

EXPLORING THE ROLE OF AGENT-ORIENTED SOFTWARE ENGINEERING IN SERVICE-ORIENTED COMPUTING

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ABSTRACT

This paper aims to promote more practical use of agent-oriented software engineering (AOSE) principles, techniques and technologies in the modeling, design and ultimately realization of autonomic service composition and orchestration in service-oriented computing. AOSE offers a rich collection of design metaphors such as roles, capabilities, commitment and teamwork, which can be used to enrich the modeling and design of the advanced service capabilities underpin autonomous IT and business service orchestration. The key motivation of this paper is to reiterate the need to finding more practical options that can further simplify and accelerate service delivery through the use of the appropriate AOSE techniques and technologies.

KEYWORDS: Service-Oriented Computing, Agent-Oriented Software Engineering, Multi-Agent Systems