عنوان مقاله:

Fuzzy Approach for Improving Performance of Business Process Modeling

محل انتشار:

اولین کنفرانس بین المللی فناوری اطلاعات، دولت الکترونیک و شهر هوشمند (سال: 1396)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

Business Process Model and Notation (BPMN) [۱]is a standard for business process modeling that it will provide businesses with the capability of understanding their internal business procedures in a graphical notation and will give organizations the ability to communicate these procedures in a standard manner. It used by a great number of organizations around the world in any kind of business process. However, technical experts in software company for analyzing organization system use BPMN notation that is very complex and numerous which is lead to spend much time for this issue and approving process modeling in organization by domain experts. BPMN MUSIM, as a suggestion of Isastur Company, tries to reduce the number of elements needed in a business process modeling notation to the minimum necessary. Although this offer due to improving some complication in this outline, but it cannot satisfy software engineer in some cases. In this paper, we design a fuzzy inference system for evaluating level of complexity with adding BPMN elements to BPMN MUSIM notation; if level of complexity is low, domain experts can add it for modeling process. The use of fuzzy logic in the system is due to some uncertainty in distinguish of selecting common range of different notations for adding process when dealing with lack of BPMN MUSIM notation for modeling rolled process. Eventually, based on the obtained rules which get from consulting an expert and add a certain amount of notations, a fuzzy system is designed to have a fuzzy look at certain data and fuzzy calculation will describe the certain result of adding elements with probability percentage.

کلمات کلیدی:

BPMN, technical expert, BPMN MUSIM, domain expert, fuzzy logic, fuzzy inference system, level of complexity, adding notation

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