

Title of Paper :

# The Determination of Dawn Time through Image Processing Camera

Authors : Harry Ramza, et. Al

Tabel of Correction

No	Before	After
<b>Introduction</b>		
1	Reviewer Comment: The urgency of using image processing cameras is not in the introduction, there is no research that supports the importance of image processing to determine improving the quality of Muslim prayer services.	Paragraph 7 at Introduction;  The time of dawn prayer is one of the important moments for Muslims, and determining the right time to start the morning prayer service is an obligation in Islam. Traditionally, the time for the morning prayer is determined based on the observation of the sun and the position of dawn. However, these observations can be affected by weather and geographic conditions, so the results are not always accurate. Therefore, this study aims to use the camera in image processing to detect the exact moment when dawn occurs, and thus determine the time of the morning prayer more accurately.
2	Research objectives are not clear.	Paragraph 9 at Introduction; “This study aims to implement an image processing system using a camera to detect dawn and determine the time of dawn prayer accurately. By utilizing image processing technology, it is hoped that this research can provide more precise information regarding the starting time of the morning prayer, and reduce potential inaccuracies caused by weather or geographical conditions”.
<b>Methodology</b>		
3	There is no explanation for each variable from the formula used	On the paragraph 3: The research method used in this study involves installing cameras in strategic locations to observe the sky and horizon before sunrise. The image taken will be processed using image processing techniques to identify the moment when the dawn

light appears which indicates the time of the morning prayer. Edge detection, image segmentation, and color analysis algorithms will be used to process image data and obtain information about the time of dawn.

- 4 There is no explanation of the dip value function obtained We can refer to reference numbers 13, 14 and 15 and page 7 from the manuscript.

### Results and Discussion

- 5 no table 2 explanation The results of image processing will be analyzed and interpreted to determine the time of dawn prayer based on the detection of the moment of dawn. The data and findings from this analysis will be used as a basis for determining the time of the morning prayer more accurately. The results of this study will be compared with the traditionally determined time of the morning prayer to assess its accuracy.

This research is expected to provide benefits and contributions in determining the time of the morning prayer more precisely and accurately. By utilizing image processing technology, this method can assist Muslims in performing their morning prayers at the right time in accordance with religious teachings. In addition, the results of this study can provide better guidance for mosque managers and the community in determining the time of dawn prayer, especially in weather conditions that do not allow direct sun observation.

- 6 Description: the number 7 indicates the time of dawn - the first sadiq which can be seen in Table 2.. The number of seven indicates the time of dawn - the first sadiq that can be seen in Table 2.

In the last revision, the authors revised the calculation of the cut-off point by determining the equation root of the polynomial 3rd-order.

- 7 Determination of dawn - sadiq based on no. sequence or something else, for example mean or standard deviation? The cut-off point of the dawn – Sadiq determines based on the sequence number of Table 2 refers to the polynomial equation obtained.

- 8 is there a journal that supports the determination of dawn – sadiq? We can refer to,  
 12. T. Amri, "Waktu Shalat Perspektif Syar'i," *Jurnal Asy-Syari'ah*, Vol. 16, No. 3, pp. 206-215, 2014, doi: <https://doi.org/10.15575/as.v16i2>.  
 13. S. Azhari, *Ensiklopedi hisab rukyat*. Jakarta: Pustaka Pelajar, 2005, isbn no: 979-979-372-136-0.

14. Z. Husniyah, "Analisis pengaruh perhitungan Solar Dip Tono Saksono terhadap awal waktu Salat Isya dan Subuh," Bachelor of Science Undergraduate (S1), Program Studi Ilmu Falak, Universitas Islam Negeri Sunan Ampel, Surabaya, 2019.
15. H. Ramza, Z. Sari, B. Bunyamin, T. Saksono, and M. H. M. Khir, "Towards the Compilation of the Global Twilight Pattern," *ULUM ISLAMIYYAH*, Vol. 33, No. 1, pp. 71-83, 2021, doi: <https://doi.org/10.33102/uij.vol33no1.269>.
16. [15] Z. Zainuddin, "Posisi Matahari Dalam Menentukan Waktu Shalat Menurut Dalil Syar'i," *Jurnal Elfalaky*, Vol. 4, No. 1, pp. 36-55, 2020, doi: <https://doi.org/10.24252/ifk.v4i1.14166>.

