Empirical analysis of anticipatory standardization processes: a case study
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Abstract

The processes followed for developing anticipatory standards such as those for web services are still not well-understood. In spite of the openness of the process, there are few analyses that shed light on the roles that different participants play or the actions they engage in during the development of these standards. We analyze archival documents that capture development of SOAP, a core web service standard. Our analysis shows that participants spend a bulk of their time discussing technical issues, identifying action items, and engaging in discussion to reach consensus. These activities reveal prototypical roles that participants take on such as: Advocate, Architect, Bystander, Critic, Facilitator, Guru, and Procrastinator. Together, the findings support the existence of three clusters in standards development processes: design activities performed by Architects, sense-making activities performed by Critics, and managerial activities performed by Facilitators; along with the important activity of coordinating the work of multiple participants. We discuss implications of our findings and identify opportunities for future work.

Keywords Standardization process - ICT standards - Web services - Roles - Activities - DSN framework

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A Study on Services Motivating Computing Professional Association Membership

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Abstract
The purpose of this study is to investigate computing professionals’ perspectives on services offered by a professional association. A conceptual framework was developed based on a review of relevant literatures to explore the motivations of professionals to join and maintain professional association membership. A survey instrument was developed based on the conceptual framework, and was subsequently deployed within the Association of Information Technology Professionals (AITP). The analyses (N = 220) include descriptive analyses, exploratory factor analysis, and internal consistency reliability analyses. The results suggest that members’ needs and motivations are multidimensional, involving ten distinct and internally consistent underlying constructs. This paper contributes by providing a reliable measurement system for computing professional association leadership to make informed decisions and provides substantive recommendations for offering targeted services. The findings suggest that important aspects of computing professional membership are networking with local professionals, professional development programs, and promoting their concerns.

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