# عنوان مقاله:

SubthresholdP assT ransistorL ogic for Ultra-Low PowerO peration

# محل انتشار:

پانزدهیمن کنفرانس مهندسی برق ایران (سال: 1386)

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### خلاصه مقاله:

In this paper, we investigate subthresholdp ass-t ransist o r log ics for ultra-l owpower applications. The pe.rformance characteristics of dffirent pass-transistor XOR structures operating in the subthreshold region have been compared in 65nm and 90nm technologies.T he results of the simulationss how that the subthreshold logics have some advantages compared to their strong inversion counterparts. The study includes both normal subthreshold passtransistor logic (sub-PT) and dyramic threshold pass-transistor logic (sub- DTPD. When compared to the former, the latter logic reveals lower sensitivities to temperature and process variations. asst ransistorlo logic

**کلمات کلیدی:** Subthresholdo peration,U Itra lowpower,

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