Summarization Application Testing

File: Artificial_Intelligence_in_the_21st_Century.pdf

Page Count: 19

Model: Trained on ten documents (not including itself)

Keywords: number, AI (Top two words occurring in the document)

Control: Abstract from the paper

ABSTRACT The field of artificial intelligence (AI) has shown an upward trend of growth in the 21st century (from 2000 to 2015). The evolution in AI has advanced the development of human society in our own time, with dramatic revolutions shaped by both theories and techniques. However, the multidisciplinary and fast-growing features make AI a field in which it is difficult to be well understood. In this paper, we study the evolution of AI at the beginning of the 21st century using publication metadata extracted from 9 top-tier journals and 12 top-tier conferences of this discipline. We find that the area is in the sustainable development and its impact continues to grow. From the perspective of reference behavior, the decrease in self-references indicates that the AI is becoming more and more open-minded. The influential papers/researchers/institutions we identified outline landmarks in the development of this field. Last but not least, we explore the inner structure in terms of topics' evolution over time. We have quantified the temporal trends at the topic level and discovered the inner connection among these topics. These findings provide deep insights into the current scientific innovations, as well as shedding light on funding policies.

Occurrences of keywords: 6

Summary using weight system only:

(Summary too long, store as ai21C_weightOnlySummary.txt)

Occurrences of keywords: 115

Summary using weights and word distances:

Artificial Intelligence in the 21st Century:
Similarly, the average number of papers per author|P|p≠P |aup| andand the citations per paper can be calculated as(cid:80)(|cip| represents the total number of citations of the. 1) MEASURING RESEARCH OUTPUTS THROUGHALTIMETRICSThe av
erage number of authors per paper is computed as(cid:80), where |P| is the total number of papers in the. It can be computed as(cid:80), where |R| is the total number of references of thejournals/conferences and |arr | is the number
of author self-references. TABLE 4 lists the top30 researchers who have the highest average number of cita-tions per paper as well as their total number of publicationspublished in top-tier journals and conferences in our dataset.
TABLE 1 and TABLE 2 list the journals/conferences andtheir basic statistics including the total number of papers,the total citations of these papers, the total number of uniqueauthors, the average number of authors per paper, the av
er-age number of published papers per author, and the averagenumber of citations per paper. The sharp growth of citations may be fuelled by twoaspects: the increasing number of references per paper andthe increasing number of public
ations. IDENTIFYING INFLUENTIAL PAPERS/RESEARCHERS/INSTITUTIONSTo quantify papers'/researchers'/institutions' importance inthe development of this era, we use the total number ofcitations to quantify the important entities of AI in
the21st Century. number of publications, and the average number of citationsper paper. Note that the number of researchers representsthe total number of authors who have published papers in. the top journals/conferences, and the tot
al number of publi-cations means the number of publications these researchershave published in the top journals/conferences. 2(a) we can see that the number of AI papershas been increasing roughly linearly in the 21st Century.

Occurrences of Keywords: 25