عنوان مقاله:

Routing in Body-wireless sensor networks using Analytical HierarchyProcess

محل انتشار:

سومین کنفرانس بین المللی پژوهشهای کاربردی در مهندسی کامپیوتر و فن آوری اطلاعات (سال: 1394)

تعداد صفحات اصل مقاله: 10

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خلاصه مقاله:

In recent years humans tend to have a longer and healthier life; resulting in many health systems have been designed.Embedded, networked, and distributed systems like wireless sensor networks are suitable for monitoring of health and safetyamong older adults or checking the vital signs of patients continuously. Wireless sensor networks are comprised of energyconstrained nodes. This limitation has led to the crucial need to provide solutions to increase network lifetime. Theimportant thing is that some of these sensors may be located in the human body such as the brain or heart. Hence, thelocation information of sensors has to be considered in choosing the next node. In this paper, we offer a solution to the aboveproblem using Analytic Hierarchy Process (AHP), considering multiple factors while choosing next node. Results show thatthis solution can extend the network lifetime while increase critical .sensors lifetime

کلمات کلیدی:

wireless sensor networks, routing, Analytic Hierarchy Process, Healthcare