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Academic information sources and search strategies



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UNIÃO EUROPEIA
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01 Academic & scientific information

02 Information sources

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Academic & scientific information

Academic & scientific information

Published in academic journals and books

Peer review - A process of mediation in the article publication in academic journals that consists of an evaluation of the scientific work by reviewers who are experts in the scientific field.

Formal mechanism for certifying scientific publication



Academic & scientific information



SCIENTIFIC ARTICLE

Primary way for the formal communication of science

Peer review

BOOK | BOOK CHAPTER

Publications with a scientific editor, composed of several parts by different authorsIn-depth analysis of research results

PUBLISHED CONFERENCE PAPERS

Published version of the contents of academic and scientific conferences, usually published in proceedings

Scientific article

Abstract - summarizes the content

Introduction - information about the topic of the article and the specific questions to be addressed in the article

Methodology - how the study was carried out. It should include enough information so that the study can be reproduced.

Results - the results of the study, in the form of tables, charts and graphs

Discussion - indicates what the authors considered significant in their results

Conclusion - the final thoughts and conclusions are presented

Bibliographical references list



Understanding Policy and Technical Aspects of AI-enabled Smart Video Surveillance to Address Public Safety

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Abstract

Recent advancements in artificial intelligence (AI) have seen the emergence of smart video surveillance (SVS) in many practical applications, particularly for building safer and more secure communities in our urban environments. Cognitive tasks, such as identifying objects, recognizing actions, and detecting anomalous behaviors, can produce data capable of providing valuable insights to the community through statistical and analytical tools. However, artificially intelligent surveillance systems design requires special considerations for ethical challenges and concerns. The use and storage of personally identifiable information (PII) commonly pose an increased risk to personal privacy. To address these issues, this paper identifies the privacy concerns and requirements needed to address when designing AI-enabled smart video surveillance. Further, we propose the first end-to-end AI-enabled privacy-preserving smart video surveillance system that holistically combines computer vision analytics, statistical data analytics, cloud-native services, and end-user applications. Finally, we propose quantitative and qualitative metrics to evaluate intelligent video surveillance systems. The system shows the 17.8 frame-per-second (FPS) processing in extreme video scenes. However, considering privacy in designing such a system results in preferring the pose-based algorithm to the pixel-based one. This choice resulted in dropping accuracy in both action and anomaly detection tasks. The results drop from 97.48% to 73.72% in anomaly detection and 96% to 83.07% in the action detection task. On average, the latency of the end-to-end system is 36.1 seconds.

Keywords Video Analytic, Public Safety, Privacy-Preserving, Smart City, Cloud computing, Mobile Application

1 Introduction

The emergence of new technologies and developments in implementing these technologies affected different aspects of our life (Aslania et al., 2016). The emergence

of new concepts such as digital health, smart transportation, and smart city are examples of these effects. These new technologies make the current systems more efficient and provide more opportunities in each ecosystem. For example, using AI in healthcare systems provides new and more efficient healthcare solutions in diagnosing cancer diseases (Huang et al., 2020). Although many of these technologies and new trends are different from a technical perspective, they are similar in their dependence on data. They are dependent on data as input, and they also generate valuable information by digesting the input data, which could be used as inputs in other systems.

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Grey literature



**DOCTORAL THESES AND
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WORKING PAPERS


SCIENTIFIC REPORTS

Information sources



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Information Sources



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Include journals and book chapters from different publishers

Global access point to the published scientific literature

Scientific information

DIGITAL REPOSITORIES

Include journal articles, conference papers, master's dissertations and doctoral theses and documents that result from the research activities of an institution

DATABASE AGGREGATORS

Add multiple databases and other platforms in a single point of search

Information Sources



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Thematic digital libraries



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communication scientifique



Information Sources

Select information sources according to the type of information and the topic or subject area

Always use more than one search platform

The research process is not linear!

Search strategies



Define the keywords

To start a search in any source, is important to **define the topic** and select the **subject terms or keywords**

Search for **synonyms** and variant spellings that can be covered with Booleans

Identify **broad and specific terms** that can broaden or refine the results obtained

Define the keywords

Synonyms and alternative terms

words that have the same or similar meaning to the main keywords

elderly OR “old people”
adolescents OR “young people”

excellent tool for broadening your search

Define the keywords

Controlled vocabulary

Use of controlled subject terms to select alternative terms

Available in thesauri, subject indexes or term lists:

Academic Search Complete (EBSCO)

Business Source Complete (EBSCO) – Economy, Management

ERIC - Education, Psychology

MESH – Health Sciences, Medicine

Define the keywords

Analyze the subjects of the articles and the bibliographical references for further research.

The use of relevant keywords is the path to a successful search.



Define the search strategy

Define the search strategy

Phrase search

To make your search more relevant, you should always use quotation marks for compound terms

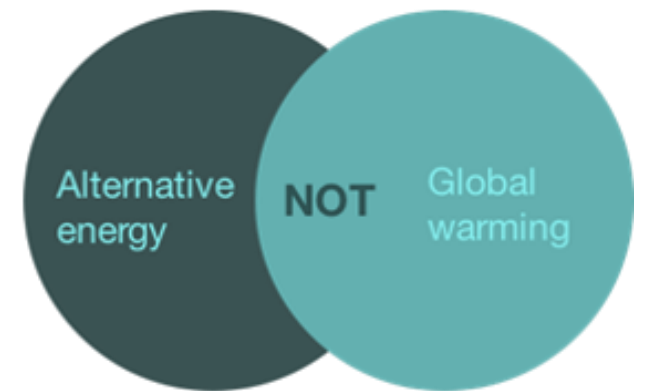
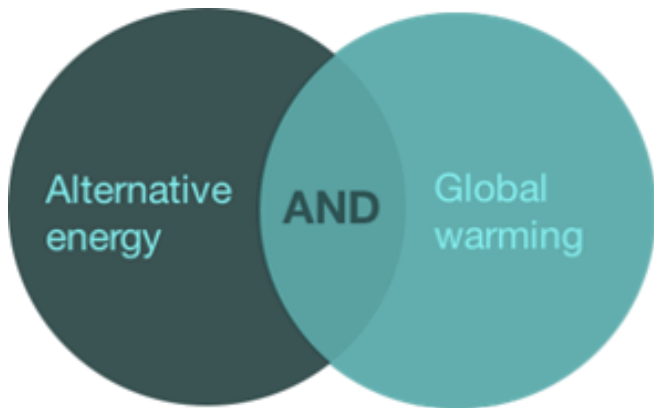
"smart cities"

"neck pain"

Define the search strategy

Boolean operators

AND | OR | NOT



Define the search strategy

Truncation

The * symbol next to the beginning of the word retrieves records with possible different endings:

child* - child; children; childhood

therap* - therapy, therapies, therapist or therapists

Define the search strategy

What to do when I get too many results? How can I narrow down the search?

What to do if I can't find any information or have few results? How can I broaden the search?

Define the search strategy

Refine the results list

By document type | e.g. review articles

Date

Thematic area

Define the search strategy

Find more information in the results list:

Explore the "related records" option

Consult bibliographic reference lists of articles

Check the keywords used and repeat the search with relevant terms

Access the full text of the article