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PLAGIARISM & REFERENCING

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CONTENT

Plagiarism & Collusion

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- Self plagiarism
- Why do students plagiarize?
- Avoiding plagiarism

Referencing

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- Referencing Tools

Plagiarism & Collusion

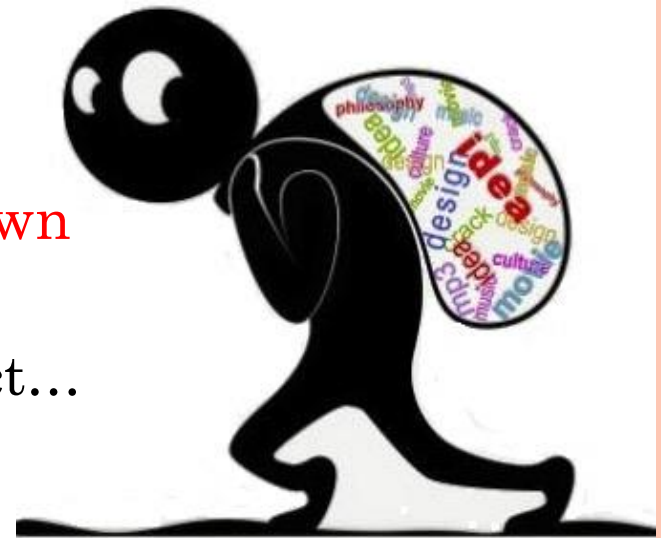


WHAT IS PLAGIARISM AND COLLUSION?

- Plagiarism is the use of someone else's work (published or unpublished) without proper acknowledgment

“Plagiarism passing off someone else's work, whether intentionally or unintentionally, as your own for your own benefit” [1]

- Serious form of academic misconduct...
Don't do it!!!!
- Collusion is a form of plagiarism
 - Two or more students work together and submit the same piece of work or part of it



WHAT IS PLAGIARISM AND COLLUSION? (CONT'D)

- Serious penalties including failure in courses or possibly the whole degree
- Common examples of plagiarism:
 - Copying another student's work
 - Using unreferenced published material in reports (e.g. from the internet)
- University will use automatic plagiarism detection software



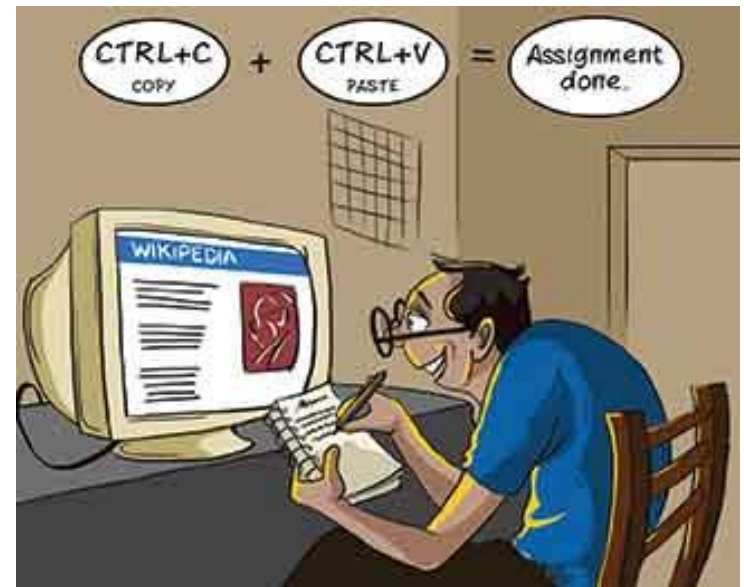
SELF PLAGIARISM

- Recycling or re-using coursework is a type of plagiarism
 - Student presents previously submitted work as new material
 - Student re-uses parts of previously written text in a new piece of work
- Work, or significant sections from work, that have been previously submitted for assessment **CANNOT BE RE-USED**



WHY DO STUDENTS PLAGIARIZE?

