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ANT-INSPIRED TECHNIQUE FOR AUTOMATIC WEB SERVICE COMPOSITION AND SELECTION

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ABSTRACT. This paper presents a new technique for semantic Web service composition inspired by the behavior of ants. The proposed technique combines a service composition graph model with the ant colony optimization metaheuristic to identify the optimal composition solution. For the optimal composition solution selection we have used the QoS attributes of the services and the semantic quality of the connections between the services involved in a composition solution.