1. Record Nr. UNINA9910790262803321 Space operations [[electronic resource]]: exploration, scientific Titolo utilization, and technology development / / edited by Craig A. Cruzen. Johanna M. Gunn, Patrice J. Amadieu Reston, Va., : American Institute of Aeronautics and Astronautics. Pubbl/distr/stampa **ISBN** 1-60086-818-5 9781600868193 Descrizione fisica 1 online resource (639 p.) Collana Progress in astronautics and aeronautics; ; v. 236 Altri autori (Persone) CruzenCraig A GunnJohanna M AmadieuPatrice J Soggetti Space flights Space vehicles - Piloting Astronautics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "This volume contains papers delivered at the ... eleventh SpaceOps conference in April 2010 hosted by NASA's Marshall Space Flight Center in Huntsville, Alabama." Nota di bibliografia Includes bibliographical references and index. ""Cover""; ""Title""; ""Copyright""; ""Foreword""; ""Contents""; ""Preface""; Nota di contenuto ""I. Mission Management""; ""Chapter 1 Space Operations for a New Space Era""; ""Chapter 2 RADARSAT-2 Mission Management Experience from Commercial Remote-Sensing Flight Operations""; ""Chapter 3 From MSG to MTG, Cost-Effective Operations of a Complex System"; ""Chapter 4 TerraSAR-X/TanDEM-X Mission Planning:Handling Satellites in Close Formation""; ""Chapter 5 Collision-Avoidance Operations for LEO Satellites Controlled by GSOC"" ""Chapter 6 Activities at EUMETSAT in the Frame of Space-Debris-Mitigation Recommendations"""Chapter 7 Ariane 5 Launch, First Step of ATV's Long Trip to the ISS""; ""Chapter 8 COSMO Sky Med Lessons Learned: Efficiency and Efficacy Parameters"; ""II. Spacecraft Operations""; ""Chapter 9 Evolution of the Commercial Aerospaceport""; ""Chapter 10 Constellation Ground Systems Launch-Availability Analysis: Enhancing Highly Reliable Launch Systems Design""; ""Chapter

11 Taking the European Committee for Space Standardization Autonomy Concepts One Step Further""

""Chapter 12 Operational Lessons Learned from the Ares I-X Flight Test""""Chapter 13 On-Orbit Servicing Missions: Challenges and Solutions for Spacecraft Operations""; ""Chapter 14 On-Orbit Servicing Mission Operations at German Space Operation Center""; ""Chapter 15 LCROSS Flight-Team Development and Operations Experience""; ""Chapter 16 SpaceX Mission Operations""; ""Chapter 17 Preflight Tests with Astronauts, Flight and Ground Hardware, to Ensure On-Orbit Success""; ""Chapter 18 Astronauts Beyond the Moon: Mission Operationsat a Near-Earth Object""

""Chapter 19 Geologic Mapping in Mars Rover Operations"""III. Ground System Operations""; ""Chapter 20 ADM-AEOLUS: Autonomy, Automation, and Mission Planning Reuse""; ""Chapter 21 Request-Driven Schedule Automation for the Deep Space Network""; ""Chapter 22 Virtualizing Monitoring and Control Systems:First Operational Experience and Future Applications""; ""Chapter 23 Enhanced Communication to LEO Satellites""; ""Chapter 24 Large Reflector Uplink Arraying""; ""Chapter 25 Message Bus Architectures Simplicity in the Right Places""

""Chapter 26 CCSDS Spacecraft Monitor and Control Mission Operations Interoperability Prototype"""Chapter 27 Design, Implementation, and Validation of a CCSDS Cross-Support Transfer Services Development Kit""; ""Chapter 28 Management of Disruption-Tolerant Networks:A Systems Engineering Approach""; ""Chapter 29 Space Network Time Distribution and Synchronization Protocol Development for Mars Proximity Link""; ""Chapter 30 Unleashing the Full Power of Today's Technologies for Flight Procedures Automation""; ""Chapter 31 Example of Predicting the View of a Satellite Impact""; ""Index"" ""Supporting Materials""