

## عنوان مقاله:

A Research Outlook of Emerging Technologies in Structural Health Monitoring

## محل انتشار:

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## خلاصه مقاله:

Structural damage detection is crucial for safe operation. This process is labour intensive, time consuming and costly. To overcome these limitations, it is necessary to provide a reliable, quantitative and low-cost scheme in order to evaluate the structural condition. In this direction, the emerging information technologies and applications such as non-contact measurement devices, internet of things, data mining and artificial intelligence algorithms have recently attracted significant industrial and academic interest to allow smart nondestructive evaluation of civil structures. This paper attempts to present the development of these technologies in structural health monitoring (SHM). To do so, a brief background of these platforms is discussed in this paper. Then, their applications in SHM are presented with the aim of showing the efficiency of these methods.

## کلمات کلیدی:

Smart Structural Health Monitoring, Internet of Things (IoT), Data Mining, Internet of Drone (IoD), Big Data, (Unmanned Aerial Vehicle (UAV

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