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## Conclusion

The authors insert the additional statements that, **"Using the camera in image processing, it's an innovative approach that can be applied to determine the early time of praying accurately. By detecting early time moments through image processing, this potential research provides information on the dawn praying activity based on the right time and concordant to Islamic guidance with full awareness and sincerity"**.

9 the sun is at a dip of 15.780 --- where to get the dip value?

There is a typo in the writing. The last result amount of 14.98.

---

## #1687 Summary

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### Submission

Authors	Harry Ramza, Tossa Hario Yudhanto, Dedy Sugiharto, As'ad Syaifudin Ulum, Mohammad Mujirudin, Emilia Roza, Mohammad Syuhaimi Ab-Rahman, Tono Saksono, Mohd Haris Md Khir	
Title	The Determination of Dawn Time through Image Processing Camera	
Original file	1687-4528-1-SM.DOCX 2023-05-02	
Supp. files	None	<a href="#">ADD A SUPPLEMENTARY FILE</a>
Submitter	Mr Harry Ramza 	
Date submitted	May 2, 2023 - 04:08 AM	
Section	Artikel	
Editor	Ardi Pujiyanta  Yulita Salim 	

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## Title and Abstract

Title The Determination of Dawn Time through Image Processing Camera

Abstract

Determining the early time prayer is very fundamental for Muslims because it relates to the legal requirements for prayer. Prayers are not performed whenever we want, but there is a determination of the beginning and end of the prayer time as a guideline for Muslims to carry it out. The government sets standards for Muslims to perform the dawn prayer service, namely by determining the degree of the emergence of the dawn of *sadiq* by  $-20^0$ . This study aims to compare the determination of the government's dawn time using different sensors, namely drone cameras as image sensors, drones were chosen because they have several advantages. The data generated by the drone is in the form of photos, then the photo data is processed using digital image processing software, namely image - J. The data obtained are in the form of mean and standard deviation, all data in 1 day is recorded using Excel so as to form a graph of data which is then carried out by a polynomial approach to find out the cutoff point as the beginning of the dawn of *Sadiq* which indicates the start of dawn. The method used in this research is using the 4<sup>th</sup> order polynomial approach and the *Sarrus* method and the data obtained is the mean value and standard deviation. The conclusions obtained in the image analysis research are that the government's dawn time is 15 minutes too fast, the standard obtained in this study is  $-14.98^{\circ}$  and unlike 2D SQM data, 3D drone data results in more accurate data analysis.

## Indexing

Keywords dawn of *sadiq*; early time prayer; image sensor; cut – off point; drone camera  
Language en

## Supporting Agencies

Agencies Research Institute, Universitas Muhammadiyah Prof. Dr. HAMKA

## OpenAIRE Specific Metadata

ProjectID —

## References

References [1] M. A. Amrulloh, "Penentuan Awal Waktu Shalat Subuh Menurut Kementerian Agama dan Aliran Salafi," *Jurisdictie*, Vol. 2, No. 2, pp. 120-134, 2011, doi: <https://doi.org/10.18860/j.v0i0.2165>.  
[2] M. Ahyar, Y. Pramudya, A. Raisal, and O. Okimustava, "Penentuan Awal Waktu Subuh Menggunakan Sky Quality Meter Pada Variasi Deklinasi Matahari" in *Prosiding SNEA (Seminar Nasional Fisika dan*

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Sky Quality Meter Pada variasi Deklinasi Matahari, in PROSIDING SNFA (SEMILAR NASIONAL FISIKA DAN Aplikasinya), Surakarta, INDONESIA, 2018, pp. 184-189, doi: <https://doi.org/10.20961/prosidingsnfa.v3i0.28542>.

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[13] Z. Husniyah, "Analisis pengaruh perhitungan Solar Dip Tono Saksono terhadap awal waktu Salat Isya dan Subuh," Bachelor of Science Undergraduate (S1), Program Studi Ilmu Falak, Universitas Islam Negeri Sunan Ampel, Surabaya, 2019.

