International Conference on Smart Systems and Wireless Communication (SSWC-2026)

Organized by

Dept. of Information Technology

Venue: JIS College of Engineering, Kalyani, West Bengal, India

November 27-28, 2026

Program Schedule

November 27, 2026 [Friday]	
09:00 - 10:00	**Registration and High Tea**
INAUGURAL SESSION: [DR. B.C.ROY AUDITORIUM] [10:00-11:05]	
10:00 -- 10:05	Lighting of Lamp and Saraswati Vandana
10:05 – 10:10	Welcome Address by **Prof. (Dr.) Partha Sarkar** –Principal, JIS College of Engineering
10:10 – 10:15	Address by **Sardar Taranjit Singh**, Hon'ble Managing Director, JIS Group
10:15 – 10:20	Address by **Mr. Simarpreet Singh**, Director, JIS Group
10:20 – 10:25	Thematic Address, **Prof. Rituparna Chaki**, University of Calcutta, General Chair-SSWC 2026
10:25 – 10:30	Address by **Prof. Agostino Cortesi**, Ca' Foscari University of Venice, Italy, General Chair-SSWC 2026
10:30 – 10:35	Address by **Prof. Niraj Saxena**, Pro-Chancellor, JIS University, Former Adviser, AICTE
10:35 – 10:40	Address by **Dr. Soumyabrata Saha**, Dean Academics, JIS College of Engineering, Convenor, SSWC2026
10:40 – 10:45	Address by **Dr. Moumita Pal**, IQAC Director, JIS College of Engineering
10:45 – 10:50	Address by **Dr. Suparna Dasgupta**, HoD IT-CA, JIS College of Engineering, Convenor, SSWC2026
10:50 – 11:00	Address by **Dr. Tapas Chakraborty**, Vice Chancellor,Maulana Abul Kalam Azad University of Technology (MAKAUT), Chief Guest, SSWC2026
11:00 – 11:05	Vote of Thanks by **Dr. Debashis Sanki,** Register, JIS College of Engineering
KEYNOTE ADDRESS	
11:15 – 11:45	**Keynote Address-I** **Prof. Dipti Prasad Mukherjee,** Professor (HAG), Electronics and Communication Sciences Unit (ECSU), Computer and Communication Sciences Division (CCSD), Indian Statistical Institute, Kolkata
11:45 – 12:15	**Keynote Address-II** **Prof. Agostino CORTESI**, Ca' Foscari University of Venice, Italy, General Chair-SSWC 2026
12:15 – 12:45	**Keynote Address-III** **Prof. Nabendu Chaki,** University of Calcutta
12:45 – 13:15	**Keynote Address-IV** **Prof. Sankhayan Chowdhury,** University of Calcutta

13:15 – 14:00	**Networking Lunch**
TECHNICAL SESSION	
Technical Session-IA: Deep Learning and NLP (Seminar Room-I)	
14:05-15:35	Deep Learning-Based Multi-Disease Prediction from Electronic Health Records [SSWC:39]
	Hybrid Attention-Based NLP Model for Multi-Domain Sentiment Analysis [SSWC:46]
	CBAM-OctConvNet: An Attention based Octave Convolution Neural Network for crop disease recognition [SSWC:80]
	Word Presence Prediction for Indian Sign Language Translation [SSWC:118]
	Automated Representation Learning for Vehicle CO2 Emission Prediction: A Deep Interleaved CNN-GRU Approach [SSWC:146]
	Prompt-Based Medical RAG System [SSWC:177]
Technical Session-IB: Machine Learning and Applications (Seminar Room - II)	
14:05-15:35	Multi-Class Retinal Diseases Detection Using Deep CNN with Minimal Memory Consumption [SSWC:30]
	Secure Multimodal Federated Learning for Uncertainty-Aware and Interpretable Clinical Decision Support [SSWC:37]
	An Enhanced Hybrid Parrot Optimization Framework with Multi-Covariance Operator for Air Quality Forecasting [SSWC:87]
	An Approach to Topic Classification through Video Captioning [SSWC: 106]
	Machine Learning Based Rice Yield Prediction Using Integrated Soil, Weather, and Agronomic Factors [SSWC: 138]
	Parkinson's Disease Detection Using Machine Learning: A Voice-Based Approach with Dimensionality Reduction and Hyperparameter Optimization [SSWC:152]
Technical Session-IC: Machine Learning and Applications (Seminar Room- III)	
14:05-15:35	AI and Soft Computing-Based Intelligent Bone Marrow Cancer Diagnosis [SSWC:163]
	Entropy Guided MobileViT-Based Fermatean Fuzzy Switching Framework for High Density Impulse Noise Removal [SSWC:164]
	TokenLens: An AI-Powered Multi-Source Framework for Real-Time Solana Token Risk Assessment [SSWC:165]
	Explainable Gender-Specific Machine Learning for Cardiovascular Disease Risk Prediction [SSWC:211]
	Automated Scissor Lift with Real-Time Wheelchair Detection using Machine Learning and IoT [SSWC:231]
	Improving Employee Flight Risk Prediction: Integrating Workforce Segmentation via Latent Profile Analysis with Machine Learning [SSWC:225]
Technical Session-ID: Image (Seminar Room - IV)	
14:05-15:35	NeuroPDE-Net: A PDE-Regularized ConvNeXt–ResNet Ensemble for Highly Robust Brain MRI Tumor Classification [SSWC:95]

