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Nota di contenuto	General Technology Research of GEO Space Debris Exploration System Based on Hosted Situation Awareness Payload -- A new problem of resource scheduling for Cooperative awareness -- Gear tooth Fault Detection Based on Designed Convolutional Neural Networks -- Research on Satellite Fault Detection Method Based on MSET and SRPRT -- Satellite mission support efficiency evaluation based on Cascade decomposition and Bayesian network -- Importance Measurement of Parameters for Satellite Attitude Control System Fault Diagnosis Based on DBN -- An Optimized Timer-Based Passive Clustering Algorithm for Vehicular Ad Hoc Networks -- AODMAC: An Adaptive and On-Demand TDMA-Based MAC for Vehicular Ad Hoc Networks -- Trajectory design for 6-DoF asteroid powered landing via convex optimization -- Multi-debris removal in low-orbit based on swarm intelligence Research on

Optimal Guidance Method -- Low-orbit Satellite Solar Array Current Prediction Method based on Unsupervised Learning -- Anomaly Detection Method Based on Granger Causality Modeling Research on a management control system in Space-Terrestrial integrated network -- A Review of Fault Detection and Diagnosis of Satellite Power Subsystem -- Data-driven Approach for Satellite Onboard Observation Task Planning based on Ensemble Learning -- Analysis and Strategy Design for Quantitative Model-based Fault Diagnosis -- A new approach on Satellite Mission Planning with Revisiting Requirements -- Satellite Telemetry Data Anomaly Detection Based on Gradient Boosting Regression with Feature Selection -- Application of Population Based Incremental Learning Algorithm in Satellite Mission Planning -- A Dynamic Modified Routing Strategy based on Load Balancing in LEO Satellite Network -- International Workshop on Intelligent Satellites in Future Space Networked System -- The design and implementation of global navigation satellite system remote docking test platform -- Research On Distributed Beamforming Algorithm Based On Inter-satellite Link -- A Method for Performance Evaluation of the Low Earth Orbit Satellite Networks -- A Practical Joint Coding-Modulation Mode and Frequency-Time Resource Allocation Approach in MF-TDMA Satellite Communication Systems -- Research on intelligent transmission of space-based information -- Edge Computing Empowered Satellite-Territorial Networks: Service Architecture, Use Case, and Open Issues -- A model-driven development framework for satellite on-board software -- Approximate Computing Based Low Power Image Processing Architecture For Intelligent Satellites -- International Workshop on Integrated Space and Onboard Networks (ISON) -- The Design of a LEO Constellation Satellite Integrated Electronic System and the Reliability Analysis -- Discussion on Design Method of Spacecraft Information Flow Based on SysML -- Data Management of Space Station Bus Network.

Sommario/riassunto

This two-volume set LNICST 357-358 constitutes the post-conference proceedings of the 11th EAI International Conference on Wireless and Satellite Services, WiSATS 2020, held in Nanjing, China, in September 2020. The 91 full papers and workshop papers were carefully reviewed and selected from 200 submissions. Part I - LNICST 357 - details original research and results of wireless and satellite technology for a smarter global communication architecture. The theme of WISATS 2020 is "Intelligent Wireless and Satellite Communications for Beyond 5G". Part II – LNICST 358 - presents 6 workshop papers: High Speed Space Communication and Space Information Networks (HSSCSIN); Integrated Space and Onboard Networks (ISON); Intelligent Satellite Operations, Managements, and Applications (ISOMA); Intelligent Satellites in Future Space Networked System (ISFSNS); Satellite Communications, Networking and Applications (SCNA); Satellite Internet of Things; Trusted Data Sharing, Secure Communication (SIOTDSSC).