

Lecture Notes in Mechanical Engineering

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Emerging Trends in Mechanical and Industrial Engineering

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Submission 105

Title	Reverse Engineering approach by using Data Analytics through Web Scraping for mechanical product design
Paper:	 (Feb 10, 12:08 GMT)
Author keywords	Reverse Engineering Web Scraping Mechanical Product Design
Abstract	<p>The Reverse Engineering is a very prominent approach which can reduce the development time for mechanical products. In reverse engineering, previously developed products are deductively analyzed, and knowledge gained from analysis is used for developing the new products. Most of the mechanical product design details are readily available on manufacturer's websites which can be automatically analyzed through data analysis tools. This paper proposes an automated reverse engineering approach for developing 3D product designs by using data analytics. Oldham's coupling is taken as case study for demonstrating the usefulness of the proposed approach. The developed system uses web scraping functionality of Visual Basic Application Programming Interface provided in CATIA V5 application. The data extracted from web scraping is made available for designer and in-put regarding association of different parameters is taken from designer. Associated parameters are used to create product design by using preexisting visual basic script. Output generated by the developed system shows that 3D product design is automatically created for Oldham's coupling by using Web Scraping technique.</p>
Submitted	Feb 10, 12:08 GMT
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Certificate

This is to certify that Prof./Dr./Mr./Ms. Umeshchandra Mane
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Rohit Singh Lather

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