[14] H. Ramza, Z. Sari, B. Bunyamin, T. Saksono, and M. H. M. Khir, "Towards the Compilation of the Global Twilight Pattern," ULUM ISLAMIIYAH, Vol. 33, No. 1, pp. 71-83, 2021, doi: <https://doi.org/10.33102/uij.vol33no1.269>.

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[15] Z. Zainuddin, "Posisi Matahari Dalam Menentukan Waktu Shalat Menurut Dalil Syar'i," Jurnal Elfalaky, Vol. 4, No. 1, pp. 36-55, 2020, doi: <https://doi.org/10.24252/ifk.v4i1.14166>.

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**Title** The Determination of Dawn Time through Image Processing Camera

**Section** Artikel

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Review Version	1687-4529-2-RV.DOCX 2023-05-29
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**Authors** Harry Ramza, Tossa Hario Yudhanto, Dedy Sugiharto, As'ad Syaifudin Ulum, Mohammad Mujirudin, Emilia Roza, Mohammad Syuhaimi Ab-Rahman, Tono Saksono, Mohd Haris Md Khir 

**Title** The Determination of Dawn Time through Image Processing Camera

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Proofreader None

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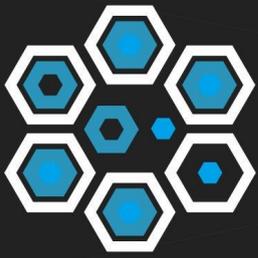
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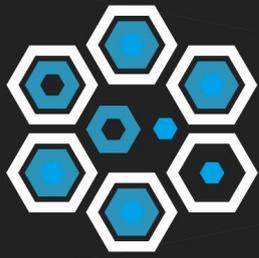
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We are pleased to inform you that your paper entitled "*The Determination of Dawn Time through Image Processing Camera*" has been accepted to be published in ILKOM Jurnal Ilmiah for edition of Vol. 15, No. 3, December 2023. **Congratulations!** .

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Fri, Oct 20, 2023 at 2:23 PM

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Mr Harry Ramza:

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Tue, Oct 31, 2023 at 6:59 AM

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Dear the honorable authors,

Harry Ramza, Tossa Hario Yudhanto, Dedy Sugiharto, As'ad Syaifudin Ulum, Mohammad Mujirudin, Emilia Roza, Mohammad Syuhaimi Ab-Rahman, Tono Saksono, Mohd Haris Md Khir

We are pleased to inform you that your paper entitled The Determination of Dawn Time through Image Processing Camera has been accepted to be published in ILKOM Jurnal Ilmiah for edition of Vol. 15, No. 3, December 2023. Congratulations! .

Thank you very much for contributing in ILKOM Jurnal Ilmiah.

Editor-in-Chief,  
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**Harry Ramza** <hramza@uhamka.ac.id>

Thu, Nov 2, 2023 at 2:31 PM

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Dear Chief Editor  
ILKOM Jurnal Ilmiah  
Ms Yulita SalimThanks for your information about our publication.  
Attached payment receipt of Bank.

Best regards

Ir. Harry Ramza, MT PhD

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Reviewer B:

1. Introduction

- The urgency of using image processing cameras is not in the introduction, there is no research that supports the importance of image processing to determine improving the quality of Muslim prayer services.

- Research objectives are not clear.

2. Methodology

- There is no explanation for each variable from the formula used

- There is no explanation of the dip value function obtained

3. Results and Discussion

- no table 2 explanation

- description: the number 7 indicates the time of dawn - the first sadiq which can be seen in Table 2..

A. determination of dawn - sadiq based on no. sequence or something else, for example mean or standard deviation?

B. is there a journal that supports the determination of dawn – sadiq?

4. Conclusion

the sun is at a dip of 15.780 --- where to get the dip value?

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Reviewer C:  
accept

accept

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Subject: [ILKOM] Editor Decision

DELETE

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Mr Harry Ramza:

We have reached a decision regarding your submission to ILKOM Jurnal Ilmiah, "The Determination of Dawn Time through Image Processing Camera".

Our decision is to: Accept Submission

Yulita Salim  
SCOPUS ID: 57202237115 - Computer Science - Universitas Muslim Indonesia  
[yulita.salim@umi.ac.id](mailto:yulita.salim@umi.ac.id)

Yulita Salim

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