كليه علوم الحاسوب وتكنولوجيا المعلومات /قسم علوم الحاسوب
البحوث العلمية المنشورة للفترة من (2022/9/1 - 2023/10/30)

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[Energy-efficient routing protocol in wireless sensor networks based on bacterial foraging optimization | Adil Abdulzahra | Indonesian Journal of Electrical Engineering and Computer Science (iaescore.com)](#)	Vol 29, No 2	Indonesian Journal of Electrical Engineering and Computer Science (iaescore.com) **SCOPUS**	Energy-efficient routing protocol in wireless sensor networks based on bacterial foraging optimization	عبد الملك عادل بيداء عبد القادر د. عماد شعلان	**6-**
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م. شعبة ضمان الجودة وتقييم الأداء
م.د. معالم عبدعلي حسن