

Semantic Service Integration & Metropolitan Medical Network

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Semantic Service Integration & Metropolitan Medical Network

[Patel, Nikeshbhai](#)



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Abstract:

Patel, Nikeshbhai. M.S., Purdue University, August, 2005. Semantic Service Integration & Metropolitan Medical Network. Major Professor: Dr. Chung-Kuo Chang. Medical health partners use heterogeneous data formats, legacy software and strictly licensed vocabularies which make it hard to integrate their data and work. Integration of services and data are the two main necessities. The current architecture used provides partial solution by providing one-to-one mapping wrappers. This thesis provides discussion on difficulties encountered by the coexistence of so many medical vocabularies and efforts to provide interoperation. Also other problems are listed which hinders the interoperation between health partners. Solution is proposed for some of these problems by forming semantic network based on multi-agent technology. Service composition and integration stages are shown to develop future advance health services. Middle layer is implemented which performs integration and provides common platform for sharing information, using global ontology and local domain ontology. Inferencebased matchmaking algorithm proposed in this thesis helps in mapping and achieving our goal. Six different filtering techniques are selected and used in matchmaking algorithm. Analysis of these filtering techniques is provided to understand the integration process. In the ending section an abstract idea is proposed on basis of network architecture and matchmaking algorithm to develop Open Terminological System.

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