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Strategic Insights into Intelligence and Energy Security: A Scientometric Study

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Content

Growth

Natural resource management is imperative for a country's sustained growth and can reduce resource conflicts, improve institutional performance, decrease corruption, and stabilize the political environment.
M. Asif et al. (2020)

Human security

Natural resources are related to human security and harmonious society development, with sustainable development providing an ultimate solution.
Tun et al. (2008)

Natural resources

Local and regional effects of natural resource extraction include the direct impact on local labor markets and welfare, the effects of government spending channels, and regional spillovers.
Cust et al. (2020)

Research Gap

Existing literature might address each domain separately but not explore the overlap in how intelligence frameworks can strengthen energy security.

Previous studies have explored the concepts of intelligence and energy security separately, but little attention has been paid to their intersection in the context of global strategic frameworks.

Research Objective

To conduct a scientometric analysis of the existing literature on intelligence and energy security to identify key trends, influential publications, and collaboration networks

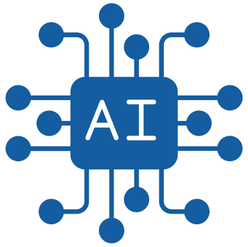
Hypothesis

Intelligence studies contribute significantly to the strategic discourse on energy security, but this contribution is underrepresented in the current literature

Literature Review

The specific cost of electricity production is considerably dependent on factors like interest rates, fuel prices, environmental charges, and their variability in time. (Bartnik et al., 2018)

Energy cost accounting is important for ensuring transparency in energy consumption, losses, and conservation potentials. (Anett Bierer et al., 2012)



Energy-related costs can be significantly reduced if energy consumption is considered in planning the production process. (Zanoni et al., 2014).

Technological progress, including independent innovation and technology import, can improve electricity efficiency, but the rebound effect can affect electricity consumption. (Hongshan Ai et al., 2020).

Methodology

Bibliometric Analysis

Total articles: “*Energy*” AND “ Business *Intelligence*” **264**

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Subject area: *Social science* **165**

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Source type: journal **113**

