

图书基本信息

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前言

We are very pleased to present to you the conference proceedings that contain all papers presented at 2010 International Conference on Risk and Reliability Management ( RRM 2010 ) . This is the second conference in the series of RRM conferences; it brings together researchers and practitioners from many countries and regions. The diversity of research topics covered events that can be seen in the Conference Program. The RRM 2010 to be held in Beijing, China in October 23-25, 2010, is hosted by School of Management & Economics, Beijing Institute of Technology. It is sponsored simultaneously by School of Management & Economics, Beijing Institute of Technology and School of Engineering & Applied Science, The George Washington University. Systems Engineering Society of Beijing and the Reliability Branch of OR Society of China are co-organizers of the conference. The conference also is supported by the National Natural Science Foundation of China ( NSFC ) . The objective of the 2010 RRM Conference is to provide a forum for academics and practitioners from all over the world to share the results of recent researches, as well as visions and experiences in the field of risk management and reliability. Focused on risk management and reliability, the proceedings present result of theoretical research or application case studies. They range from mathematical modeling to engineering applications. We are particularly happy to see many young researchers presenting their research findings at this event. These papers are grouped under different session names. We are very grateful to all authors and session chairs for contributing actively in this conference. We should also acknowledge that the conference secretariat and student assistants for their efforts in promoting and assisting in organizing this conference. Finally, we appreciate the support of School of Management & Economics, Beijing Institute of Technology, School of Engineering & Applied Science, The George Washington University, the National Natural Science Foundation of China ( NSFC ) , Systems Engineering Society of Beijing and the Reliability Branch of OR Society of China. We hope that you enjoy the conference, and look forward to meeting you again in the next conference in the near future.

## 内容概要

We are very pleased to present to you the conference proceedings that contain all papers presented at 2010 International Conference on Risk and Reliability Management ( RRM 2010 ) . This is the second conference in the series of RRM conferences; it brings together researchers and practitioners from many countries and regions. The diversity of research topics covered events that can be seen in the Conference Program.

作者简介

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## 章节摘录

插图：The role of rangeland in improving the ecological environment and maintaining ecological balance is mainly embodied in three aspects, that is, the leading role in comprehensive management of all types of degraded land, the main role in comprehensive management of scientific development in mountain areas, and the special role in recreation of beautiful mountains and rivers and the development of recycling economy. The sustainable use of rangeland resources means that the grassland resources should not only meet the needs of contemporary people but also not prevent future generations from their own needs. That is to say, the rangeland resources should not only ensure the normal people's needs in production and living in mountain areas but also meet their needs in ecological safety, that is, maintain the virtuous circle of the rangeland eco-economic system. With the increasing population and the gradual improvement of living standards, more and more attention has been paid to how to make full use of rangeland resources and improve their economic and ecological benefits as much as possible, so as to continuously improve the human standard of living and maintain a good living environment. Rangeland degradation, as a worldwide problem, is not only an eco-environmental problem but also a socio-economic issue. This is because rangeland degradation is often together with the fragile ecological environment and unsustainable development. Actually, in many cases, rangeland degradation indicates the failure relationship among population, resources and environment [5]. In mountain areas, rangeland degradation is closely related to over-population, climate changes, meager natural resources, inadequate investment, poor governance, extensive management, and the development concept concentrating on development but ignoring governance. The risk of rangeland degradation is a real but an easily overlooked problem. Rangeland degradation is not only an agricultural natural disaster but also closely related to the country's ecological security and water security. Generally speaking, rangeland areas are not suitable for farming and reclamation of rangeland may cause serious land degradation of mountain areas. The productivity (biomass yield) of these grasslands is highly influenced by summer rains. Primary productivity in this cold arid region is low compared to more temperate, moist regions. Consequently, these rangelands are prone to overutilization and degradation. A frequently repeated statistic is that 90% of China's grasslands are degraded to some extent [6] and studies from Qinghai and Tibet report that 23% and 17.2% of the total grassland areas are moderately or severely degraded. The productivity of rangelands has been adversely affected due to misuse and overgrazing, in accordance with the National Grassland Ecosystem Construction Planning and National Grassland Monitoring Report 2007, China's ecological environment of rangeland presented the overall deterioration and local improvements in 2007.

编辑推荐

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