
Reviewer Invitation for MEAS-D-26-00460

1 message

Measurement <em@editorialmanager.com>

Thu, May 7, 2026 at 6:37 PM

Reply-To: Measurement <support@elsevier.com>

To: Yusnita Rahayu <yusnita.rahayu@lecturer.unri.ac.id>

Ms. Ref. No.: **MEAS-D-26-00460**

Type: Research Paper

Title: A Holistic Approach to Non-Invasive Based In-Vivo Blood Glucose Sensing with Photoacoustic Technique using SDNN Framework
Measurement

Dear Assoc. Prof Dr. Assoc. Prof Dr. Yusnita Rahayu,

Measurement, the Journal of the International Measurement Confederation, has received the above paper submitted for publication.

We would be grateful if, as an expert in the field, you would referee these papers and give your opinion and recommendations.

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Elena Brusamarello, PhD
Scientific Handling Editor
Measurement

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ABSTRACT:

Background: Monitoring blood sugar levels accurately is crucial for managing diabetes, but conventional invasive techniques pose discomfort and decrease patient adherence to treatment. This has resulted in an increasing demand for noninvasive methods that can provide adequate glucose estimation without the need for frequent blood collection. The Photoacoustic (PA) technique has been recognized as a valuable method due to its elevated sensitivity, specificity, and ability to monitor in real time, making it ideal for non-invasive blood glucose evaluation. Method: We leveraged the PA technique and effectively utilised the potential of the entire PA signal waveform parameters, rather than single values alone. A Shallow Dense Neural Network architecture has been built with the hybrid loss function comprising (logcosh + huber loss) in glucose estimation. The extraction of essential attributes from a PA signal like root mean square voltage, valley voltage, peak voltage, average rectified voltage, instantaneous power, and peak-to-peak voltage values results in enhanced blood glucose levels. All these parameters have been utilised as inputs to train the model.

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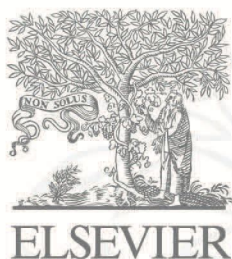
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REVIEWER REPORT

TITLE	A holistic approach to non-invasive based in-vivo blood glucose sensing with photoacoustic technique using SDNN framework
JOURNAL	Measurement
MANUSCRIPT NUMBER	MEAS-D-26-00460
YEAR	2026
AUTHORS	-
REVIEWER	YUSNITA RAHAYU

ABSTRACT	-
NOVELTY	Not strong enough. The advantage of this paper is that it uses a different algorithm from the others, SDNN with log-cosh and Huber loss, and a larger number of samples, but it is not strong enough to claim it as novelty, because the existing samples do not represent overall glucose levels.
METODOLOGY	1. Data on glucose values from samples is only from 91-155 mg/dl, this data is clinically insufficient to detect glucose levels, especially for those with severe hyperglycemic >200 mg/dl and hypoglycemic <70 mg/dl. 2. The author does not discuss how much pressure the index finger has on the sensor; do all samples have the same pressure? 3. Justify: To enhance the signal quality, coherent averaging of 1024 frames, each containing 1000 samples, is performed to reduce random noise.
RESULTS	1. The author uses several other parameters such as Root Mean Square Voltage (V_{rms}), Valley voltage (V_{valley}), Peak voltage (V_{peak}), Average Rectified Voltage ($V_{avg-rect}$), and Instantaneous Power values apart from V_{pp}, and claims that these findings exhibit a favorable outcome when compared to other studies. How is this claim validated if the amount of glucose value data is insufficient? And why should these parameters be used in SDNN? 2. Table V is a comparison table with previous research, but the comparison is made to research that is too old, is there really no recent research that can be used as a comparison? 3. With insufficient glucose value data, the results cannot be said to represent all glucose levels 4. Why does the author say this is a portable stand alone? While using bulky testing instruments? 5. What do you mean by holistic here?

REFERENCES	Most references cited in this paper are too old; only a few are the latest
OVERALL	Reject, but with option to resubmit



Measurement

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Awarded for 1 review in May 2026
presented to

YUSNITA RAHAYU

in recognition of the review contributed to the journal

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Reviewer Invitation for Revised Version MEAS-D-26-00460R1

1 message

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Reply-To: Measurement <support@elsevier.com>
To: Yusnita Rahayu <yusnita.rahayu@lecturer.unri.ac.id>

Fri, Jun 19, 2026 at 4:22 PM

Ref: **MEAS-D-26-00460R1**

Title: A Holistic Approach to Non-Invasive Based In-Vivo Blood Glucose Sensing with Photoacoustic Technique using SDNN Framework

Authors: P N S Prasad V; Syed Hussain; Vineela Dodda; Nagamalleswari Katragadda; Pradyut Sanki

Type: Research Paper

Dear Assoc. Prof Dr. Assoc. Prof Dr. Yusnita Rahayu,

We have received a copy of the revised version of the above-referenced manuscript. This submission is the revised version of the paper that you have already reviewed. I would be grateful if you could give me an opinion on its suitability for publication, as you very kindly reviewed the original version.

Our goal is to provide as rapid a response as possible to our authors. Therefore, please register your response as soon as your schedule allows.

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Yours sincerely,

Elena Brusamarello, PhD
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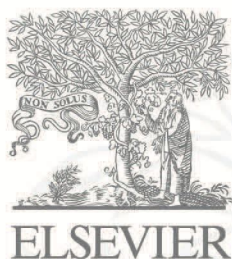
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REVIEWER REPORT

TITLE	A holistic approach to non-invasive based in-vivo blood glucose sensing with photoacoustic technique using SDNN framework
JOURNAL	Measurement
MANUSCRIPT NUMBER	MEAS-D-26-00460
YEAR	2026
AUTHORS	-
REVIEWER	YUSNITA RAHAYU

ABSTRACT	-
NOVELTY	The author has carried out further revisions and updated the comparison table with related studies, thereby making the novelty more apparent.
METODOLOGY	1. The author has added 32 new hyperglycemic samples but no hypoglycemic samples, due to the limited availability of the individuals. 2. The author identifies the optimal finger position as being at a distance of 5 mm and includes the corresponding mathematical analysis; however, the justification for this is currently absent from the manuscript itself—appearing only in the response to the reviewer. I recommend incorporating this mathematical analysis or formula into the body of the manuscript.
RESULTS	1. The author has added new data to complete the sample set. 2. Table V has been updated. 3. Since primary data from individual samples is unavailable, is there any secondary data that can be used for training? This is to ensure the proposed model is valid across the entire glucose range. 4. This has been revised. 5. This has been explained, and the title has been changed.
REFERENCES	The latest 5-year references is 38% better than the previous one.
OVERALL	Accepted with minor revision



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