Semantic Web Services - PS 703655

Assignment 1
Web Science

Deadline: 22.03.2018 08:00

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1 Evolution of the Web (10 points / 0,5-1 pages)

What are the main characteristics of three different eras of the web? Give a concrete example for a Web 3.0 development from your personal experience (e.g. search engines, web sites you visit).

2 Computer Science of the 21st Century (5 points / 0,5-1 pages)

What is the principal difference between computer science of the 20th century and web science? Try to explain based on the characteristics of web science.

3 Data Science, Web and Social Considerations (5 points / 0,5-1 pages)

The recent increase in the success of artificial intelligence is not only because the algorithms, but also the increasing amount of data to train them, mostly powered by web. Many of these AI and machine learning techniques are used

to support important decisions. Can these algorithms be objective? If not, how can the bias occur? Explain your answer with examples.