving crack propagation and microstructure analysis in cement-based materials, and assessment of soil fabric, among others.















Day 2: 07.11.2023 (Afternoon Session)

Technical quiz and poster presentation competition was organised for the participants of Electronics & Communication Engineering Department. Mr. Pradeepkumar Y, Ms Anupama Shetter and Mrs. Keerthi A Kumbar, Assistant Professors from Dept. of ECE Coordinated Quiz event. Dr. Prakash Kuravatti and Dr. Prathiba M K, Associate professors from Dept. of ECE were the Jury members for the poster presentation Competition. Mr. Manjunath K and Mrs. Chethana K S, Assistant Professors from Dept. of ECE, Coordinated the poster presentation Competition.





Technical quiz was organized for the participants of Electronics & Communication Engineering

Department





Poster presentation was organized to the participants of Electronics & Communication Engineering Department











Day 3: 08.11.2023

Morning Session:

On 3rd Day of National Level Symposium the keynote address was delivered by Dr. Vivek Padmanabha, Asst Professor, IIT Guwahati on the topic of "Harnessing DIP in the Advancement of Civil Engineering".

In his address to the audience, he highlighted how the adoption of Digital Image Processing (DIP) represents a significant leap forward in Civil Engineering, fundamentally altering the approach to visual data analysis, interpretation, and utilization. DIP encompasses a robust set of tools and methodologies empowering engineers to extract invaluable insights from images, facilitating precise evaluations of structural integrity, material characteristics, and environmental factors. Its scope extends across critical domains such as infrastructure monitoring, crack identification, terrain assessment, and construction quality assurance. Through the utilization of DIP techniques, Civil Engineers can refine decision-making processes, streamline project management practices, and ultimately contribute to the development of safer, more durable, and ecologically mindful built environments.













DAY 3: 08.11.2023

Post Keynote session valedictory function was held during which certificates were distributed to the winners and runners of quiz and poster presentation competition and feedback from participants were taken.

The valedictory ceremony was presided over by Dr. A K Murthy, Principal, ATMECE, Dr. Basavaraj L, IQAC Director, Dr. Govinde Gowda M S, Dean Academics, Prof. Manu Vijay, HOD Dept. Of Civil Engineering were present during the ceremony.













WINNERS & RUNNERS LIST OF VARIOUS EVENTS

Department of Civil Engineering

Sl. No	Participant Name	College Name	Name of the Competition	Place Secured
1	Pradeep B K	Maharaja Institute of Technology, Mysuru	Quiz	I
	Mahadeshwara Nayak			
2	Dhatchayani	Govt. Engineering College, Kushalnagara		II
	Akash M V			
3	Nishal N	Maharaja Institute of Technology, Mysuru	Poster Presentation	I
	Preetham S V			
4	Gagan S	Maharaja Institute of Technology, Tandavapura		II
	Rekha S			11

Department of Electronics & Communication Engineering

Sl. No	Participant Name	College Name	Name of the Competition	Place Secured
1	Kiran Kumar K	ATME College of Engineering, Mysuru	Quiz	I
	Basavaraju K			1
2	Nooralesh C B	ATME College of Engineering, Mysuru		п
3	Apeksha M	GSSS Institute & Technology for Women, Mysuru	Poster Presentation	
	Harshi Fathima			I
	Farya Sabha			
	Aishwarya M			
4	Veepthi M A	ATME College of Engineering, Mysuru		II
	Supriya H R			11















Certificates and cash prize were distributed to the winners and Runners of Quiz and poster presentation competition















Feedback provided by students during Valedictory Ceremony













Event Brochure distributed to all Educational Institutions ahead of the event











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ರಾಷ್ಟ್ರಮಟ್ಟದ ವಿಚಾರಸಂಕಿರಣಕ್ಕೆ ಚಾಲನೆ



