

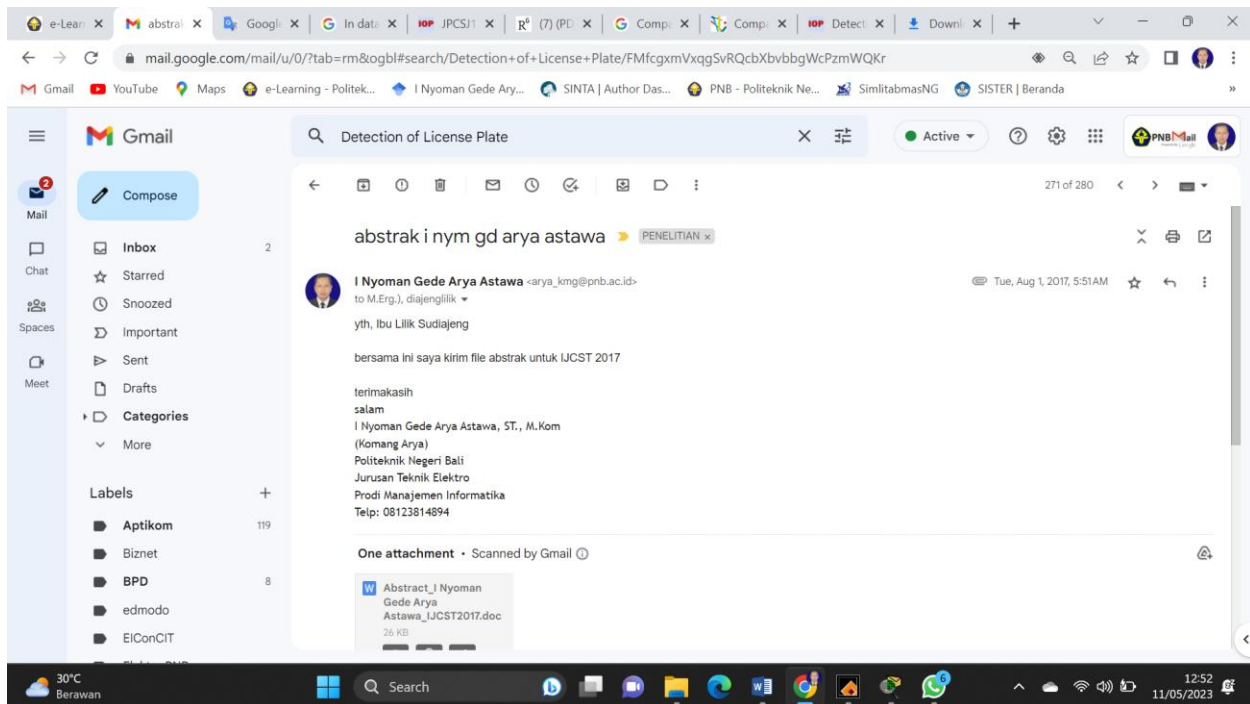
Title: Detection of License Plate using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machines Method

Coference: The 2nd International Joint Conference on Science and Technology (IJCSST) 2017, 27–28 September 2017, Ayodya Resort, Nusa Dua, Bali- Indonesia

Publish: Journal of Physics: Conference Series.

<https://iopscience.iop.org/article/10.1088/1742-6596/953/1/012062>

Abstrak Paper dikirim kepada IJCST



Detection of License Plate Position using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machine Method

I Nyoman Gede Arya Astawa¹, I Gusti Ngurah Caturbawa², I Made Sajayasa³, I Made Ari Dwi Suta Atmaja⁴

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Abstract

The license plate recognition usually used as part of systems such as parking system. License plate detection considered as the most important step in the license plate recognition system. In this paper, we used Sliding Window, Histogram of Oriented Gradient (HOG), and Support Vector Machines (SVM) method to license plate detection so it will increase the detection level even though the image is not in a good quality. The image proceed by Sliding Window method in order to find plate position. Feature extraction in every window movement had been done by HOG and SVM method. Good result had shown in this research, which is 96% of accuracy.

Keywords: detection, plate, HOG, SVM

LOA IJCST

The screenshot displays a Gmail interface on a Windows desktop. The browser address bar shows the email URL: <https://mail.google.com/mail/u/0/?tab=rm&ogbl#search/Detection+of+License+Plate/FMfcgxmVxqg5vSXrfdTzWcqjrHbpZmQg>. The search bar contains the text "Detection of License Plate".

The email is from **Bali IJCST** (bali@ijcst2017@gmail.com) and is dated **Aug 1, 2017, 6:10 AM**. The subject is **UPDATED LOA IJCST 2017**. The body of the email reads:

Dear colleagues/authors

Please find in attachment the acceptance of the abstract and invitation letter to join IJCST 2017. Thank you very much for your kind contribution and see you soon in the conference.

Kind regards

Below the text, there are **2 Attachments** scanned by Gmail:

- LOA_232.docx
- Registration of IJ...

