

عنوان مقاله:

Historical perspective of the industrial revolutions: how we got here – Industry 4.0

محل انتشار:

دوازدهمین کنفرانس بین المللی چالشهای نوین در مهندسی صنایع و مدیریت عملیات (سال: 1397)

تعداد صفحات اصل مقاله: 18

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خلاصه مقاله:

This study focus on conceptual analysis of conjoint strategy related to industrial revolutions and what were the factors - social, technological, etc., that characterized them and which brought us to the 4th Industrial Revolution. In order to better understand Industry 4.0 , analysis and guide-lines for future research perspectives, we carried out a literature review. This chapter has synthe-sized and categorized the industrial revolutions in order to identify the definition of evolution, development and the degree of involvement to the term Industry 4.0 in other production areas. We observed that the term Industry 4.0 is much broader concept than originally thought. These trends (Industry 4.0) are not to be compared simply with a greater level of production automa-tion, a process that has, since the last decade, been driven by developments in electronics and information technology. The widespread adoption by manufacturing industry around the world of information and communications technology is now paving the way for disruptive approach-es to development, production, logistics chain and enterprise, and all kind of communication, as machine to machine (m2m), machine to human (m2h), human to human (h2h), and new business opportunities

کلمات کلیدی:

Industrial Revolution, Industry 4.0; Historical perspective

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