عنوان فارسی مقاله:
مدل تصمیم گیری چند معیار جدید برای بهینه سازی مشکلات تجارت، کیفیت زمان، هزینه در پروژه های ساختمانی.

عنوان انگلیسی مقاله:
A novel multi criteria decision making model for optimizing time–cost–quality trade-off problems in construction projects

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
5. Conclusion

In this paper, and for the first time, in addition to solving the DTCQTP, an exhaustive framework to rank the obtained Pareto solutions was proposed and tested. A multi-objective genetic algorithm (MOGA) with NSGA-II procedure was tailored to solve DTCQTP, and it was then utilized to solve an 18 activity network benchmark case study from the literature. The global optimal Pareto solutions were ranked using the ER approach using the weights obtained from Shannon's entropy technique. The results indicated that the ER approach is more efficient in ranking the Pareto solutions when compared to the results of Mungle et al. (2013). The proposed approach of this research study enables the DMs to know the performance of each solution with a transparent view with respect to each attribute, and consequently decide on an optimal solution with more confidence. A detailed framework to integrate MCDM methods into multi-objective optimization techniques was proposed in order to consider all the influential criteria which facilitate the process of reaching a consensus regarding a chosen solution. The authors believe that the proposed methodology in applying the MCDM approach (i.e., the ER approach) can generate more practical solutions in terms of project scheduling. It is expected that the proposed approach can assist industry, project managers, and researchers in the planning phase of construction projects.