



Fuzzy Time Buffers in Project Scheduling

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Abstract: Buffers [1] are a broadly studied and often employed project scheduling tool. They allow exerting a psychological impact on the contractors responsible for individual tasks via not fully revealing the real possibilities of extending the deadline for task which they have been assigned. However, the buffer size[1] is still an open issue, since it cannot be specified precisely at the project scheduling stage because each project is characterized by uncertainty and incomplete knowledge regarding the personality traits, attitudes and preferences of the project personnel and also of the project stakeholders. Fuzzy numbers can serve as a tool enabling mathematical modeling of uncertainty and incomplete knowledge, as well as the views, attitudes and preferences[2]. Therefore the application of fuzzy numbers in the modeling of buffers, and thus of project scheduling, is proposed. This proposal shall be illustrated on an example of a real construction project.

Keywords: Fuzzy modeling, Time buffers.

References:

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