

**Vol. 1 No. 1 (2023): Electronics, Communications, and Computing
Summit -Winter 2023**

Table of Content

S.No	ARTICLE TITLE	AUTHORS	Page
1	AI-Driven Cybersecurity Framework for Next-Gen Computing Applications and Critical Infrastructure	Pushplata Patel, Ashok PunjajiSalave	1 - 10
2	Real-Time Object Detection with Transformer-Based Model for Next-Gen Computing Applications	Jelena L. Holovati	11-19
3	Adaptive Resource Allocation in Cloud Data Centers: A Machine Learning-Driven Framework for Energy Efficiency and SLA Compliance	PrernaDusi, Dr.GauravTamrakar	20-28
4	Autonomous Robotic Systems using Reinforcement Learning for Next-Gen Computing Applications	Amany Gouda	29-38
5	Cloud-Native Microservices for Next-Gen Computing Applications and Scalable Architectures	F Rahman	39-48
6	Digital Twin Technology for Next-Gen Computing Applications and Smart Manufacturing	Mohammad Mirabi, Noel Unciano	49-58
7	Zero-Trust Architectures in Enterprise Networks: A Framework for Enhanced Cyber Resilience	CharpePrasanjeetPrabhakar	59-66
8	Explainable AI Models in Financial Risk Prediction: Bridging Accuracy and Interpretability in Modern Finance	Abd-El-Hamid Bensafi, SalihUsun	67-75
9	AI-Powered Cyber Defense Framework for Advanced Computing Environments and Critical Infrastructure	Moti Ranjan Tandi	76-85
10	Optimized Lightweight CNN Architectures for Real-Time Inference on Edge and Embedded Devices	SarkhoshSeddighiChaharborj	86-95
11	Transformer-Powered Object Detection for Smart and Real-Time Computing Platforms	BelalBatiha, Salma Ait Fares	96-107