Special Issue Reprint

Risk, Resilience and Reliability Analysis for Sustainable Management

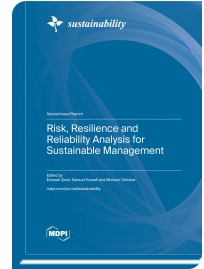www.mdpi.com/books/reprint/7946

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Due to the increasing importance of considering the socio-environmental issues in recent decades, most of today's critical systems should pursue sustainability-related objectives while meeting operational goals. Furthermore, sociotechnical systems working with complex operations represent dynamic complexity, relative ignorance, and intractability, which entail interactive and dependent social elements and organizational and human activities. Considering the influence of and the relationship between operational concerns such as risk, reliability, and resilience and strategic concerns such as sustainability helps managers and policy-makers make more reliable and efficient decisions in a wide range of engineering and management systems. This reprint tries to extend the available knowledge on the extent and quality of such interactions and discusses how one can ensure that reliability and resilience are maintained over dynamic conditions to achieve a sustainable operation. Under these conditions, most existing engineering and management systems in various industries (e.g., food, mining, and construction) should be required to undergo adaptive improvements to become more resilient to potential future typical or extraordinary circumstances. This reprint also sheds light on the challenges and future directions which the research community should focus on and introduces various approaches and applications to develop more sustainable and resilient solutions in both engineering and management systems.

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