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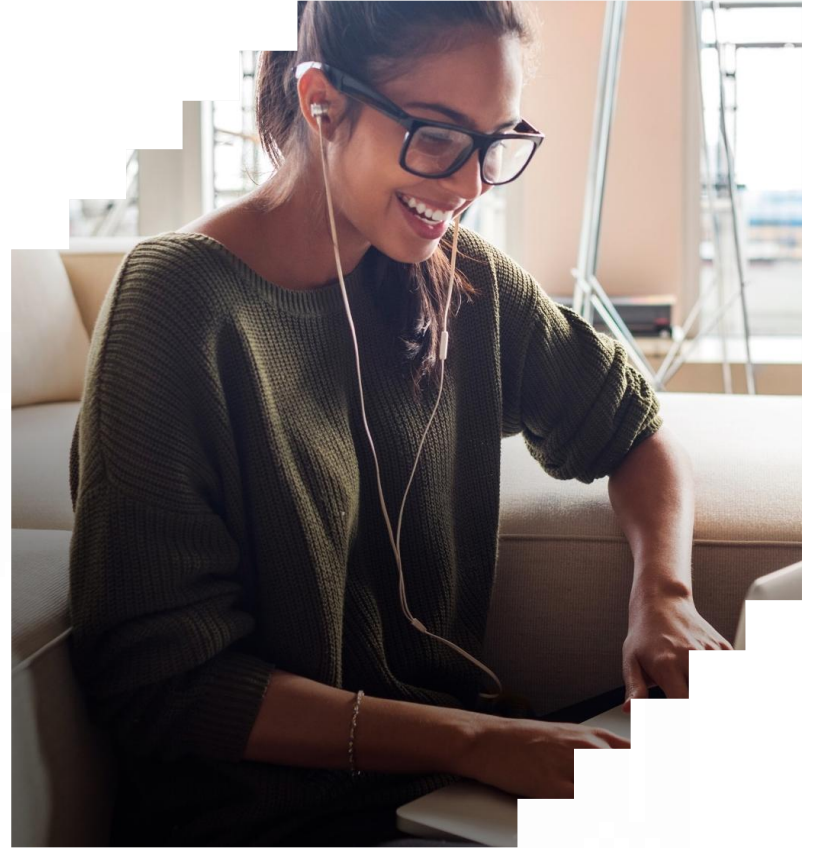
Scopus AI

Think bigger. Move faster.
Act with confidence.

Customer Success

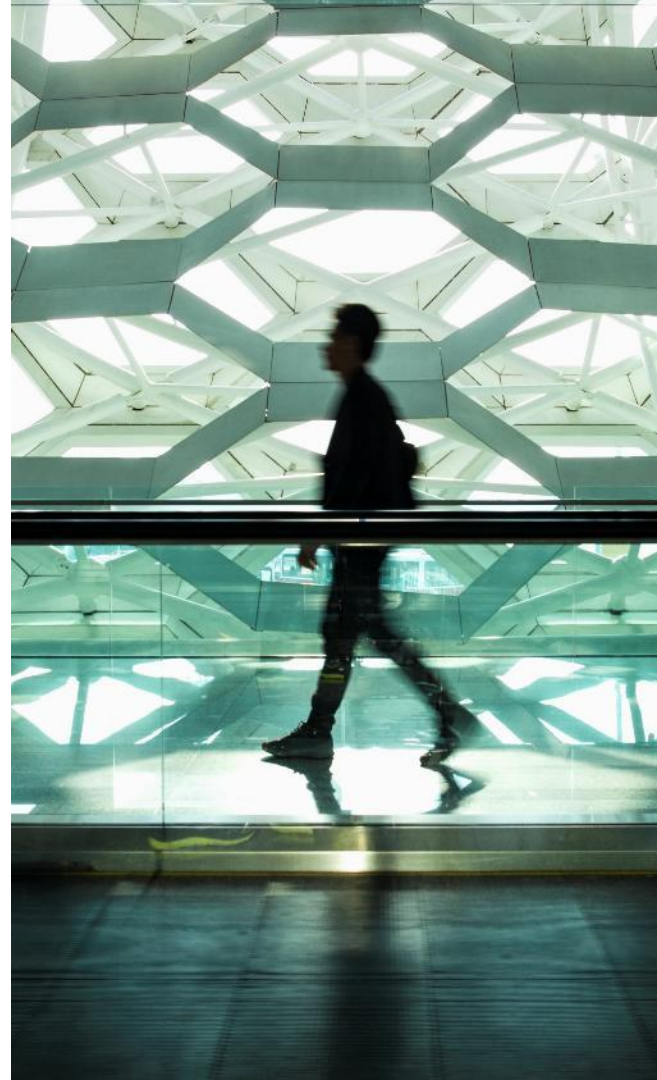


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Agenda

- 1** The potential and pitfalls of AI in academia
- 2** Introducing Scopus AI
- 3** Scopus AI's functions and features
- 4** Digital resources



The potential and pitfalls of AI in academia

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AI has become the *cornerstone of digital transformation*

November
2022

ChatGPT brought **generative AI** and the creative abilities of large language models to public attention.

2023 /24

Use of AI continued to grow, along with the popularity of a powerful new AI technology - **agentic AI**.