	CNN-Agro: A Deep Learning Approach for Automated Plant Disease Detection [SSWC:114]
	SESH OS: A Distributed Network Operating System for Laptop-Fleet Resource Pooling and ML-Assisted Priority Scheduling [SSWC:144]
	Emotion-Based Music Recommendation System Using Context-Aware Vector Synthesis and KNN [SSWC:151]
	A Hybrid CNN and Transformer based Framework with Threshold Tuning for Glaucoma Detection using Fundus Images [SSWC:183]
	Lightweight MobileNetV2 Framework for Field-Based Crop Disease Identification [SSWC:187]
	A Comparative Study of Metadata Extraction and Storage Standards for Manuscripts [SSWC:228]
Technical Session-IE : Systems (Others) (Seminar Room - II)	
15:45 – 16:45	A Multi-Agent Framework for Cross-Jurisdiction Legal Conflict Detection Using Hybrid Retrieval-Augmented Generation [SSWC:171]
	ThreatFusion: Intelligent Framework for Adaptive Cyber Threat Detection [SSWC:172]
	Multi-Objective Optimization in Automated Guided Vehicles: A Categorized Review [SSWC:201]
	Facial Emotion-Based Music Recommendation System Using Convolutional Neural Network (CNN) [SSWC:215]
	A UAV-Based Framework For Plastic Waste Detection And Coverage Area Assessment in Large Water Bodies [SSWC:224]
18:00 – 20:30	**Dinner**
November 28, 2026 [Saturday]	
10:00 – 10:30	**Keynote Address-IV** **Prof. Valentina Janev,** Institute Mihailo Pupin, University of Belgrade, Serbia
10:30 – 11:00	**Keynote Address-V** **Mr. Snehasis Banerjee,** Head/PI, Physical AI, Sr. Scientist, TCS Research
Technical Session-IIA:Machine Learning and Applications (Seminar Room- I)	
11:45 – 13:30	AI-Powered Virtual Mouse Control Through Hand Gesture Recognition [SSWC:141]
	Explainable Failure Analysis in Multi-label Chest X-ray Classification Using DenseNet121 [SSWC:142]
	KidneyGuard: An Intelligent Multi-Layer Framework for Early-Stage CKD Prediction [SSWC:223]
	Zero Hunger: A Food Sharing Intelligent Platform to Distribute Surplus Food to Care Homes [SSWC:208]
	WildGuard AI: A Machine Learning-Powered Conservation Platform for Predictive Wildlife Population Analysis and Risk Assessment [SSWC:181]
	Laptop Price Prediction Framework using Machine-Learning [SSWC:227]
	A Multimodal AI Framework for Treatment Response in Prostate Cancer Prediction SSWC:82]
Technical Session-IIB: Security Solutions (Seminar Room - II)	

11:45 – 13:15	Federated Deep Learning for Real-Time IoT Anomaly Detection [SSWC:52]
	Privacy-Aware Electronic Health Record Management Through Blockchain [SSWC:117]
	Usability Perspective of the Ethereum Platform in Blockchain Technology: A Focus on UI Design [SSWC:137]
	The Variational Active Inference Continuum: A Free-Energy Minimisation Framework for Perimeter-to-Edge Cyber Defence [SSWC:196]
	A Scalable Machine Learning and Deep Learning Based Network Intrusion Detection System [SSWC:212]
	LandLedger: Blockchain-Powered Transparency in Land Ownership(L-BPTLO) [SSWC:226]
Technical Session-IIC: Deep Learning and NLP & Smart Systems (Seminar Room- III)	
11:45 – 13:30	XFed-PCOS: Privacy-Preserving Multimodal PCOS Diagnosis Using Federated CNN–Transformer Learning [SSWC:159]
	An Explainable Hybrid Feature-Driven Autoencoder Fused Framework for Mineral Image Classification [SSWC:180]
	Multimodal Brain Tumor Detection from Paired CT-MRI Using Lightweight Attention and Contrast-Aware Pooling [SSWC:195]
	A Hybrid Nano-Sensor Enabled WBAN Architecture for Energy-Efficient and Secure Biomedical Monitoring [SSWC:179]
	A Hierarchical Predictive Framework for Dynamic Urban Traffic Management During Disruptions [SSWC:221]
	SmartPulse: IoT-Based Deep Learning for Real-Time Heart Monitoring [SSWC:219]
13:30 – 14:30	**Lunch Break**
15.00 - 16.00	Valedictory Session with Vote of Thanks