

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

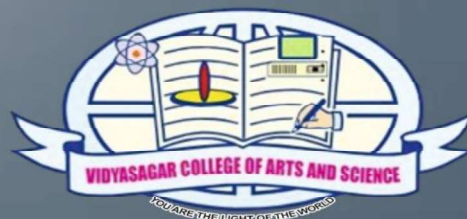
ICRTCSATDSM - 2026

**27th February
2026**



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

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Proceedings of the

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Date: 27th February, 2026

Venue: Vidyasagar College of Arts and Science, Udumalpet

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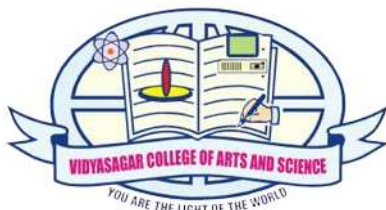
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governance platforms, and agricultural information systems in rural contexts. Our research synthesizes case studies from developing regions where computer applications have facilitated precision farming, telemedicine services, digital financial inclusion, and enhanced market linkages for rural producers. We explore both the opportunities and barriers to technology adoption, including infrastructure limitations, digital literacy gaps, and socio-economic constraints. The study employs a mixed-methods approach, combining quantitative data on technology penetration with qualitative insights from stakeholder interviews. Key findings reveal that context-appropriate computer applications, when coupled with capacity building and supportive policy frameworks, significantly enhance rural livelihoods, improve access to essential services, and strengthen community resilience. However, sustainability requires addressing the digital divide through affordable connectivity, localized content, and participatory design approaches. This paper contributes to understanding how computer applications can be effectively leveraged as catalysts for equitable rural development and offers recommendations for policymakers, development practitioners, and technology developers.

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BRIDGING MIND AND EMOTION: ENHANCING STUDENT LEARNING THROUGH COGNITIVE AND EMOTIONAL INTELLIGENCE

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Abstract

This study examines the interrelated nature of cognitive and emotional intelligence and their combined influence on student learning outcomes. Cognitive intelligence plays a crucial role in developing critical thinking and problem-solving abilities, whereas emotional intelligence supports essential life skills such as self-awareness, empathy, and effective interpersonal communication. Adopting a mixed-methods approach, the research utilized surveys and observational studies involving both students and educators. Standardized instruments were used to assess levels of cognitive and emotional intelligence. Findings indicate a strong correlation between the two, demonstrating their collective contribution to academic achievement and social adaptability. The study underscores the significance of integrating cognitive and emotional intelligence within educational frameworks. Such integration enables educators to foster holistic student development, equipping learners with the skills needed to meet the demands of an increasingly complex world.