Chapter 12
A Cloud–Based Approach for Cross–Management of Disaster Plans: Managing Risk in Networked Enterprises

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ABSTRACT

With the democratization of Data management through Big Data and Cloud Computing, and the proliferation of business lines into complex networks, industries are ever more subject to disasters than ever. It is practically impossible to forecast their happening and degree of damages. Consequently, companies try to collaborate in integrating risk management in their information systems against downtimes. This chapter addresses this problem by outlining and discussing insights from the extensive literature review to produce a generic approach for cross-management. A set of prerequisites of disaster planning is also provided with comparative analysis and arguments. The proposed approach is focused on risk assessment methodology based on Fuzzy Cognitive Map. The method is able to aggregate all assessment variables of the whole stakeholders involved in the business network. The key findings of this study aim to assist enterprises in improving risk readiness capability and disaster recovery. Finally, we indicate the open challenges for further researches and an outlook on our future research.

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