



GREENSOFT GROUPS

SOFTWARE PROJECT LIST 2025-26

IEEE TRANSACTIONS ON ARTIFICIAL INTELLIGENCE

GS AI 01	Large-Scale Heliostat Field Optimization for Solar Power Tower System Using Matrix-Based Differential Evolution	Sep- 2025
GS AI 02	Unimodal Distributions for Ordinal Regression	Sep- 2025
GS AI 03	SAWL-Net: A Statistical Attentions and Wavelet Aided Lightweight Network for Classification of Cancers in Histopathological Images	Aug-2025
GS AI 04	AI-Generated Versus Human Text: Introducing a New Dataset for Benchmarking and Analysis	Aug-2025
GS AI 05	Generative Adversarial Networks for Dynamic Malware Behavior: A Comprehensive Review, Categorization, and Analysis	Aug-2025
GS AI 06	Cyber Shadows: Neutralizing Security Threats with AI and Targeted Policy Measures	July-2025
GS AI 07	AttDCT: Attention-Based Deep Learning Approach for Time Series Classification in the DCT Domain	June-2025
GS AI 08	COLT: Cyclic Overlapping Lottery Tickets for Faster Pruning of Convolutional Neural Networks	June-2025
GS AI 09	Revisiting LARS for Large Batch Training Generalization of Neural Networks	May-2025
GS AI 10	Improved Event-Triggered Adaptive Neural Network Control for Multi-agent Systems Under Denial-of-Service Attacks	May-2025
GS AI 11	Secure Synchronization Control of Markovian Jump Neural Networks under DoS Attacks with Memory-Based Adaptive Event-Triggered Mechanism	May-2025

IEEE TRANSACTIONS ON BIGDATA

GS BD 1	MultiTec: A Data-Driven Multimodal Short Video Detection Framework for Healthcare Misinformation on TikTok	Oct-2025
GS BD 2	Comprehensive Architecture Search for Deep Graph Neural Networks	Oct-2025
GS BD 3	Optimal Subdata Selection for Prediction Based on the Distribution of the Covariates	Oct-2025
GS BD 4	Information Switching Patterns of Risk Communication in Social Media During Disasters	Aug-2025
GS BD 5	Online News-Based Economic Sentiment Index	June-2025
GS BD 6	Use of Transfer Learning for Affordable In-Context Fake Review Generation	June-2025
GS BD 7	Large Language Model-Informed ECG Dual Attention Network for Heart Failure Risk Prediction	Jun-2024

IEEE TRANSACTIONS ON PRIVACY AND COMPUTER SOCIETY

GS PCS 01	Web3-Based Privacy-Preserving and Incentive Threat Intelligence	July-2025
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Website: www.greensoftgroups.com, Mail ID: greensoftgroups@gmail.com



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	Sharing Mechanism With Non-False-Positive-Based Double Filter	
GS PCS 02	Interface Design to Support Informed Choices When Users Face Numerous Privacy Decisions	July-2025
GS PCS 03	Efficient Enforcement of Privacy Preferences for Human Digital Twins in Multi-User/Provider Scenarios	Mar-2025
GS PCS 04	Ensuring GDPR Compliance in IoT Network With a Glass Box Security Guard System	Mar-2025
GS PCS 05	Ensuring GDPR Compliance in IoT Network With a Glass Box Security Guard System	Jan-2025
GS PCS 06	Privacy-Preserving Hyper parameter Tuning for Federated Learning	Jan-2025

