

The Role of IoT in Woman's Safety: A Systematic Literature Review

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Abstract: *Women's safety has been highlighted as one of the major concerns of any society where several women are dealing with various safety issues like harassment, rape, molestation, and domestic violence due to different social or cultural reasons. Internet of Things (IoT) is becoming a promising technology to support day-to-day concerns and provide support in handling various affairs. Many IoT-based devices have been introduced by the community to help women deal with their potential safety threats. This study presents a systematic literature review of research studies exhibiting the IoT devices for women's safety, the main features these devices offer as well as the wearable, sensors used, and the machine learning algorithms used. The Internet of Things (IoT) is highly significant to the protection of women as it encompasses constant surveillance, activation of alerts and links to emergency response systems during crisis events. Distress signals or irregular behaviors can be automatically reported through devices enabled with the IoT, such as a wearable safety device, a smart home system, or a mobile application, to either the police or other registered contacts. Such technologies help minimize response time, enhance safety, and maximize convenience in public as well as private areas. With IoT, it becomes easier to incorporate various security features in routine practice by automatically locking doors, tracking movement by GPS, and identifying users by their physical attributes and this is a more preventive approach to women's safety.*

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