Overview of Trust Models Integrating Trust Management into Grid Computing

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Abstract

The collaborations in open environments are necessarily coupled with potential dangers. Recently, in the grid computing the trust management has been recognized as a mechanism for managing the dangers and learning from past interactions. In the last few years several trust models were proposed. The models incorporate trust into the process of decision making whether or not to collaborate through a grid environment. However, the accuracy of the made decisions is dependent on a correct assessment and representation oftrustworthiness assigned to the collaborating parties. The paper overviews several trust models, specify their characteristic attributes and describe the models according to the specified attributes. The overview enables a better understanding of trust management integration into the grid computing. It also defines essential features of the trust models that should be considered during the design of future models.

References


**Index Terms**

Computer Science                  Information Sciences

**Keywords**

Trust model overview, trust management, trust value modelling, trust value structure