Context Interchange: Overcoming the Challenges of Large-Scale Interoperable Database Systems in a Dynamic Environment (Classic Reprint) (Paperback)

By Cheng Hian Goh

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Context Interchange: Overcoming the Challenges of Large-Scale Interoperable Database Systems in a Dynamic Environment Research in database interoperability has primarily focused on circumventing schematic and semantic incompatibility arising from autonomy of the underlying databases. We argue that, while existing integration strategies might provide satisfactory support for small or static systems, their inadequacies rapidly become evident in large-scale interoperable database systems operating in a dynamic environment. The frequent entry and exit of heterogeneous interoperating agents renders frozen interfaces (e.g., shared schemas) impractical and places an ever increasing burden on the system to accord more flexibility to heterogeneous users. User heterogeneity mandates that disparate users conceptual models and preferences must be accommodated, and the emergence of large-scale networks suggests that the integration strategy must be scalable and capable of dealing with evolving semantics. As an alternative to the integration approaches presented in the literature, we propose a strategy based on the notion of context interchange. In the context interchange framework, assumptions underlying the interpretations attributed to data are explicitly represented

Reviews

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