Teaching bias in AI and Robotics to Mexican Children

Anonymous Author(s)*

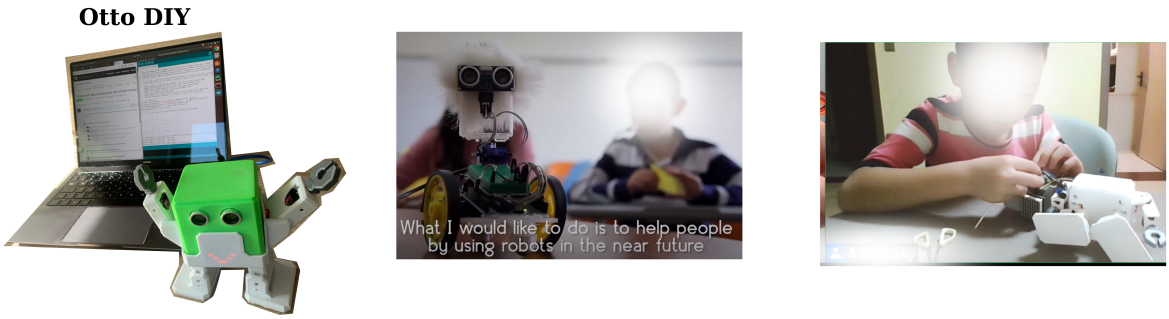

Figure 1: (a) Robot prototype (b) open-source robots for ai and robotics, (c) piloting teaching materials with children.

ABSTRACT

A clear and well-documented LaTeX document is presented as an article formatted for publication by ACM in a conference proceedings or journal publication. Based on the "acmart" document class, this article presents and explains many of the common variations, as well as many of the formatting elements an author may use in the preparation of the documentation of their work.

CCS CONCEPTS

• **Human-centered computing** → **Empirical studies in HCI**; **Accessibility systems and tools**; • **Applied computing** → *Interactive learning environments*; • **Social and professional topics** → **Children**; • **Computing methodologies** → *Cognitive robotics.*

KEYWORDS

Child-centred AI, Educational Robotics, Child-robot interaction

ACM Reference Format:

Anonymous Author(s). 2023. Teaching bias in AI and Robotics to Mexican Children. In *HRI '23: ACM/IEEE International Conference on Human-Robot Interaction, March 13-16, 2023 Stockholm, SE.* ACM, New York, NY, USA, 2 pages. https://doi.org/XXXXXXX.XXXXXXX

1 INTRODUCTION

Teaching Artificial Intelligence (AI) and Robotics to young learners has been made progress in the last decate [1, 4]. However, programming skills might be a barrier for young learners to which visual and auditory programs address such challenge [3].

HRI '23, March 13–16, 2023, Stockholm, SE

ACM ISBN 978-1-4503-XXXX-X/18/06…$15.00
https://doi.org/XXXXXXX.XXXXXXX

Table 1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
Ø	1 in 1,000	For Swedish names
π	1 in 5	Common in math
$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage

ACM's consolidated article template, introduced in 2017, provides a consistent LaTeX style for use across ACM publications, and incorporates accessibility and metadata-extraction functionality necessary for future Digital Library endeavors. Numerous ACM and SIG-specific LaTeX templates have been examined, and their unique features incorporated into this single new template [2].

If you are new to publishing with ACM, this document is a valuable guide to the process of preparing your work for publication. If you have published with ACM before, this document provides insight and instruction into more recent changes to the article template.

The "`acmart`" document class can be used to prepare articles for any ACM publication — conference or journal, and for any stage of publication, from review to final "camera-ready" copy, to the author's own version, with *very* few changes to the source.

2 TEACHING BIAS IN AI AND ROBOTICS TO CHILDREN

Immediately following this sentence is the point at which Table 1 is included in the input file; compare the placement of the table here with the table in the printed output of this document.

Immediately following this sentence is the point at which Table 2 is included in the input file; again, it is instructive to compare the placement of the table here with the table in the printed output of this document.

Always use midrule to separate table header rows from data rows, and use it only for this purpose. This enables assistive technologies

Table 2: Some Typical Commands

Command	A Number	Comments
\author	100	Author
\table	300	For tables
\table*	400	For wider tables

to recognise table headers and support their users in navigating tables more easily.

3 STUDY DESIGN AND CURRICULUM DESIGN

A "teaser figure" is an image, or set of images in one figure, that are placed after all author and affiliation information, and before the body of the article, spanning the page. If you wish to have such a figure in your article, place the command immediately before the

A "teaser figure" is an image, or set of images in one figure, that are placed after all author and affiliation information, and before the body of the article, spanning the page. If you wish to have such a figure in your article, place the command immediately 2.

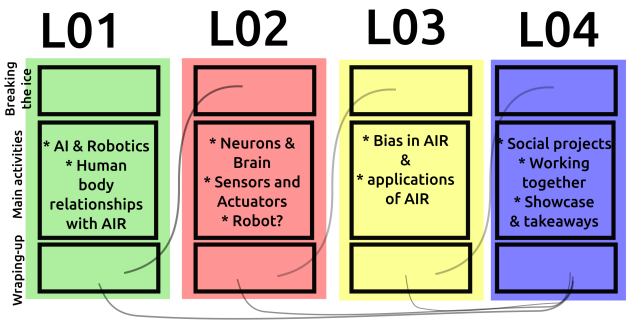

Figure 2: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (https://goo.gl/VLCRBB).

4 RESULTS

A "teaser figure" is an image, or set of images in one figure, that are placed after all author and affiliation information, and before the body of the article, spanning the page. If you wish to have such a figure in your article, place the command immediately before the

A "teaser figure" is an image, or set of images in one figure, that are placed after all author and affiliation information, and before the body of the article, spanning the page. If you wish to have such a figure in your article, place the command immediately 1.

5 CONCLUSIONS AND FUTURE WORK

Table 1 is included in the input file; compare the placement of the table here with the table in the printed output of this document.

Table 1 is included in the input file; compare the placement of the table here with the table in the printed output of this document.

REFERENCES

[1] Antonio Badillo-Perez, Badillo-Perez Donato, Coyotzi-Molina Diego, Cruz Dago, Montenegro Rocio, Vazquez Leticia, and Xochicale Miguel. 2022. Piloting Diversity and Inclusion Workshops in Artificial Intelligence and Robotics for Children. arXiv:2203.03204 [cs.RO] https://github.com/air4children/hri2022

[2] Xiaoxue Du. 2022. Explore the Use of Artificial Intelligence to Co-Design Inclusive Teaching Practices. (2022).

[3] Duri Long and Brian Magerko. 2020. What is AI Literacy? Competencies and Design Considerations. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems* (Honolulu, HI, USA) *(CHI '20)*. Association for Computing Machinery, New York, NY, USA, 1–16. https://doi.org/10.1145/3313831.3376727

[4] Rocio Montenegro, Elva Corona, Donato Badillo-Perez, Angel Mandujano, Leticia Vazquez, Dago Cruz, and Miguel Xochicale. 2021. AIR4Children: Artificial Intelligence and Robotics for Children. arXiv:2103.07637 [cs.RO] https://github.com/air4children/hri2021