ಮೈಸೂರು: ಪ್ರಸ್ತುತ ಇಮೇಜ್ ಪ್ರೊಸೆಸ್ಸಿಂಗ್ ತಂತ್ರಜ್ಞಾನವು ಆಟೋಮೊಬೈಲ್ ಕ್ಷೇತ್ರ ಸೇರಿದಂತೆ ವಿದ್ಯುನ್ಹಾನ ಮತ್ತು ಸಂವಹನ, ಸಿವಿಲ್ ವಿಭಾಗಗಳಲ್ಲಿ ಅಲ್ಲದೆ ಇತರೆ ಕ್ಷೇತ್ರ ಗಳಲ್ಲಿಯೂ ತ್ವರಿತವಾಗಿ ಬಳಕೆಯಾಗುತ್ತಿದ್ದು, ಈ ಕುರಿತು ಹೆಚ್ಚಿನ ಸಂಶೋಧನೆ ನಡೆಸುವ ಬಗ್ಗೆ ತಾಂತ್ರಿಕ ವಿಭಾಗದ ವಿದ್ಯಾರ್ಥಿಗಳು ಒತ್ತು ನೀಡಬೇಕು ಎಂದು ಎಲ್ ಅಂಡ್ ಟಿ ಟೆಕ್ನಾಲಜಿ ಸರ್ವೀಸಸ್ನ ಕಾರ್ಯಕ್ರಮ ವ್ಯವಸ್ಥಾಪಕ ಡಾ.ಟಿ.ಶ್ರೀಕಾಂತ್ ತಿಳಿಸಿದರು.

ನಗರದ ಬನ್ನೂರು ರಸ್ತೆಯಲ್ಲಿರುವ ಎಟಿಎಂಇ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಸಂಶೋಧನಾ ಮಂಡಳಿ ಸಹಯೋಗದಲ್ಲಿ ಆಯೋಜಿಸಿದ್ದ 'ಅಪ್ಲಿಕೇಷನ್ ಆಫ್ ಇಮೇಜ್ ಪ್ರೊಸೆಸಿಂಗ್ ಟೆಕ್ಷಿಕ್ ಇನ್ ದಿ ಫೀಲ್ಡ್ ಆಫ್ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್-ಕಮ್ಯೂನಿಕೇಶನ್ ಅಂಡ್ ಸಿವಿಲ್ ಇಂಜಿನಿಯರಿಂಗ್' ವಿಷಯ ಕುರಿತ ಮೂರು ದಿನಗಳ ರಾಷ್ಟ್ರಮಟ್ಟದ ವಿಚಾರಸಂಕಿರಣವನ್ನು ಉದ್ಘಾಟಿಸಿ ಅವರು ಮಾತನಾಡಿದರು.

ಕಾಲೇಜು ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಎ.ಕೆ. ಮೂರ್ತಿ ಕಾರ್ಯಕ್ರಮದ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಿದ್ದರು.

ಸೂರತ್ತಲ್ ಎಎ್ಐಟಿಕೆ ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕ ಡಾ.ದ್ರಾರಕೀಶ್, ಡಾ.ವಿವೇಕ್ ಪದ್ದನಾಭ, ಐಐಟಿ ಗುವಾಹಟಿ ಮತ್ತು ಇನ್ಫ್ರಾಸಿಸ್ನ ವಿಶೇಷ ಅಧ್ಯಯನ ವಿಭಾಗದ ಡಾ.ಅನಿತಾ ಐಕ್ಯೂಎಸಿ ನಿರ್ದೇಶಕ ಡಾ.ಎಲ್. ಬಸವರಾಜ್, ಡೀನ್ ಡಾ.ಎಸ್.ಆರ್. ಭಾಗ್ಯಶ್ರೀ, ಡಾ.ಎಂ.ಎಸ್.ಗೋವಿಂದೇಗೌಡ, ಡಾ.ಎಲ್.ಯತೀಶ, ಪ್ರೊ.ಮನು ವಿಜಯ್, ಮುಖ್ಯ ಸಂಯೋಜಕರಾದ ಪ್ರೊ.ಪಿ.ಪುನೀತ್, ಪ್ರೊ.ಶ್ರೀವತ್ರ ಪ್ರೊ.ಜಸ್ಲೀನ್ ಇತರರು ಹಾಜರಿದ್ದರು.

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The Inauguration ceremony featured in the local newspaper "ANDOLANA"