IEEE TRANSACTION ON MACHINE LEARNING

GS ML 01	Robust Defensive Cyber Agent for Multi-Adversary Defense	July-2025
GS ML 02	A2PC: Augmented Advantage Pointer-Critic Model for Low Latency on Mobile IoT With Edge Computing	July-2025
GS ML 03	A New Heterogeneous Hybrid Massive MIMO Receiver With an Intrinsic Ability of Removing Phase Ambiguity of DOA Estimation via Machine Learning	July-2025
GS ML 04	Semi-Supervised Learning via Cross-Prediction-Powered Inference for Wireless Systems	July-2025
GS ML 05	Deep Receiver Architectures for Robust MIMO Rate Splitting Multiple Access	July-2025
GS ML 06	Online Learning for Intelligent Thermal Management of Interference-Coupled and Passively Cooled Base Stations	July-2025
GS ML 07	Toward Understanding Federated Learning over Unreliable Networks	July-2025
GS ML 08	Robust and Lightweight Modeling of IoT Network Behaviors From Raw Traffic Packets	July-2025
GS ML 09	Multi-Agent Reinforcement Learning With Action Masking for UAV-Enabled Mobile Communications	July-2025
GS ML 10	Asynchronous Real-Time Federated Learning for Anomaly Detection in Microservice Cloud Applications	July-2025
GS ML 11	Convergence-Privacy-Fairness Trade-Off in Personalized Federated Learning	July-2025

IEEE TRANSACTION ON AFFECTIVE COMPUTING

GS AC 01	Analyzing the Visual Road Scene for Driver Stress Estimation	Sep-2025
GS AC 02	Application of Multimodal Self-Supervised Architectures for Daily Life Affect Recognition	Sep-2025
GS AC 03	DurFlex-EVC: Duration-Flexible Emotional Voice Conversion Leveraging Discrete Representations Without Text Alignment	Sep-2025
GS AC 04	EmoDialect: Leveraging Fuzzy Matching and Dialect-Emotion Mapping for Sentiment Analysis	Sep-2025
GS AC 05	Mouse-Cursor Tracking: Simple Scoring Algorithms That Make it Work	Sep-2025
GS AC 06	Nonverbal Leadership in Joint Full-Body Improvisation	Sep-2025
GS AC 07	Reading Moods by Mouse-Cursor Tracking: Representational Similarity Analysis	Sep-2025

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GS AC 08	RVISA: Reasoning and Verification for Implicit Sentiment Analysis	Sep-2025
GS AC 09	Differential Impacts of Monologue and Conversation on Speech Emotion Recognition	June-2025
GS AC 10	EDSA-Ensemble: An Event Detection Sentiment Analysis Ensemble Architecture	June-2025
GS AC 11	Contribution of EEG Signals for Students' Stress Detection	June-2025

IEEE TRANSACTION ON DEPENDABLE AND SECURE COMPUTING

GS NS 01	Efficient Use-After-Free Prevention with Pooling, OS-Assisted, and Opportunistic Page-Level Sweeping	Sep-Oct-2025
GS NS 02	Fed-GAN: Federated Generative Adversarial Network with Privacy-Preserving for Cross-Device Scenarios	Sep-Oct-2025
GS NS 03	Differential Area Analysis for Ransomware: Attacks, Countermeasures, and Limitations	Jul-Aug-2025
GS NS 04	Secure Optimizations on Ethereum Byte code Jump-Free Sequences	Jul-Aug-2025
GS NS 05	Biometric Identification Based on EEG Using Fuzzy Logic: A Novel Approach with Metaheuristic Optimization	Jul-Aug-2025
GS NS 06	Converting Fixed-Length Binary Strings Into Constant Weight Words: Application on Post-Quantum Cryptography	May-June-2025
GS NS 07	A Verifiable and Efficient Symmetric Searchable Encryption Scheme for Dynamic Dataset With Forward and Backward Privacy	May-June-2025
GS NS 08	Atomizing Firewall Policies for Anomaly Analysis and Resolution	May-June-2025
GS NS 09	A Novel Efficient Crash Consistency Solution Enabling Rollback Recovery for Secure NVM in Low-Power Energy Harvesting Systems	May-June-2025
GS NS 10	ProMark: Ensuring Transparency and Privacy-Awareness in Proximity Marketing Advertising Campaigns	May-June-2025
GS NS 11	Synthetic Data Generation via the Permutation Paradigm with Optional k-Anonymity	May-June-2025
GS NS 12	SHIELD - Secure Aggregation against Poisoning in Hierarchical Federated Learning	Mar-Apr-2025
GS NS 13	NeuroYara: Learning to Rank for Yara Rules Generation Through Deep Language Modeling and Discriminative N-Gram Encoding	Mar-Apr-2025
GS NS 14	Comprehensive Analysis of DDoS Anomaly Detection in Software-Defined Networks	Mar-Apr-2025
GS NS 15	Multi-Stage Adversarial Defense for Online DDoS Attack Detection System in IoT	Mar-Apr-2025
GS NS 16	Adaptive DDoS Attack Detection: Entropy-Based Model With Dynamic Threshold and Suspicious IP Reevaluation	Mar-Apr-2025
GS NS 17	F-OSFA: A Fog Level Generalizable Solution for Zero-Day DDOS Attacks Detection	Apr-2025
GS NS 18	Lightweight DDoS Attack Detection Using Bayesian Space-Time Correlation	Apr-2025
GS NS 19	Multi-Tier HetNets With Random DDoS Attacks: Service Probability and User	