At the bottom of the email, there are three response buttons: "Received, thank you.", "Well received with thanks.", and "Thanks a lot." The Windows taskbar at the bottom shows the system tray with a temperature of 30°C, the date 11/05/2023, and the time 12:51.



INTERNATIONAL JOINT CONFERENCE ON SCIENCE AND TECHNOLOGY (IJCST) 2017
27 - 28 SEPTEMBER 2017, Bali, INDONESIA



Denpasar, 22 July 2017

Ref : 07.162/IJCST/2017
Subject : **Abstract Acceptance Letter**

Dear Mr/Mrs. I Nyoman Gede Arya Astawa
Paper ID : 232E
Paper Title : "Detection of License Plate Position using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machine Method"

We are delighted to inform you the decision of scientific committee that your paper has been accepted to be presented in **The 2nd International Joint Conference on Science and Technology (IJCST) 2017** which will be held on 27-28 September 2017 at Ayodya Resort Nusa Dua, Bali.

Please prepare your full paper according to template and layout of the full text given at <http://bali-ijcst.org/callpaper.php#> and submit to email address: ijcst2017@gmail.com, due to 11 August 2017.

In mean time please complete registration with transfer the contribution payment to account :

Account Name : NI KADEK DESSY HARIYANTI
Account No. : 0575286121
Bank : BANK BNI
Swift Code : BNINIDJA

CATEGORY	INDONESIAN (IDR)	INTERNATIONAL (USD)
Participant	1,500,000	150
Author		
- Student	1,500,000	150
- Non-Student	2,000,000	200
Additional Paper	500,000	50

And please send the transfer proof to email : ijcst2017@gmail.com , with subject : Contribution Registration_Paper ID

Thank you very much for your participation and contribution, see you soon in the conference.

Best Regards,

Conference Chair
Lilik Sudiajeng (Dr. Ir., M.Erg.)
Tel: +62-361-701981
Fax: +62-361-701128
Mr.Sunu : 0821-4600-1588
E-mail: ijcst2017@gmail.com
Web : <http://www.bali-ijcst.org>

Full paper dikirim ke IJCST

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- Search:** Detection of License Plate
- Subject:** paper I Nyoman Gede Arya Astawa
- From:** I Nyoman Gede Arya Astawa <arya_kmg@pnb.ac.id>
- To:** IJCST
- Date:** Sat, Aug 12, 2017, 1:15 PM
- Body:**

salam
I Nyoman Gede Arya Astawa, ST., M.Kom
(Komang Arya)
Politeknik Negeri Bali
Jurusan Teknik Elektro
Prodi Manajemen Informatika
Telp: 08123814894
- Attachment:** One attachment - Scanned by Gmail
paper I Nyoman Gede Arya Astawa - Plate_Detection_IJCST (878 KB)

Revisi paper

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- Subject:** Revision paper ID 232E
- From:** I Nyoman Gede Arya Astawa <arya_kmg@pnb.ac.id>
- To:** IJCST
- Date:** Sat, Aug 26, 2017, 8:25 AM
- Body:**

Together we send you a revised paper
my paper ID 232E

salam
I Nyoman Gede Arya Astawa, ST., M.Kom
(Komang Arya)
Politeknik Negeri Bali
Jurusan Teknik Elektro
Prodi Manajemen Informatika
Telp: 08123814894
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Detection of License Plate


Paper review

Bali IJCST <ijcst2017@gmail.com> to me

Dear authors,
 We delighted inform you that your full paper has already been reviewed by scientific chair and could be presented orally with revision in The 2nd International Joint Conference on Science and Technology (IJCST) 2017 which will be held on 27-28 September 2017 (please see review results at attachment)
 Please send back the revision paper via email : ijcst2017@gmail.com, with subject : **Paper Revision_Author Name_ID** no later than 7 September 2017.
 Thank you very much and See you soon in the conference

Best regards,
 IJCST 2017 committee

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30°C Berawan 13:00 11/05/2023

Paper sudah direvisi

mail.google.com/mail/u/0/?tab=rm&ogbl#search/Detection+of+License+Plate/FMfcgxmVzTMscZDwLRDZkRjWwGmVXHhM

Detection of License Plate

paper revision_I Nyoman Gede Arya Astawa_232E

I Nyoman Gede Arya Astawa <arya_kmg@pnb.ac.id> to M.Erg.

dear : IJCST

this is my paper revision

thanks
 salam
 I Nyoman Gede Arya Astawa, ST., M.Kom
 (Komang Arya)
 Politeknik Negeri Bali
 Jurusan Teknik Elektro
 Prodi Manajemen Informatika
 Telp: 08123814894
 background

Layanan keluhan masalah wifi
 unud_wifi, unud_wifi

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Revisi paper untuk terbit di IOP

