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Nota di contenuto

Chapter 1. Gas Turbine and Fuel Cell Hybrid Systems -- Chapter 2. Implementation of a 2-Seat Hybrid Electric Aircraft Demonstrator for Reducing Carbon Emissions -- Chapter 3. Thermal Analysis of ASTINSAT-1 -- Chapter 4. Numerical Examination of Different Flow Channel Fractions Effects in A Vanadium Redox Flow Battery with Serpentine Flow Field -- Chapter 5. Flutter Analysis of a 3-D Box Wing with Distributed Electric Propulsion -- Chapter 6. Force Attenuation Properties of Multilayer Polyurethane and 3D Fabric Composites -- Chapter 7. Transport Operators Total Load Comparison by Analytical Hierarchy Process (AHP) -- Chapter 8. Analysis of Safety Risks Related to Alternative Aviation Fuels -- Chapter 9. Additive Manufacturing Opportunities in the Aviation Industry -- Chapter 10. Comparison of the Speed Change and Vector Maneuver Techniques for the Conflict Resolution Problem: Fuel and Flight Time Analysis -- Chapter 11. Assessing Battery Characteristics During a Full Discharge in an Electric Aircraft -- Chapter 12. The Autonomous Air-Sea-Interface-Vehicle: Is it the Key to Abundant Green Energy? -- Chapter 13. Development of Viscous CFD Analysis Model Including Real Gas Effects for Nose Optimization at Hypersonic Speeds -- Chapter 14. Real World Path Generation for Non-Holonomic Systems with Obstacle Avoidance Using RRT* and Google Earth -- Chapter 15. Structural Synthesis of Euclidean Parallel Robot Manipulators of Spacecraft Docking System -- Chapter 16. Future prospects for fuel-cell aircraft – challenges and opportunities.

Sommario/riassunto

The International Symposium on Electric Aviation and Autonomous Systems is a multi-disciplinary conference that presents research in the fields of aerospace, autonomous, and piloted unmanned systems. The 2022 conference provided a platform offering insights on a broad range of current issues in aviation, including hybrid, electric, all-electric, and fuel cell aerial vehicles, electric generation, energy storage, propulsion technology, and new identification and detection systems that adapt to the latest technology standards. ISEAS allows researchers, scientists, engineers, practitioners, policymakers, and students to exchange information, present new technologies and developments, and discuss future direction, strategies, and priorities in aviation and sustainability. Offers recent research on a wide array of topics; Addresses current issues in aviation and sustainability; Full proceedings of ISEAS 2022, which was held at the University of Maribor.