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Language: English **110**

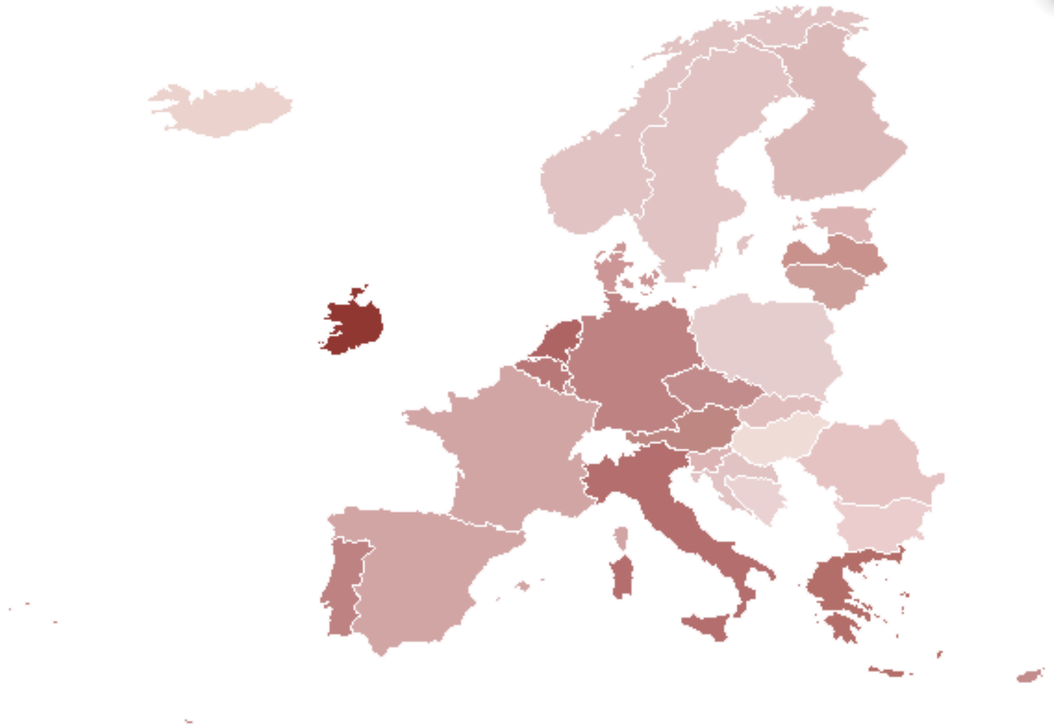
Intensity map

GDP per capita 2023

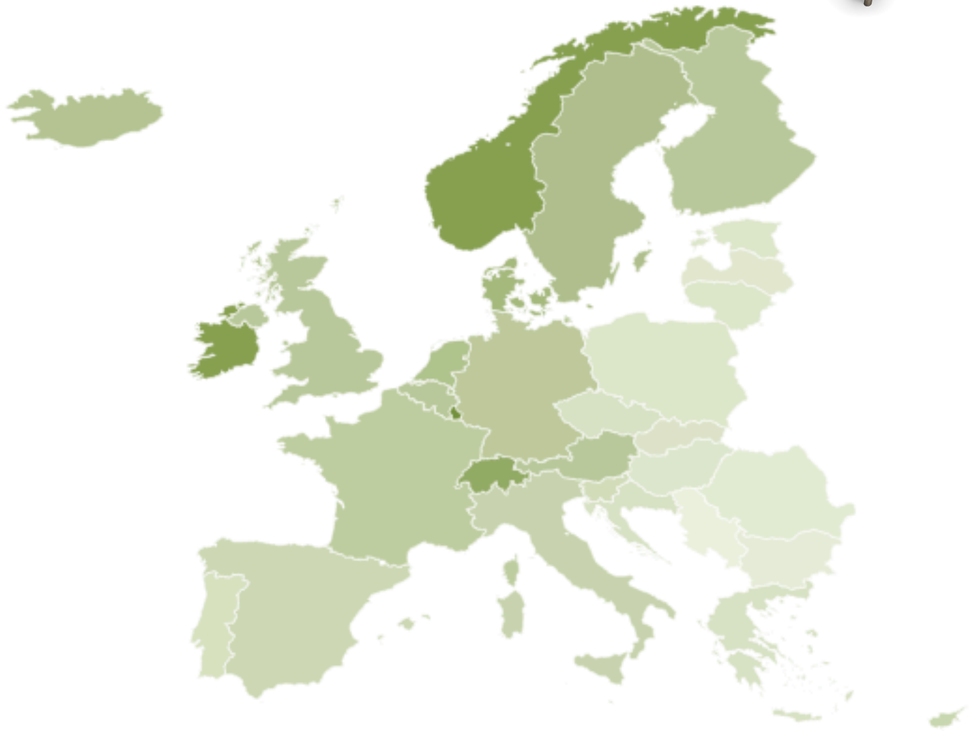
Energy consumption 2023

Main results

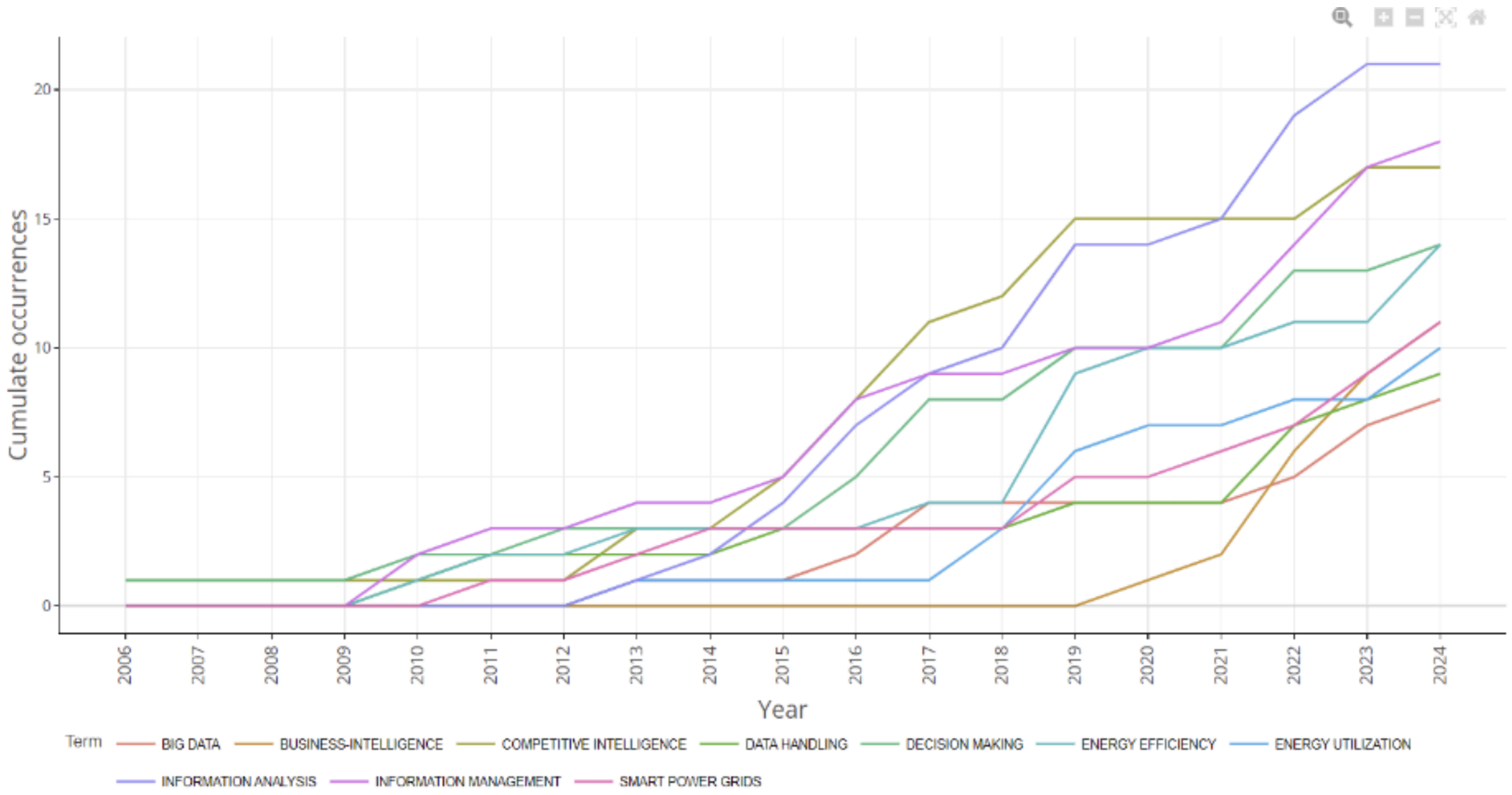
Energy consumption - Consumption of kWh



