

Data extraction form

* Required

1. Title of the primary study: *

2. Year *

Mark only one oval.

- ☐ 2007
- ☐ 2008
- ☐ 2009
- ☐ 2010
- ☐ 2011
- ☐ 2012
- ☐ 2013
- ☐ 2014
- ☐ 2015
- ☐ 2016
- ☐ 2017

3. Link: *

4. Source: *

Mark only one oval.

- ☐ ACM Digital Library
- ☐ Elsevier (Science Direct)
- ☐ IEEE Xplore
- ☐ Scopus
- ☐ Web of Science
- ☐ Enginnering Village
- ☐ EI Compendex

QP1. Which educational area the conversational agents have been applied?

5. Knowledge area **Check all that apply.*

- ☐ Art
- ☐ Biology
- ☐ Chemistry
- ☐ Computer Science
- ☐ Education
- ☐ Engineering
- ☐ General / educational purpose
- ☐ Health
- ☐ History
- ☐ Interdisciplinary
- ☐ Linguistics
- ☐ Mathematics
- ☐ Physics
- ☐ Psychology
- ☐ Social sciences
- ☐ Special Education
- ☐ Other: _____

RQ2. How the conversational agents used in educational area have been developed?**6. System Logic ****Check all that apply.*

- ☐ Fuzzy Logic
- ☐ Markov Chain Models
- ☐ Neural Networks
- ☐ Pattern Matching
- ☐ Bag of Words
- ☐ Parsing
- ☐ Decision tree
- ☐ Ontologies
- ☐ Uninformed
- ☐ Other: _____

7. Markup language or programming language **Check all that apply.*

- ☐ AIML / XML
- ☐ Java
- ☐ PHP
- ☐ Node.js
- ☐ Uninformed
- ☐ Other: _____

8. Multimedia resources **Check all that apply.*

- ☐ Text
- ☐ Video
- ☐ Image
- ☐ Voice
- ☐ Audio
- ☐ Uninformed
- ☐ Other: _____

9. Chatbot appearance **Check all that apply.*

- ☐ Full humanoid body 3D
- ☐ Full humanoid body 2D
- ☐ Humanoid head 3D
- ☐ Humanoid head 2D
- ☐ Full character body 3D
- ☐ Full character body 2D
- ☐ Character head 3D
- ☐ Character head 2D
- ☐ No image representation
- ☐ Uninformed
- ☐ Other: _____

10. Educational theories **Check all that apply.*

- ☐ radical behaviourism
- ☐ educational objectives
- ☐ mastery learning
- ☐ multiple intelligences
- ☐ meaningful learning
- ☐ discovery learning
- ☐ scaffolding
- ☐ expansive learning
- ☐ zone of proximal development
- ☐ genetic epistemology
- ☐ constructivism
- ☐ experimental education
- ☐ scientific pedagogy
- ☐ montessori education
- ☐ interpersonal relations
- ☐ critical pedagogy
- ☐ homeschooling, unschooling
- ☐ de-schooling science
- ☐ learning styles
- ☐ experimental learning
- ☐ double loop learning
- ☐ organisational learning
- ☐ text & conversation theory
- ☐ conversation theory
- ☐ situated learning
- ☐ communities of practice
- ☐ collaborative learning
- ☐ Uninformed
- ☐ Other: _____

11. Software Development Process Models **Check all that apply.*

- ☐ Waterfall development
- ☐ Prototyping
- ☐ Rapid application development - RAD
- ☐ Incremental development
- ☐ Spiral development
- ☐ Agile development - XP
- ☐ Agile development - Scrum
- ☐ Participatory design
- ☐ Uninformed
- ☐ Other: _____

RQ3. How the conversational agents used in educational area have been evaluated?**12. Factors used in evaluations ****Check all that apply.*

- ☐ Learning
- ☐ Affectiveness
- ☐ Usability
- ☐ Other: _____

13. Type of research*Check all that apply.*

- ☐ Case study
- ☐ Survey
- ☐ Experiment
- ☐ Uninformed
- ☐ Other: _____

14. Target audience (Tool) **Check all that apply.*

- ☐ Pre-primary education
- ☐ Primary education or first stage of basic education
- ☐ Lower secondary or second stage of basic education
- ☐ (Upper) secondary education
- ☐ Undergraduate student
- ☐ Graduate students
- ☐ Uninformed
- ☐ Other: _____

15. Data collection approach **Check all that apply.*

- ☐ Forms / Questionnaire
- ☐ Interview
- ☐ Note / Learning performance
- ☐ Logs
- ☐ Focus group
- ☐ Uninformed
- ☐ Other: _____

16. Methods of data analysis*Check all that apply.*

- ☐ Inferential statistics
- ☐ Descriptive statistics
- ☐ Uninformed
- ☐ Other: _____

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