

**INTERNATIONAL CONFERENCE on
RECENT TRENDS IN COMPUTER SCIENCE, TECHNOLOGY,
DATA SCIENCE AND APPLICATIONS**

ICRTCTDA-2025

**7th February
2025**



Organized by

**Department of Computer Science,
Department of Computer Applications,
Department of Information Technology,
Department of Data Science &
Department of Mathematics**

**VIDYASAGAR COLLEGE OF ARTS AND SCIENCE
in association with**

SRI AANDAL EDUCATIONAL TRUST



Proceedings of the
***International Conference on Recent Trends in Computer Science,
Technology, Data Science, and Applications (ICRTCTDA-2025)***



Date: 7th February, 2025

Venue: Vidyasagar College of Arts and Science, Udumalpet

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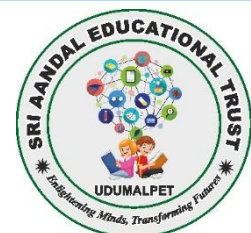
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Message from Secretary...

Significant changes are taking place in education which makes it necessary for every one to engage with each other and challenge existing assumptions. The educators understand that learning is a personal journey and that deep learning requires a conceptual framework, along with the child's positive belief in his or her own ability to learn. The learners always learn to learn. Let the learners to show their ideas in an innovative manner practically; and to exhibit their research knowledge and wisdom for social upliftment.

The theme for the International Conference on Recent Trends in Computer Science, Technology, Data Science And Applications ICRTCTDA-2025 opens up so many of our youngsters Ideas and new thoughts on Advanced Computing Techniques. I hope that, ICRTCTDA-2025 makes a platform for all the Students, Researchers, and Academicians to share their ideas and thoughts in emerging and advanced trends. The effort put by the Department of Computer Science, Computer Applications, Information Technology, Data Science, Mathematics and Sri Aandal Educational Trust is highly appreciable. Further, I assure that this conference will be helpful for individual learners.

I wish all the organizers to conduct the International Conference ICRTCTDA-2025 in a flourishing mode.

Smt. PADMAVATHY SATHYANATHAN

Secretary



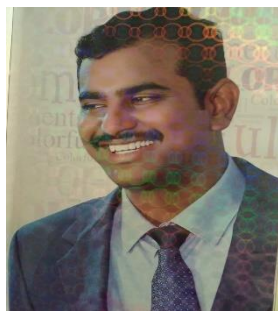
Message from Principal's Desk.....

Over the Years, dramatic improvements have been made in the field of Computer Science and Communications; enormous innovations are occurred in the computing technologies. The most promising research directions and impacts such as innovation might have on society. The theme of this International Conference on Recent Trends in Computer Science, Technology, Data Science And Applications ICRTCTDA-2025 reflects the emerging needs and advancement in computing. I anticipate that the conference will supply a widespread forum for exchange of ideas on theoretical concepts and practical solutions in recent research trends in advanced computing.

I assure that the outcome of the conference would be very beneficial to the students and help the staff members pursue further research activities in this field; it creates an environment to the Research Scholars and Academicians to share their ideas.

I congratulate the organizers of the International Level Conference on Recent Trends in Computer Science, Technology, Data Science and Applications ICRTCTDA-2025 and Sri Aandal Educational Trust who have dedicated themselves in the task of organizing the conference.

Dr.T.JAYAKUMAR
Principal



Message from Sri Aandal Educational Trust...

Sri Aandal Educational Trust is deeply committed to fostering innovation, promoting research excellence, and empowering individuals to achieve their fullest potential. Our Trust has been a catalyst in driving impactful change through our extensive research consultancy services, R&D initiatives, and government-sponsored skill development programs aimed at equipping youth with employable skills.

Through programs like free tailoring and beautician courses for women, we are dedicated to creating opportunities for economic independence and supporting women in becoming successful entrepreneurs. Our vision is to uplift society by nurturing talent, inspiring creativity, and enabling individuals to transform their aspirations into reality.

As part of our continuous efforts, the International Conference on Recent Trends in Computer Science, Technology, Data Science, and Applications (ICRTCTDA-2025) exemplifies our commitment to providing a platform for students, researchers, and academicians to collaborate, innovate, and contribute to the betterment of society. This conference embodies the essence of our mission to inspire young minds and ignite the spirit of innovation.

We extend our heartfelt gratitude to all participants, presenters, and collaborators who have made this initiative possible. Together, let us continue to build a future where education, research, and entrepreneurship pave the way for progress and prosperity.

Sri Aandal Educational Trust



Message from Convenor...

Department of Computer Science, Computer Applications, Information Technology, Data Science, Mathematics in association with Sri Aandal Educational Trust jointly organize International Conference on Recent Trends in Computer Science, Technology, Data Science and Applications ICRTCTDA-2025.

The objective of the conference is to bring Researchers, Academicians and Industrialists under a single roof and to share their ideas, new findings and innovations in the Recent trends. We assure that the conference will make a positive impact among the young and energetic researchers.

At this juncture, we take an opportunity to acknowledge our thanks to our honorable Secretary Smt. Padmavathy Sathiyathan, Trustee Mr. Vikram Sathyanathan, Most respectable Principal Dr.T.Jayakumar, who granted permission to conduct the International Conference.

I render my heartfelt gratitude to Co-Convenors, Chief Co-ordinator, Co-ordinators and Chairmen and member from Sri Aandal Educational Trust. Our sincere thanks to all the Paper Presenters, Participants who contributed their innovative ideas in this conference.

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EXPLORING THE SYNERGY OF COGNITIVE AND EMOTIONAL INTELLIGENCE IN ENHANCING STUDENT LEARNING

Dr. R. Nandhakumar, Assistant Professor & Head, Department of Computer Science,

NGM College, Tamilnadu, India. E-Mail: nandhakumar@ngmc.org

Abstract

This study explores the intersection of cognitive and emotional intelligence and its impact on student learning outcomes. Cognitive intelligence, encompassing analytical and problem-solving skills, forms the foundation of academic success, while emotional intelligence, including self-awareness, empathy, and interpersonal skills, significantly influences motivation, resilience, and collaboration. By integrating these two domains, students can achieve holistic learning experiences that foster both intellectual and emotional growth. This research examines how emotional intelligence can enhance cognitive processes such as memory, attention, and critical thinking, creating a synergistic effect that improves overall academic performance. It also highlights practical strategies for educators to cultivate emotional intelligence in classrooms, such as mindfulness training, emotional regulation techniques, and collaborative learning activities. The findings suggest that emphasizing emotional intelligence alongside traditional cognitive skills equips students with the tools to navigate academic challenges effectively, promoting lifelong learning and personal development in an increasingly complex world.

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Hybrid Deep Learning models for Brain Tumor Detection and Severity Assessment

Jiji K, Research Scholar, Department of Computer Science, CMS College of Science and Commerce,

Chinnavadampatti. gigiresearch75@gmail.com

Dr A Nithya Rani, Associate Professor, Department of Computer Science, CMS College of Science and Commerce, Chinnavadampatti. nithyarani.a@gmail.com