GDP per Capita in 2023 in Europe

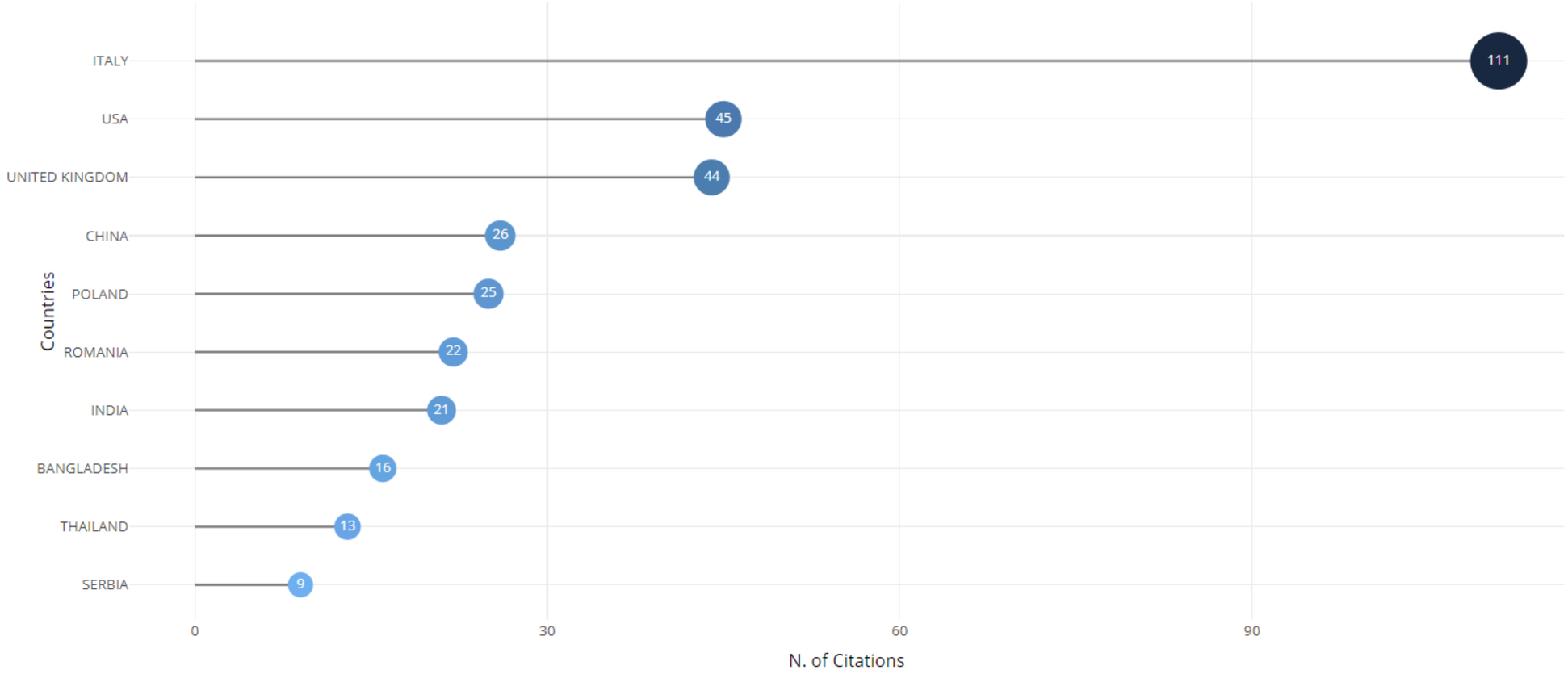


Main results



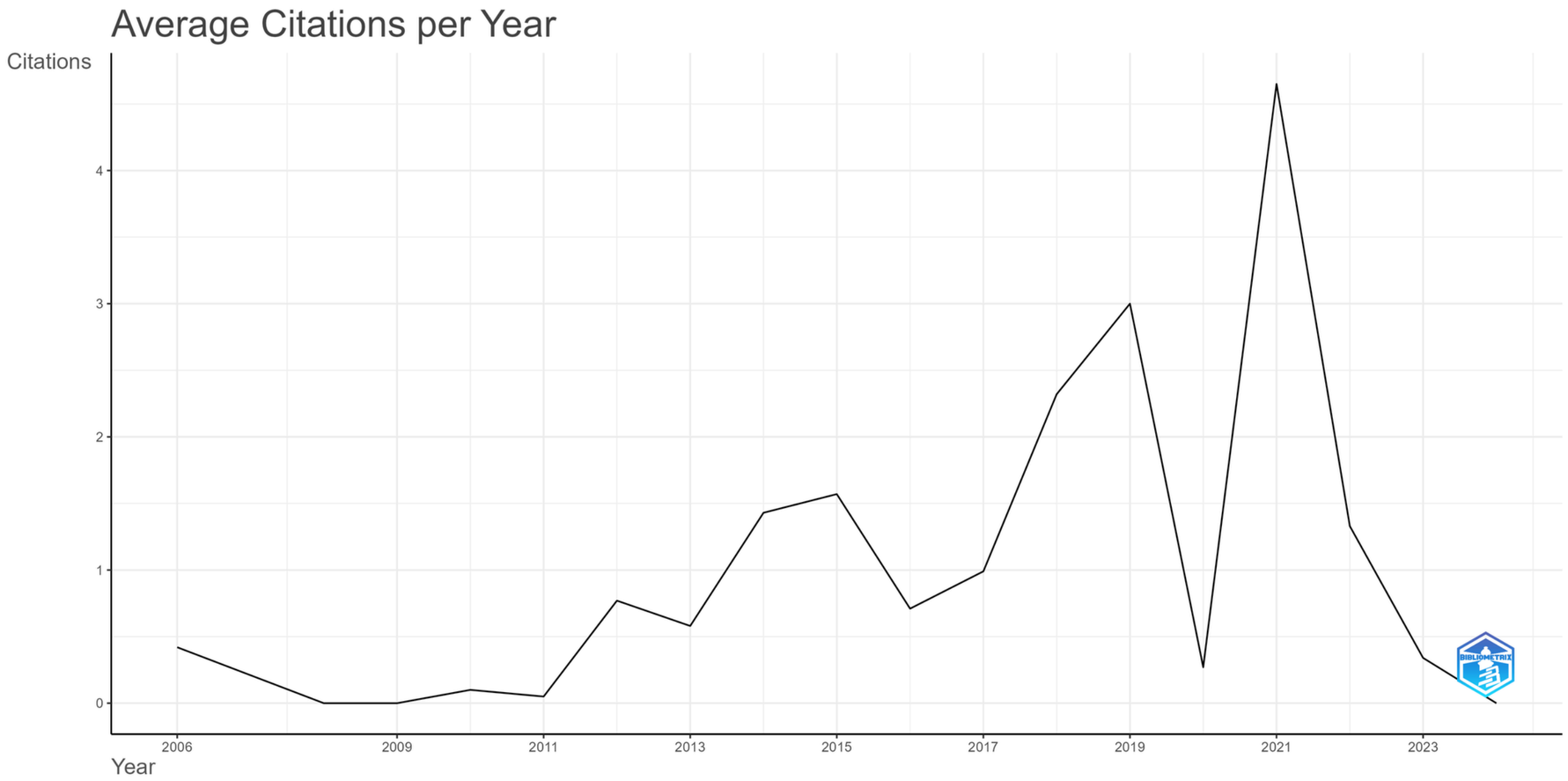
Annual Scientific Production

Main results



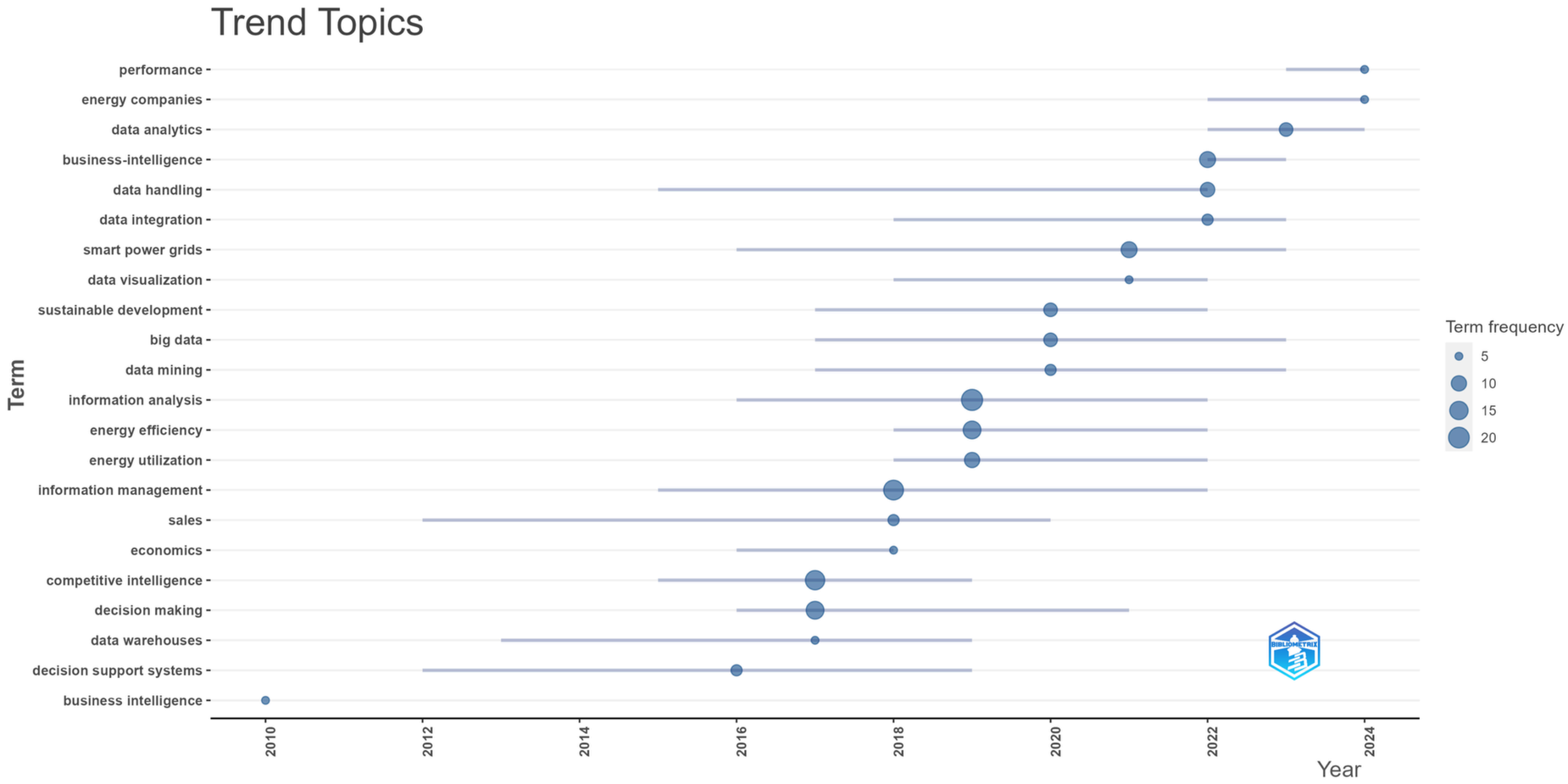
Cited Countries

Main results



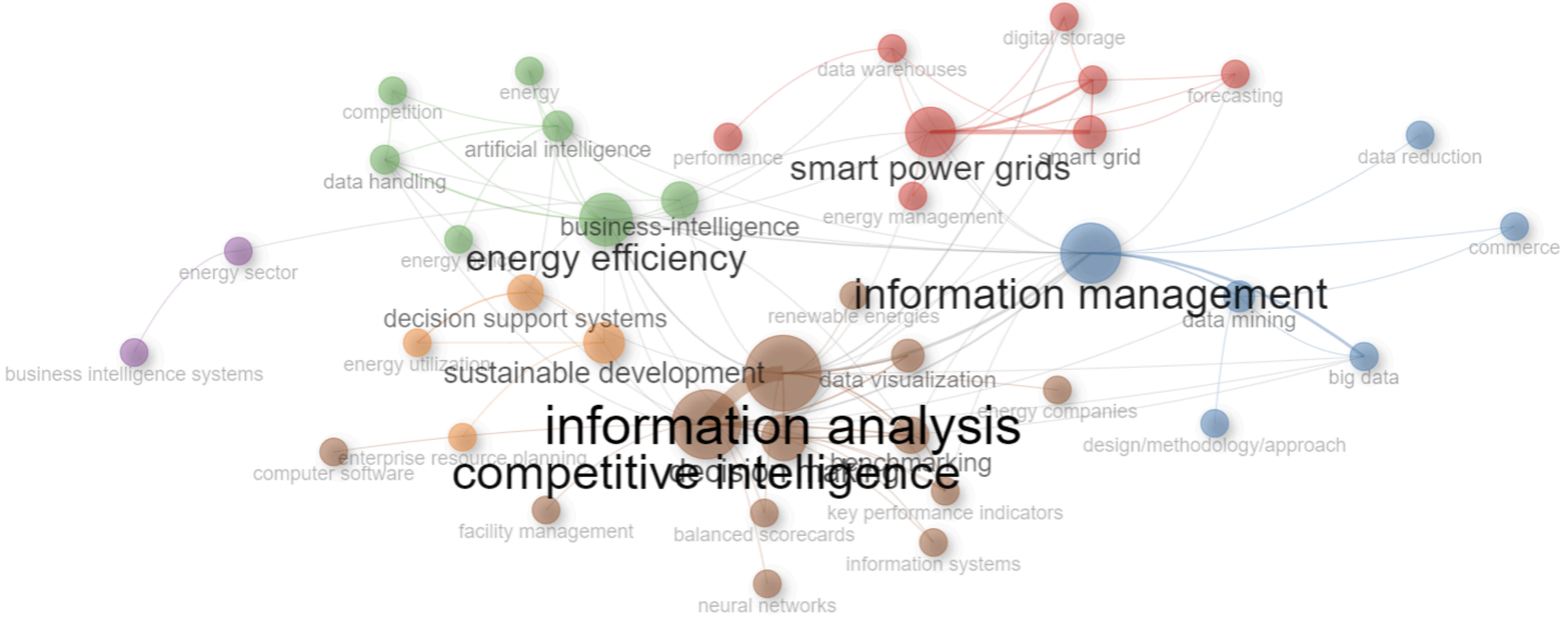
