

## عنوان مقاله:

Autonomous Assembly Configuration Process in Industry 4.0 Framework

## محل انتشار:

شانزدهمین کنفرانس بین المللی مهندسی صنایع (سال: 1398)

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## خلاصه مقاله:

Industry 4.0 has attracted the attentions of manufacturing researchers. The widespread adoption of robotic and digital manufacturing technologies enables to design non-standard, highly customized products for different customer demands. Autonomous assembly techniques are capable for greater scalability, adaptability and flexibility in design and implementation. Optimizing design and implementation is a substantial challenge requiring flexible configuration scenarios of autonomous assembly by highlighting the viability of decentralized, collective assembly systems, demonstrating the potential to deliver an efficient configuration solution. This paper concerns with developing an intelligent control system based on mathematical optimization in the Internet of Things (IoT) platform to process configuration of an autonomous assembly system. The implementation study certifies the effectiveness and commercialism potential of the proposed IoT-based control system in autonomous assembly.

## کلمات کلیدی:

Industry 4.0; Autonomous assembly; Mathematical optimization

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1034759>

