



# Literaturrecherche - Beispielhaftes Vorgehen

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## Die Literatursuche in wissenschaftlichen Datenbanken bietet folgende Vorteile:

- Informationen aus wissenschaftlich validen Quellen zu bekommen
- Die Arten der Quellen können gezielt ausgewählt werden. Es könnte bspw. sinnvoll sein, wenn neue Forschungsthemen gesucht werden, den Fokus auf Forschungsartikel zu legen und nicht auf Lehrbücher
- Die Literatur durch die Verwendung von Suchstrings gezielt einzuschränken

## Zu beachten ist:

- Die verschiedenen Datenbanken fokussieren sich oft auf unterschiedliche Themengebiete bzw. auf unterschiedliche Arten auf Quellen
- AIS eLibrary fokussiert sich stark auf Veröffentlichungen (Forschungsarbeiten und Zeitschriftenartikel), die für die akademische Gemeinschaft im Bereich der IS-Community relevant sind
- ScienceDirect fokussiert sich stark auf Beiträge für die akademische Gemeinschaft in der naturwissenschaftlichen, technischen und medizinischen Forschung



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**1** ((\"Artificial Intelligence\") AND (\"Nature\" OR \"Sustainability\" OR \"environment\" ) )

**2** All Fields

**3** Showing 25 out of 3598 results. Starting at result 1.

**Artificial Intelligence and Business Management: A Scientometric Analysis using CiteSpace** Date: 12/2019  
Authors: Rui Qiu, Shuhua Hou, Zhiyi Meng  
Publication: *ICEB 2019 Proceedings*  
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**1. Definieren von passendem Suchstring**  
((“artificial intelligence”) AND (“nature” OR “sustainability” OR “environment” ))

**2. Auswahl des Suchbereichs**

Wichtig um den Suchbereich sinnvoll einzugrenzen. „All Fields“ bedeute in diesem Fall, dass das ganze Dokument nach dem Suchstring durchsucht wird

**3. Anzahl der Suchergebnisse**

Anhand der Anzahl der Suchergebnisse kann abgeschätzt werden, ob der Suchstring und der Suchbereich sinnvoll gewählt wurden

# AIS eLibrary - Advanced Search



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### Advanced Search ?

abst. **4** ("Artificial Intelligence") AND ("Nature" OR "Sustainability" OR "environment" ) )

Abstract   Title

OR

Peer-reviewed only

Date range:   Limit search to: AIS Electronic Library (AISeL)   Sort by:  Relevance  Publication Date   Format: links

[Basic](#)   **Search**

Searching AIS Electronic Library (AISeL)

Showing 25 out of 57 results. Starting at result 1.

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DISCIPLINE	Publication	Date
<a href="#">Business</a> (11) <a href="#">Management Information Systems</a> (11) <a href="#">E-Commerce</a> (5)	<b>User Interaction with AI-enabled Systems: A Systematic Review of IS Research</b> Authors: Christine Rzepka, Benedikt Berger Publication: <i>ICIS 2018 Proceedings</i> <a href="#">Download</a>	12/2018
KEYWORD	Publication	Date
<a href="#">Artificial Intelligence</a> (6) <a href="#">Artificial intelligence</a> (5) <a href="#">Adoption</a> (3) <a href="#">AI</a> (2)	<b>Artificial Intelligence in Smart Tourism: A Conceptual Framework</b> Authors: Rua-Huan Tsaih, Chih Chun Hsu Publication: <i>ICEB 2018 Proceedings</i> <a href="#">Download</a>	12/2018


## 4. Einschränken der Trefferanzahl

Suche sollte auf bestimmte Abschnitte fokussiert werden. Mögliches Vorgehen: Screening von Titel und Abstrakt (vgl. Präsentation „Einführung in wissenschaftliches Arbeiten“)



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In this journal or book title Year(s)  
2018-2020

Author(s) Author affiliation

1 Volume(s) Issue(s) Page(s)

Title, abstract or author-specified keywords  
(("Artificial Intelligence") AND ("Sustainability" OR "environment" ))

Title  
("Artificial Intelligence")

References

ISSN or ISBN

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## 1. Eingabe des Suchstrings

Differenzierung der Suchbegriffe in den einzelnen Feldern möglich. Der Suchstring wurde für ScienceDirect um eine „OR“ Bedingung verkürzt, da sonst bedingt durch die größere Datenbank, die Menge an Suchergebnisse zu groß ist. Für das Hinzufügen oder Entfernen von Suchbegriffen gibt es keine klare Regel. Hier war es sinnvoll, dass der Suchbegriff „nature“ entfernt wurde, da „environment“ und „sustainability“ den Suchbereich abdecken

## 2. Einschränken des Erscheinungsjahrs

Durch das Einschränken des Erscheinungsjahrs kann die Aktualität der gesuchten Literatur gesichert werden

## 3. Auswahl der Arten von Quellen

Hier kann man durch Kreuze setzen den Article typ gezielt einschränken.

