

**عنوان مقاله:**

Printed Optical Phantom For Photoplethysmography

**محل انتشار:**

سیزدهمین کنفرانس مهندسی پزشکی ایران (سال: 1385)

تعداد صفحات اصل مقاله: 6

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**خلاصه مقاله:**

In this paper, the design and development of a photoplethysmogram (PPG) phantom is presented. The phantom is designed by alternating zones of optical transmission between zero and one hundred percent. The output of the phantom shows a very good reproduction of typical PPG signals. As a particular application, fetal heart rate detection is proposed. The fetal pattern is overlapped with the maternal one to produce a mixed signal. Results show that a recursive least-squares algorithm is capable to extract the peaks of the desired PPG signal, hence the heart rate

**کلمات کلیدی:**

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/53701>