Average Citations per Year

Main results



Main results

Main results



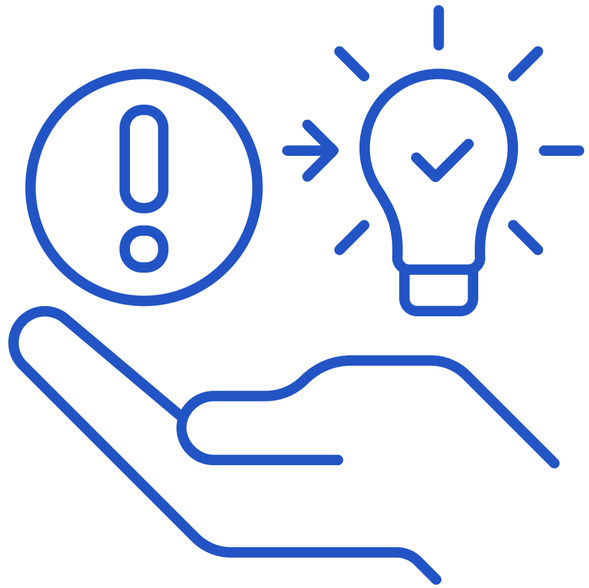
Limitations and future studies

Limitations

- Articles from Scopus
- Language - English
- Just indexed articles
- Selected keywords

Future studies

- A quantitative approach (panel data regression on the EU`s countries)
- Adding manually different articles into the bibliometric analysis



Conclusions

The scientometric analysis reveals that while there is growing attention to the intersection of intelligence and energy security, significant gaps remain

The most used keywords are: Competitive intelligence, Information Management, Information Analysis, and Energy Efficiency

5 significant clusters: Competitive Intelligence, Smart Power Grids, Energy Efficiency, Information Management, Sustainable Development

Strategic collaboration between intelligence and energy experts is crucial to addressing emerging threats, particularly as the global energy landscape becomes increasingly complex

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Thank You!

I am grateful for your focus on this matter.

Time for questions!

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