# ScienceDirect - der Export der Dateien ist möglich



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Find articles with these terms

Year: 2018-2020 X  
Title, abstract, keywords: (("Artificial Intelligence")AND("Sustainability" OR "environment")) X  
Title: Artificial Intelligence X  
Advanced search

4 83 results

5 Download selected articles Export

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Research article  
Artificial intelligence for sustainability: Challenges, opportunities, and a research agenda  
International Journal of Information Management, August 2020, ...  
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Rohit Nishant, Mike Kennedy, Jacqueline Corbett  
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Procedia Computer Science, 2020, ...  
First available on 2 October 2020  
Marcel Pikhart  
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A review of research into automation in tourism: Launching the Annals of Tourism Research Curated Collection on Artificial Intelligence and Robotics in Tourism  
Annals of Tourism Research, March 2020, ...  
First available on 14 February 2020  
Iis Tussyadiah  
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Artificial Intelligence as an Important Factor of Sustainable and Crisis-Free Economic Growth  
Procedia Computer Science, 2020, ...  
First available on 15 April 2020  
Rafael Abdulov  
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Research article  
A human cyber physical system framework for operator 4.0 – artificial intelligence symbiosis  
Manufacturing Letters, August 2020, ...  
First available on 16 June 2020  
Alexandros Bousdekis, Dimitris Apostolou, Gregoris Mentzas  
Abstract Export

Research article  
Convergence of blockchain and artificial intelligence in IoT network for the sustainable smart city

## 4. Weitere Einschränkung des Suchbereichs

Der Suchbereich kann flexibel und themenspezifisch weiter eingeschränkt werden

## 5. Download und Exportmöglichkeit der relevanten Dokumente



# Google Scholar - die „einfache“ Alternative ?



Google Scholar

(("Artificial Intelligence") AND ("Sustainability" OR "environment" ))

Artikel

Ungefähr 76.500 Ergebnisse (0,06 Sek.)

Beliebige Zeit  
Seit 2020  
Seit 2019  
Seit 2016  
Zeitraum wählen...  
2018 —   
Suche

Nach Relevanz sortieren  
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Beliebige Sprache  
Seiten auf Deutsch

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**Energy sustainability in smart cities: Artificial intelligence, smart monitoring, and optimization of energy consumption**  
KT Chui, MD Lytras, A Visvizi - Energies, 2018 - mdpi.com  
Energy **sustainability** is one of the key questions that drive the debate on cities' and urban areas development. In parallel, **artificial intelligence** and cognitive computing have emerged as catalysts in the process aimed at designing and optimizing smart services' supply and ...  
☆ 99 Zitiert von: 32 Ähnliche Artikel Alle 10 Versionen

**Role of artificial intelligence in operations environment: a review and bibliometric analysis**  
P Dhamija, S Bag - The TQM Journal, 2020 - emerald.com  
Purpose "Technological intelligence" is the capacity to appreciate and adapt technological advancements, and "**artificial intelligence**" is the key to achieve persuasive operational transformations in majority of contemporary organizational set-ups. Implicitly, **artificial** ...  
☆ 99 Zitiert von: 7 Ähnliche Artikel

**The rise of artificial intelligence under the lens of sustainability**  
J Khakurel, B Penzenstadler, J Porras, A Knutas... - Technologies, 2018 - mdpi.com  
Since the 1950s, **artificial intelligence** (AI) has been a recurring topic in research. However, this field has only recently gained significant momentum because of the advances in technology and algorithms, along with new AI techniques such as machine learning ...  
☆ 99 Zitiert von: 10 Ähnliche Artikel Alle 3 Versionen

**[HTML] A data-driven artificial intelligence model for remote triage in the prehospital environment**  
D Kim, S You, S So, J Lee, S Yook, DP Jang, IY Kim... - PloS one, 2018 - journals.plos.org  
In a mass casualty incident, the factors that determine the survival rate of injured patients are diverse, but one of the key factors is the time for triage. Additionally, the main factor that determines the time of triage is the number of medical personnel. However, when relying on ...  
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➔ Sinnvoll für einen ersten Eindruck und die wichtigsten Artikel

⚡ Jedoch werden eine Vielzahl an Suchergebnissen vorgeschlagen, ohne die Quellen sinnvoll einzugrenzen. Durch die große Anzahl an Suchergebnissen besteht die Gefahr, sich in der Literatursuche zu verlieren und keine sinnvollen Grenzen zu setzen.