The screenshot shows a Gmail interface with a search bar containing "Detection of License Plate". The email is titled "Paper Journal Revision_232E" and is from I Nyoman Gede Arya Astawa to M.Erg. The content of the email is as follows:

yth, Ibu Lilik Sudiajeng

selamat siang..
kemarin paper saya sudah direview oleh bapak dewa cipta dan bersama ini saya kirim file revisi papernya mudah-mudahan lolos di jurnal IOP

suksma
salam
I Nyoman Gede Arya Astawa, ST., M.Kom
(Komang Arya)
Politeknik Negeri Bali
Jurusan Teknik Elektro
Prodi Manajemen Informatika
Telp: 08123814894

One attachment - Scanned by Gmail

Paper sudah disubmit ke IOP

The screenshot shows a Gmail interface with a search bar containing "Detection of License Plate". The email is titled "Submit ke IOP Journal of Physics: Conference Series" and is from Bali IJCST to Ni, sutawinaya, Putu, Anak, I, I, Ni, Komang, I, Ida, Illiksudiajeng, I, Ni, Putu, arditainengah, I, I, me, mawa2id, Putu, ayuharry, budisentana, Putra, suarta_bedi, Dewint. The content of the email is as follows:

Yth Bapak /Ibu ,

Selamat !!
Kami sudah men-submit paper-paper yang telah Bapak/Ibu presentasikan pada Seminar IJCST 2017 dan terseleksi ke IOP Journal of Physics : Conference Series (multidisciplinary edition) pada tanggal 24 November 2107.

Kami mengucapkan banyak terima kasih atas partisipasi yang luar biasa dari Bapak/Ibu semoga paper-paper dapat accepted pada journal tersebut, lebih lanjut kami menunggu konfirmasi lebih lanjut dari IOP

Salam,
Scientific committee IJCST 2017

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Paper accepted di IOP

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Kepada,
Yth Bapak/Ibu Authors Politeknik Negeri Bali,

Kami sangat berbahagia mengumumkan bahwa setelah direview dari pihak IOP dan sudah dilakukan revisi minor oleh *scientific committee IJCST 2107*, paper Bapak Ibu yang sudah di-*accepted* terlampir.

Untuk selanjutnya dimohon Bapak/Ibu authors untuk melengkapi **publishing fee** senilai IDR 600.000 (Enam ratus ribu rupiah) Invoice terlampir. Proses pembayaran sampai batas waktu tanggal 22 Januari 2018. Keterlambatan proses ini dapat menyebabkan mundurnya publikasi dan atau pembatalan publikasi oleh IOP.

Demikian Bapak/Ibu sekali lagi selamat!!

Dan kami mengucapkan terima kasih banyak atas partisipasinya dalam meningkatkan kinerja Penelitian-Publikasi Bapak/Ibu di Politeknik Negeri Bali. Lebih lanjut kami akan terus memantau dan mengumumkan progress publikasi dari Pihak IOP.

Salam hangat ,

Chair women & Scientific committee Chair-IJCST 2017

The interface also shows a sidebar with navigation options like Compose, Mail, Chat, Spaces, and Meet, and a list of labels including Aptikom, Biznet, BPD, edmodo, and EIconCIT.



INVOICE

Dear Author/s,

Paper ID: JPCSJ9531062.pdf

Surname: Arya Astawa

Paper Title: Detection of License Plate Position using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machine Method

This invoice is for payment of online publication of The 2nd International Joint Conference on Science and Technology (IJCST) 2017, 27-28 September 2017, Ayodya Resort, Nusa Dua, Bali- Indonesia in Journal of Physics: Conference Series.

TOTAL AMOUNT DUE IN IDR : Rp. 600,000 (Six hundred thousand Rupiahs)

Payment is accepted by bank transfer:

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Branch : Renon, Denpasar -Bali -Indonesia
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Beneficiary : Ni Kadek Dessy Hariyanti

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Sincerely yours,
Conference chair

A handwritten signature in black ink, followed by the acronym 'IJCST' in blue text.

Dr. Ir. Lilik Sudiajeng, M.Erg

Paper publish di IOP

<https://iopscience.iop.org/article/10.1088/1742-6596/953/1/012062>

The screenshot shows a web browser window with the IOPscience website. The page title is "Journal of Physics: Conference Series". The article title is "Detection of License Plate using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machines Method". The authors listed are INGA Astawa¹, I Gusti Ngurah Bagus Caturbawa¹, I Made Sajayasa¹ and I Made Ari Dwi Suta Atmaja¹. The article is published under licence by IOP Publishing Ltd. The citation is INGA Astawa et al 2018 *J. Phys.: Conf. Ser.* 953 012062. The DOI is 10.1088/1742-6596/953/1/012062. There is a button for "Article PDF". On the right side, there is a "You may also like" section with several journal articles listed. The browser's address bar shows the URL: iopscience.iop.org/article/10.1088/1742-6596/953/1/012062. The browser's taskbar at the bottom shows the date and time as 13:09 11/05/2023.

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Detection of License Plate using Sliding Window, Histogram of Oriented Gradient, and Support Vector Machines Method

INGA Astawa¹, I Gusti Ngurah Bagus Caturbawa¹, I Made Sajayasa¹ and I Made Ari Dwi Suta Atmaja¹

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