- Poor time-management and research skills
- Emphasis on grades vs learning
- Fear of failure - It is more “honorable” to receive a low grade than to be caught cheating
- Lack of interest and lack of understanding
- Laziness



AVOIDING PLAGIARISM

To avoid plagiarism and collusion:

- Do your own practical work
- Write reports in your words
- Include **references and citations**
- Do not lend your work to other students
- Manage your time effectively

Use your own ideas



if you don't, it's
plagiarism!

REFERENCES AND CITATIONS

- Referencing is an important part of ensuring a clear distinction between your words and the words and ideas of others
- Referencing generally has two key parts:
 - Citations
 - A list of references
- A citation is an in-text marker that indicates that a particular concept, phrase or idea comes from another source
- The reference list gives the details of all sources referred to in the document

LIST OF REFERENCES

This directive is used to flatten nested loops into a single loop hierarchy. It will cost a clock cycle to move between loops in the loop hierarchy and flattening nested loops allows them to be optimized as a single loop, saving clock cycles and potentially allowing greater optimization of the loop-body logic.

- `Set_directive_interfaces_axilite`

This directive is used to specify how RTL ports are created from the function description during interface synthesis. In this case, the output of the proposed IP is set to AXI slave lite interface.

- `Set_directive_interface_axi`

Similar to 's_axilite' interface, this directive is used to specify the output of the proposed IP is set to AXI master interface.

A C++ synthesis was performed to translate the C++ codes to HDL, the archived results are provided in the following subsections.

B. Programmable Logic Utilisation

The proposed architecture consumes about 33% of the available LUTs and 9% Flip-flops. It is worth noting that the targeted Zynq SoC has the smallest chip capacity in its family,

REFERENCES

- [1] I. Jawhar, N. Mohamed, J. Al-Jaroodi, Z. Sheng, "Data communication in linear wireless sensor networks using unmanned aerial vehicles," International Conference on Unmanned Aircraft Systems, pp.492,499, 2013.
- [2] S. Cameron, S. Hailes, S. Julier, S. McClean, G. Parr, N. Trigoni, M. Ahmed, M, "SUAAVE: Combining aerial robots and wireless networking," 25th Bristol International UAV Systems Conference, pp. 1-14, 2010.
- [3] T. Patterson., S. McClean, P. Morrow, G. Parr and C. Luo, "Timely Autonomous Identification of UAV Safe Landing Zones," Elsevier Robotics and Autonomous Systems," Image and Vision Computing, vol. 32, pp. 568-578, 2014.
- [4] C. Luo, L. Teacy, R. De Nardi, S. McClean and G. Parr "UAV Position Estimation and Collision Avoidance using the Extended Kalman Filter," IEEE Transactions on Vehicular Technologies, vol. 62, no. 6, pp: 2749-2762, 2013.
- [5] W. Teacy, J. Nie, S. McClean and G. Parr, "Maintaining connectivity in UAV swarm sensing," IEEE GLOBECOM Workshops, pp. 1771-1776, 2010.
- [6] X. Zhai and F. Bensaali, "Improved Number Plate Character Segmentation Algorithm and Its Efficient FPGA Implementation", Journal of Real-time Image Processing, Springer, vol.10, issue 1, pp. 91-103, 2015.
- [7] X. Zhai, F. Bensaali and R. Sotudeh, "Real-Time Optical Character Recognition on FPGA for ANPR", IET Circuits, Devices & Systems, vol.7, issue 6, pp. 337-344, Nov, 2013.

Author(s)

Title

X. Zhai and F. Bensaali, "Improved Number Plate Character Segmentation Algorithm and Its Efficient FPGA Implementation", Journal of Real-time Image Processing, Springer, vol.10, issue 1, pp. 91-103, 2015.

