

English Proficiency Exam

Universidade Federal de Alenas

Programa de Pós-graduação em Estatística Aplicada e Biometria

* Indica uma pergunta obrigatória

Instructions

Read the text carefully and answer the questions. Don't forget, you must answer only in Portuguese! Answers in English will not be considered.

1. Registration number *

2. E-mail *

Writing a Literature Review Research Paper: A step-by-step approach

IBM. What is artificial intelligence (AI)?

Artificial intelligence leverages computers and machines to mimic the problem-solving and decision-making capabilities of the human mind.

What is artificial intelligence?

While a number of definitions of artificial intelligence (AI) have surfaced over the last few decades, John McCarthy offers the following definition in this 2004 paper (PDF, 127 KB) (link resides outside IBM), "It is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable."

However, decades before this definition, the birth of the artificial intelligence conversation was denoted by Alan Turing's seminal work, "Computing Machinery and Intelligence" (PDF, 92 KB) (link resides outside of IBM), which was published in 1950. In this paper, Turing, often referred to as the "father of computer science", asks the following question, "Can machines think?" From there, he offers a test, now famously known as the "Turing Test", where a human interrogator would try to distinguish between a computer and human text response. While this test has undergone much scrutiny since its publish, it remains an important part of the history of AI as well as an ongoing concept within philosophy as it utilizes ideas around linguistics.

3. 1. In the fragment "[...] a number of definitions of artificial intelligence (AI) have surfaced over the last few decades [...]", how would you translate "surfaced over"?

4. 2. How does John McCarthy define Artificial Intelligence?

5. 3. What does John McCarthy means with "[...] AI does not have to confine itself to methods that are biologically observable"?

6. 4. What is the name of the seminal work on Artificial Intelligence?

7. 5. When was the seminal work on Artificial Intelligence?

8. 6. How Alan Turing is often referred as?

9. 7. Describe the Turing's test.

Stuart Russell and Peter Norvig then proceeded to publish, *Artificial Intelligence: A Modern Approach* (link resides outside IBM), becoming one of the leading textbooks in the study of AI. In it, they delve into four potential goals or definitions of AI, which differentiates computer systems on the basis of rationality and thinking vs. acting.

Human approach:

Systems that think like humans

Systems that act like humans

Ideal approach:

Systems that think rationally

Systems that act rationally

Alan Turing's definition would have fallen under the category of "systems that act like humans."

At its simplest form, artificial intelligence is a field, which combines computer science and robust datasets, to enable problem-solving. It also encompasses sub-fields of machine learning and deep learning, which are frequently mentioned in conjunction with artificial intelligence. These disciplines are comprised of AI algorithms which seek to create expert systems which make predictions or classifications based on input data.

10. 8. What is the one of the textbooks on AI and who are its authors?

11. 9. What are the four potential goals or definitions of AI, which differentiates computer systems on the basis of rationality and thinking vs. acting?

12. 10. In the fragment "*It also encompasses sub-fields of machine learning and deep learning [...]*", how would you translate "*encompasses*"?

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