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	Load Analysis	
GS NS 20	Ensuring Zero Trust Security in Consumer Internet of Things Using Federated Learning-Based Attack Detection Model	Apr-2025
GS NS 21		

IEEE TRANSACTION ON CLOUD COMPUTING

GS CC 01	Understanding the Security Risks of Websites Using Cloud Storage for Direct User File Uploads	Sep-2025
GS CC 02	Asynchronous Real-Time Federated Learning for Anomaly Detection in Microservice Cloud Applications	Sep-2025
GS CC 03	AERO: Adaptive Edge-Cloud Orchestration With a Sub-1K-Parameter Forecasting Model	Sep-2025
GS CC 04	AI-Powered System for an Efficient and Effective Cyber Incidents Detection and Response in Cloud Environments	Aug-2025
GS CC 05	AlogSCAN: A Self-Supervised Dual Network for Adaptive and Timely Log Anomaly Detection in Clouds	Aug-2025
GS CC 06	Asynchronous Real-Time Federated Learning for Anomaly Detection in Microservice Cloud Applications	Aug-2025
GS CC 07	Enhancing Cloud Security: A Multi-Factor Authentication and Adaptive Cryptography Approach Using Machine Learning Techniques	Aug-2025
GS CC 08	A Verifiable and Secure Industrial IoT Data Deduplication Scheme With Real-Time Data Integrity Checking in Fog-Assisted Cloud Environments	Feb-2025

IEEE TRANSACTIONS ON SERVICE COMPUTING (WEB SERVICES)

GS SC 01	AutoBDA: Model-Driven Reference Architecture for Automated Big Data Analysis Framework	May-June-2025
GS SC 02	KubeSPT: Stateful Pod Teleportation for Service Resilience With Live Migration	May-June-2025
GS SC 03	Proof of Random Leader: A Fast and Manipulation-Resistant Proof-of-Authority Consensus Algorithm for Permissioned Blockchains Using Verifiable Random Function	May-June-2025

IEEE TRANSACTION ON EMERGING TOPIC IN COMPUTING

GS ET 01	Software Aging Detection and Rejuvenation Assessment in Heterogeneous Virtual Networks	Apr-June-2025
GS ET 02	Cost-Effective Software Rejuvenation Combining Time-Based and Inspection-Based Policies	Apr-June-2025
GS ET 03	Investigating the Resilience Source of Classification Systems for Approximate Computing Techniques	Apr-June-2025
GS ET 04	FedRDF: A Robust and Dynamic Aggregation Function Against Poisoning Attacks in Federated Learning	Jan-Mar-2025
GS ET 05	Low-Power Real-Time Seizure Monitoring Using AI-Assisted Sonification of	Jan-Mar-

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	Neonatal EEG	2025
GS ET 06	Janus: A Trusted Execution Environment Approach for Attack Detection in Industrial Robot Controllers	Jan-Mar-2025
GS ET 07	Linearizing Binary Optimization Problems Using Variable Posets for Ising Machinespp. 250-	Jan-Mar-2025

IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING

GS DE 01	Stability of Machine Learning Predictive Features Under Limited Data	Sep-2025
GS DE 02	Top-K Representative Search for Comparative Tree Summarization	Aug-2025
GS DE 03	Scalable Transactional Stream Processing on Multicore Processors	July-2025
GS DE 04	FlexIM: Efficient and Verifiable Index Management in Blockchain	June-2025
GS DE 05	Finding Rule-Interpretable Non-Negative Data Representation	May-2025
GS DE 06	Style Feature Extraction Using Contrastive Conditioned Variational Autoencoders With Mutual Information Constraints	May-2025
GS DE 07	Adversarial Conservative Alternating Q-Learning for Credit Card Debt Collection	April-2025

IEEE TRANSACTIONS ON MOBILE COMPUTING

GS MC 01	SmartSpr: A Physics-Informed Mobile Sprinkler Scheduling System for Reducing Urban Particulate Matter Pollution	Sep-2025
GS MC 02	A CAV Cooperative Lane Change Protocol With CTH Safety Guarantee on Dedicated Highways	Sep-2025
GS MC 03	FPSelector: A Flexible Path Selector for Mobile Augmented Reality Offloading	Sep-2025
GS MC 04	Dynamic Hierarchical Reinforcement Learning Framework for Energy-Efficient 5G Base Stations in Urban Environments	Sep-2025
GS MC 05	FOOL: Addressing the Downlink Bottleneck in Satellite Computing With Neural Feature Compression	Aug-2025
GS MC 06	Multi-Task Model Personalization for Federated Supervised SVM in Heterogeneous Networks	Aug-2025
GS MC 07	Aeacus: QUIC-Powered Low-Latency and Strong-Consistency Name Resolution in 5G	July-2025
GS MC 08	Environment-Tolerant Trust Opportunity Routing Based on Reinforcement Learning for Internet of Underwater Things	July-2025
GS MC 09	Cost-Effective Edge Data Caching With Failure Tolerance and Popularity Awareness	June-2025

IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED COMPUTING

GS PDC 01	PipeMesh: Achieving Memory-Efficient Computation-Communication Overlap for Training Large Language Models	Sep-2025
GS PDC 02	Compositional Coordinated Resource Provisioning in Workflows With	Sep-2025

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	Stochastic Durations	
GS PDC 03	VAHRM: Variation-Aware Resource Management in Heterogeneous Supercomputing Systems	Aug-2025
GS PDC 04	Reinforcement Learning-Driven Adaptive Prefetch Aggressiveness Control for Enhanced Performance in Parallel System Architectures	July-2025
GS PDC 05	CausalConf: Datasize-Aware Configuration Auto-Tuning for Recurring Big Data Processing Jobs via Adaptive Causal Structure Learning	July-2025

IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY

GS IFS 01	Robust Image Hashing With Weighted Saliency Map and Laplacian Eigenmaps	Aug-2025
GS IFS 02	Learn ability of Optical Physical Unclonable Functions Through the Lens of Learning With Errors	Aug-2025
GS IFS 03	Efficient and Secure Post-Quantum Certificate less Signcryption With Linkability for IoMT	Aug-2025
GS IFS 04	Cross-Optical Property Image Translation for Face Anti-Spoofing: From Visible to Polarization	Aug-2025
GS IFS 05	FedGT: Identification of Malicious Clients in Federated Learning With Secure Aggregation	Aug-2025

IEEE TRANSACTION ON IOT

GS IOT 01	FedFleet: A Hierarchical Federated Learning Framework for Faster Convergence in Heterogeneous IoT Systems	Sep-2025
GS IOT 02	Continuous Authentication for Secure and Seamless User-Avatar Integration in Multidevice Metaverses	Sep-2025
GS IOT 03	IoT Rule Generation With Cross-View Contrastive Learning and Perplexity-Based Ranking	Sep-2025
GS IOT 04	Optimizing Predictive Maintenance in Industrial IoT Cloud Using Dragonfly Algorithm	Sep-2025
GS IOT 05	GNSS Spoofing Detection Based on Opportunistic Position Information	Sep-2025

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