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Altri autori (Persone)	PengShuang DuChun LiJun
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Nota di contenuto	1. Introduction -- 2. Problem description and analysis of EOS task scheduling -- 3. Model and method of ground centralized EOS task scheduling -- 4. EOS Task rescheduling for dynamic factors -- 5. Model and method of ground distributed EOS task scheduling -- 6. Model and method of EOS onboard autonomous task scheduling -- 7. Satellite task scheduling system -- 8. Summary and prospect.
Sommario/riassunto	This book highlights the practical models and algorithms of earth observation satellite (EOS) task scheduling. EOS task scheduling is a typical complex combinatorial optimization problem with NP-Hard computational complexity. It is a key technology in aerospace

scheduling and has attracted global attention. Based on the actual needs of the EOS operation control center, the book summarizes and reviews the state of the art in this research and engineering field. In both deterministic scenarios and dynamic scenarios, the book elaborates on the typical models, algorithms, and systems in centralized, distributed, and onboard autonomous task scheduling. The book also makes an outlook on the promising technologies for EOS task planning and scheduling in the future. It is a valuable reference for professionals, researchers, and students in satellite-related technology. This book is a translation of an original Chinese edition. The translation was done with thehelp of artificial intelligence. A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.