



ICCET 2026

PROCEEDINGS OF

**14th International Conference on Contemporary
Engineering and Technology 2026**

22nd & 23rd March 2026 / Chennai, India

ISBN: 978 81 986418 1 6



9 788198 641816

**14th INTERNATIONAL CONFERENCE ON
CONTEMPORARY ENGINEERING AND TECHNOLOGY
(ICCET – 2026)**

March 22nd – 23rd, 2026

ORGANIZED BY

**ORGANIZATION OF SCIENCE AND INNOVATIVE
ENGINEERING & TECHNOLOGY (OSIET).**

Chennai, India.

Website: www.ijsiet.org.in

In Association with

**PRINCE SHRI VENKATESHWARA PADMAVATHY
ENGINEERING COLLEGE**

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Medavakkam - Mambakkam Road, Ponmar, Chennai – 600 127

Website: www.psvpec.in | www.princedrkvvasudevan.com

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1627.SLE-HY MIXNET: HYBRID CONVOLUTIONAL–TRANSFORMER ARCHITECTURE WITH CORAL ORDINAL LEARNING FOR SYSTEMIC LUPUS ERYTHEMATOSUS SEVERITY PREDICTION

Jayashree. J 1

Research Scholar

Department of Computer Science

Vels Institute of Science, Technology & Advanced Studies, Chennai, Tamil Nadu India.

Dr.Sree kala.T 2

Professor

Department of Advanced computing and Analytics,

Vels Institute of Science, Technology & Advanced Studies, Chennai, India.

Systemic lupus erythematosus (SLE) is a chronic autoimmune disorder that may range from mild to severe, affecting several organs and causing extensive inflammation. Depending on the patients disease activity level, immunosuppressive regimen selection, monitoring frequency, and treatment intensity are all dictated by an accurate severity classification. Manually interpreting various clinical and laboratory signs is a time-consuming, subjective, and potentially variable approach that is used in conventional SLE Disease Activity Index (SLEDAI) severity assessments. Plus, most of the current computational approaches use basic machine learning classifiers that dont take into account the natural development of severity in SLE and instead consider the levels as separate groups. This highlights the need of developing a deep learning system that is automated, objective, and ordinal-aware in order to reliably predict the severity of diseases using common clinical biomarkers. We developed a new hybrid deep learning architecture called SLE-HyMixNet to estimate the ordinal severity of SLE from numerical clinical data in order to overcome these difficulties. A combination of 1D Convolutional Neural Networks (1D-CNNs) and Transformer encoders is what the suggested framework, SLE-HyMixNet, is all about. If we compare our suggested strategy to other current ones, we find that it outperforms them all with an overall accuracy of 99.25 percent.

1628.EMAIL ASSISTANT AGENT

Yesu Sekharam Manuri

(First Author)

Assistant Professor, Department of AIML

Sri Vasavi Engineering College(A), Pedatadepalli, Tadepalligudem, West Godavari, A.P, India-534101.

Dream Sri Venkata Thanmai Kotha

(Corresponding Author)