

# AIR4Children: Artificial Intelligence and Robotics for Children

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R. Montenegro, E. Corona, D. Badillo-Pérez, A. Mandujano, L. Vázquez, D. Cruz, **Miguel Xochicale**  
Workshop on Child-Robot Interaction & Child's Fundamental Rights at **#HRI2021**  
March 08, 2021

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## 1. Introduction

1.1. The progress of AI and Robotics (AIR)

1.2. Open source software and hardware in AIR

## 2. AIR4Children

2.1. AIR for Children

2.2. Teaching Materials

## 3. Conclusions and Future work

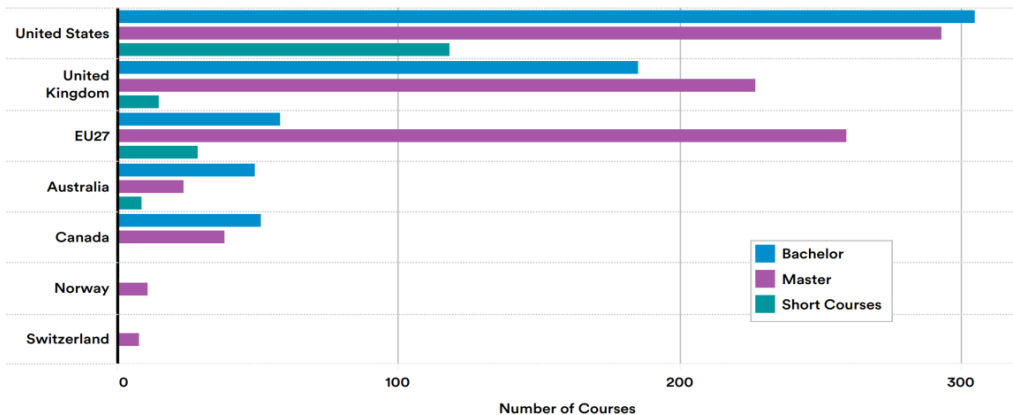
# Introduction

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# The progress of AI and Robotics in USA, China and EU

**NUMBER of SPECIALIZED AI PROGRAMS by GEOGRAPHIC AREA and LEVEL, 2019-20**

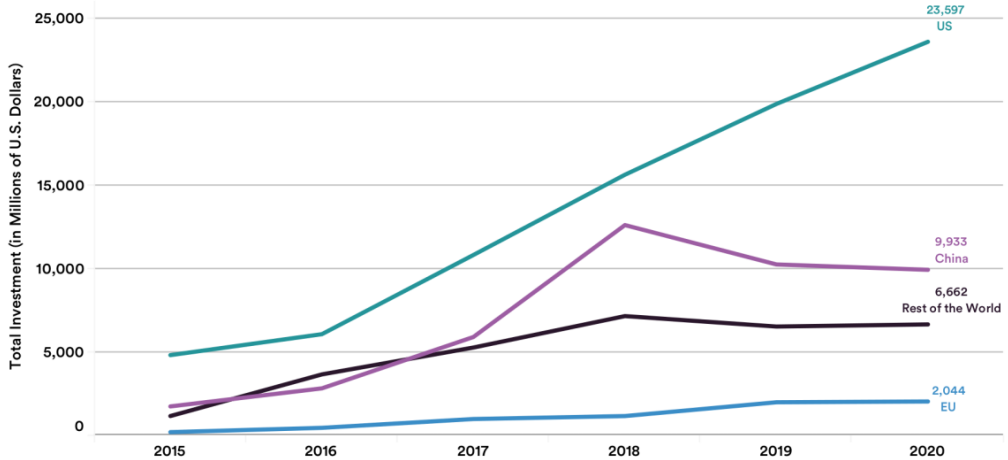
Source: Joint Research Centre, European Commission, 2020 | Chart: 2021 AI Index Report