Publication info

Date

CITATIONS

Abstract Character segmentation is an important stage in Automatic Number Plate Recognition systems as good character separation leads to a high recognition rate. This paper presents an improved character segmentation algorithm based on pixel projection and morphological operations. An efficient architecture based on the proposed algorithm is also presented. The architecture has been successfully implemented and verified using the Mentor Graphics RC240 FPGA (Field Programmable Gate Arrays) development board equipped with a 4M-Gate Xilinx Virtex-4 LX40. A database of 1,000 UK binary NPs with varying resolution has been used for testing the performance of the proposed architecture. Results achieved have

[1]. Computer vision and character recognition algorithms for Automatic Number Plate Recognition (ANPR) are used as an important technique for intelligent infrastructure systems such as electronic payment, access control, tracing of stolen cars or identification of dangerous drivers [2]. Generally, an ANPR system consists of three stages: number plate localisation (NPL), character segmentation and optical character recognition (OCR). NPL is the stage where the number plates (NPs) are localised in the input image from the ANPR camera. The character segmentation stage is an important pre-processing step before applying OCR, where each character from the detected NP is segmented before recognition so that only useful information

recognition. In the last stage, optical character recognition will be converted into encoded text by transformation models [3].

the most common hardware choice for ANPR

References

1. Jia, X., Wang, X., Li, W., Wang H.: A novel algorithm for character segmentation of degraded license plate based on prior knowledge. In: Proceedings of IEEE Int. Conf. Automation and Logistics, pp. 249–253 (2007)
2. Lian, F., Fan, Y., Zhang, Y.: Study of technology in electronic toll collection. *Comput. Eng. Appl.* **43**, 204–207 (2007)
3. Zhai, X., Bensaali, F., Ramalingam, S.: License plate localisation based on morphological operations. In: Proceedings of 11th Int. Conf. Control Automation Robotics and Vision, pp. 1128–1132 (2010)

REFERENCING STYLES

- There are hundreds of referencing styles
- Different disciplines use different styles
- If you are unsure which referencing style to use, consult your course guide or ask your instructor
- Most popular referencing styles:
 - Harvard – Used across most subjects
 - Vancouver – Used mainly in the medical science
 - Chicago – Used by some humanities and social science
 - IEEE – Used in engineering disciplines

IEEE REFERENCING STYLE

- IEEE referencing style is a numeric system
 - A source is given a citation number in-text in []
 - Sources in the reference list are ordered according to first appearance in text

I. INTRODUCTION

Automatic number plate recognition (ANPR) system is an important research topic in Intelligent Transportation Systems (ITS). Typically, an ANPR system consists of three stages: 1) Number Plate Localisation (NPL), 2) Character Segmentation (CS), and 3) Optical Character Recognition (OCR). The NPL stage is where the Number Plate is detected. The CS stage is an important stage before applying OCR, where each character of the Number Plate is segmented before recognition. In the OCR stage, characters are segmented from the Number Plate and information is retained for recognition where the image format will be converted into characters [1].

REFERENCES

- [1] C. N. E. Anagnostopoulos, I. E. Anagnostopoulos, I. D. Psoroulas, V. Loumos and E. Kayafas "License plate recognition from still images and video sequences: A survey," in IEEE Transaction Intelligent Transportation System vol. 9, pp. 377-391, 2008.
- [2] J.-M. Guo and Y.-F. Liu, "License Plate Localization and Character Segmentation With Feedback Self-Learning and Hybrid Binarization Techniques," IEEE Transactions On Vehicular Technology, vol. 57, pp. 1417-1424, 2008.

IEEE REFERENCING STYLE – WHERE TO PUT THE CITATION?

- Citation number must be put directly after the reference and not at the end of the sentence or paragraph (unless this is where the reference is mentioned)

Example

from a country to another. Various algorithms and techniques were reported in literature to perform OCR such as feature extraction techniques [2-4], template matching or correlation [5-6], statistical classifiers [5, 7] and artificial neural networks (ANN) [1].

IEEE REFERENCING STYLE – DIRECT QUOTES

- Direct quotes are used when another author expresses an idea in a way that you feel should not be changed
- Quoted passages should be kept as short as possible
 - Sometimes it is necessary to add/change a few words from a quote to improve readability
 - Use an ellipsis (...) to indicate that some words have been left out of the quotation
 - Use square brackets to indicate words that have been added/changed

IEEE REFERENCING STYLE – DIRECT QUOTES (CONT'D)

- Double quotation marks are used for short quotations (less than three lines)
 - A brief phrase to introduce the quotation must be used

As Neville emphasises, “you should cite all resources and present full details of these in your list of references” [1]

Reference:

[1] C. Neville, *The Complete Guide to Referencing and Avoiding Plagiarism*, 2nd ed. Maidenhead: Open University Press, p.37, 2010.

IEEE REFERENCING STYLE – DIRECT QUOTES (CONT'D)

- For longer quotations, block quotation can be used without quotation marks
 - Clearly indent the quote

Neville comments that:

It can sometimes be difficult, if not impossible, to avoid using some of the author's original words, particularly those that describe or label phenomena. However, you need to avoid copying out what the author said, word for word. Choose words that you feel give a true impression of the author's original ideas or action

Do not overuse direct quotes

IEEE REFERENCE LIST EXAMPLES

Type of source	Format
Book (one author)	[1] N. Storey, <i>Electronics: a systems approach</i> . 4th ed. Harlow: Pearson, 2009.
Book (two authors)	[2] F. Giannini and G. Leuzzi, <i>Nonlinear Microwave Circuit Design</i> . Chichester: J. Wiley and Sons, 2004.
Book (three or more authors)	[3] U. J. Gelinias, <i>et al.</i> , <i>Business Processes and Information Technology</i> . Cincinnati: South-Western/Thomson Learning, 2004.
Electronic Books	[4] L. Bass, P. Clements, and R. Kazman, <i>Software Architecture in Practice</i> , 2nd ed. Reading, MA: Addison Wesley, 2003. [Online] Available: Safari e-book.
Theses (M.S.) and Dissertations (Ph.D.)	[5] J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, 1993.

IEEE REFERENCE LIST EXAMPLES (CONT'D)

Type of source	Format
Conference paper	[6] F. Bensaali, et al., “A Stand-Alone Application for Automatic Bulk Returning of Students’ Reports”, Int. Conf. on E-Learning and E-Technologies in Education, pp. 9-15, Indonesia, Sep. 2015.
Journal article	[7] E. P. Wigner, “Theory of traveling wave optical laser,” <i>Phys. Rev.</i> , vol. 134, pp. A635-A646, Dec. 1965.
Website with author	[8] J. Amos (2012, Feb. 12). “Eavesdropping on the Squid World”. BBC News [Online]. Available: http://www.bbc.co.uk/news/science-environment-17117194 . [Accessed: Feb. 27, 2012].
Website with no author	[9] “A ‘layman’s’ explanation of Ultra Narrow Band technology,” Oct. 3, 2003. [Online]. Available: http://www.vmsk.org/Layman.pdf . [Accessed: Dec. 3, 2003].

REFERENCING TOOLS

Tool	Description
<u>EndNote</u>	Commercial reference management software package. Can be installed so that its features appear in the Tools menu of Microsoft Word (i.e. Add-on)
<u>BibTex</u>	Referencing software for use with LaTeX documents
<u>Mendeley</u>	Free a desktop and web reference manager
<u>Zotero</u>	Free tool available as an extension for the Firefox browser
<u>CiteThisForMe</u>	Free web reference manager

FURTHER INFORMATION

- IEEE Citation Reference. Available: www.ieee.org/documents/ieeecitationref.pdf
- EndNote support pages: guides and online tutorials. Available at: <https://library.leeds.ac.uk/researcher-endnote>
- Using CiteThisForMe Tutorial. [YouTube Video](#)