# The progress of AI and Robotics in USA, China and EU

## PRIVATE INVESTMENT in AI by GEOGRAPHIC AREA, 2015-20

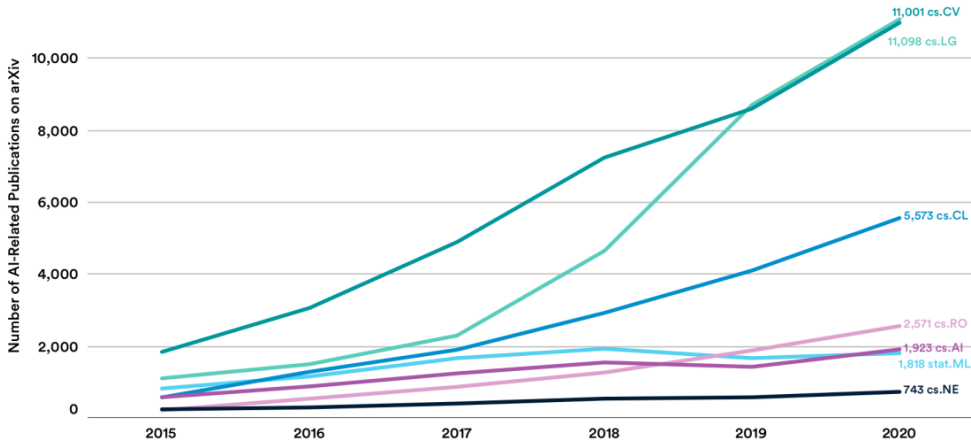
Source: CAPIQ, Crunchbase, and NetBase Quid, 2020 | Chart: 2021 AI Index Report



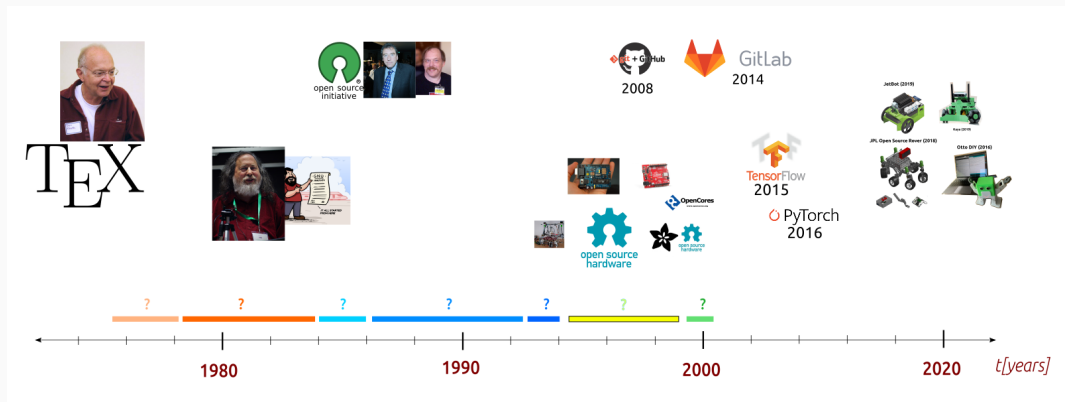
# The progress of AI and Robotics in USA, China and EU

NUMBER of AI-RELATED PUBLICATIONS on ARXIV by FIELD of STUDY 2015-20

Source: arXiv, 2020 | Chart: 2021 AI Index Report



# Open source software and hardware in AIR



AIR4Children

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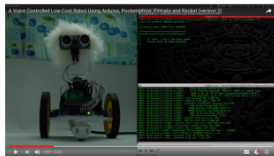
V00-MAY2014



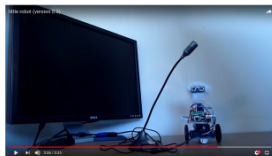
V01-JUNE2014



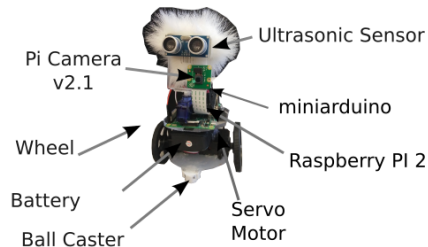
V02-JULY2014



V03-APRIL2016



V04-DEC2017





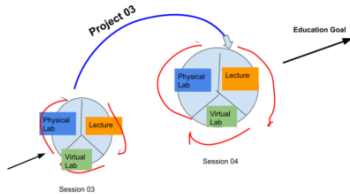
# Montessori



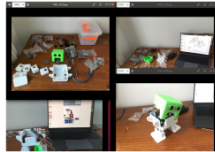
# Teaching materials based on Montessori

\* add image that represents montesory skills

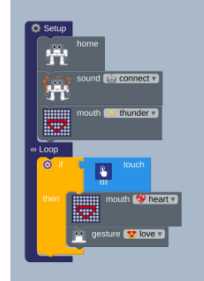
a



b



c



## Conclusions and Future work

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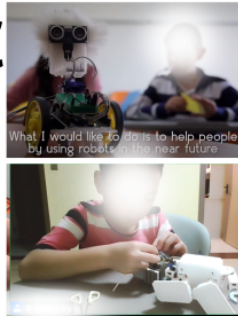
# Conclusions, future work and acknowledgements

Towards a more realistic

- Fun
- Affordable
- Open Accessible
- D



C



# Acknowledgements



(Lastname N. YEAR in journal of...)

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