Today

The question is no longer “will I use AI?” but “How can my institution leverage it to **advance research excellence?**”

Despite fast AI adoption, many researchers still require support.

58% of researchers now use AI tools in their work, up from 37% in 2024

27% believe they have adequate training in using AI

32% say their institution provides good AI governance

Most (**58%**) say AI tools save them time, but are selective about where they see greatest impact. Researchers currently use AI tools to:

- Find and summarize the latest research (**61%**)
- Perform literature reviews (**51%**)
- Analyze research data (**38%**)
- Draft grant proposals (**41%**)
- Draft research papers or reports (**38%**)



But AI is not without risks – it can damage academic integrity and research excellence

A study published in the Canadian Psychological Association's newsletter *Mind Pad* found that **32.3% of 300 citations generated by a generic AI were hallucinated.**

<https://www.psypost.org/chatgpt-hallucinates-fake-but-plausible-scientific-citations-at-a-staggering-rate-study-finds/>

Home / Exclusive / Artificial Intelligence

ChatGPT hallucinates fake but plausible scientific citations at a staggering rate, study finds

by Eric W. Dolan — April 14, 2024 in Artificial Intelligence

THE BYTE.

FRONT EXPOSED

/ ARTIFICIAL INTELLIGENCE

**PAPER RETRACTED WHEN AUTHORS
CAUGHT USING CHATGPT TO WRITE IT**

by FRANK LANDYMORE

9 23, 6 00 AM EDT

And there are concerns around data leakage

“Companies are desperate for more data to continue training their gen-AI models. So unless it’s otherwise stated in policy, or you have proactively opted out, whatever you’re inputting into a gen-AI tool is fair game for training its model.”

- Adapting to AI: How to understand, prepare for, and innovate in a changing landscape. *The Chronicle of Higher Education*.

<https://store.chronicle.com/products/adapting-to-ai>



Introducing Scopus AI

Think bigger. Move faster. Act with
confidence.

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Scopus AI - *better information*, not just more information

Scopus AI is an intuitive and intelligent research solution that draws exclusively on the curated content in Scopus.

It combines that trusted content with sophisticated AI technologies to **help researchers think bigger, move faster and act with confidence.**



Scopus AI is *purpose built* to work with the trusted content in Scopus



7+ thousand
publishers



29.1+ thousand
active journals



426+ thousand
books



25.3+ million
open access items



Scopus

2.6+ billion
cited references dating back to 1970



102.6+ million
records



21.9+ million
author profiles



94+ thousand
affiliation profiles

Explore. Focus. Advance.

Answer **complex or open questions**

Spark **critical thinking**

Gain a **bird's eye view** of the research landscape

Make **connections** across research fields

Identify **emerging research themes** and **collaborators**

Deepen understanding of a subject

Inform **research ideation** and **planning**

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Scopus AI's features and functionalities

How they work together to deliver on the
promise of AI

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What is included in a Scopus AI response?



Summary

A high-level, fully referenced Summary that includes guidance on the tool's confidence in the response



Expanded summary

An extended summary that uses RAG Fusion to explore queries from multiple perspectives



Go deeper questions

A series of prompts designed to help you continue exploring and learning



Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space



Foundational documents

A list of influential articles that inspired the articles cited in the summaries



Topic experts

The top researchers in your chosen field (based on their volume of related publications)



NEW

Deep Research report

A multi-page analysis with insights and ideas to help you move forward – ideal for complex or open questions



NEW

Conversational Follow-Up

A free text field that enables you to enter follow-up questions and keep digging deeper



NEW

Conversational history

An automated list of all your previous queries so you can resume an existing search at any time



Launched Oct '24

Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity

Simplify research with natural language queries

Copilot is fully transparent
– you can follow each step
it takes in real time


Natural language search is supported by our powerful **Copilot search tool**

Combines **both vector and keyword** search and builds complex Boolean queries for you

Breaks down and **optimizes queries** to improve the specificity of your results

Explore topics and discover relevant references since 2003 [How it works](#)

How can game theory be applied to corporate compliance programs?



How can game theory be applied to corporate compliance programs?

[Hide Copilot steps](#) ^

- 🕒 **Creating plan to answer your query**
- 🕒 **Performing natural language search:**
 - Application of game theory in corporate compliance programs
- 🕒 **Performing keyword search:**
 - ("game theory" OR "strategic interaction" OR "decision theory" OR "interactive decision making") AND ("corporate compliance" OR "business compliance" OR "regulatory compliance" OR "corporate governance") AND ("programs" OR "initiatives" OR "strategies" OR "policies")
- 🕒 **Generating summary**

Your search your way

Type in your query in the **language of your choice**.

Looking for more granularity? You can now instruct Scopus AI to **filter your search** by:

- Country
- Time range
- Document type
- Citation count

Add search parameters when you type in your query; e.g.

“Limit to review papers from European institutions”

“Focus on studies from 2020-2024 with 50+ citations”

“Include only conference papers”

Scopus AI is helping to *democratize access* to knowledge

“As a user experienced with generative AI tools, I found Scopus AI to be a remarkable asset in the research landscape. Its intuitive natural language search capabilities make retrieving relevant information effortless, and the reliability of the results is impressive.”

Songsoo Kim

Librarian

Hanyang University, South Korea

90%

of Scopus AI users say the tool helps them formulate or refine research questions and objectives

Source: 2024-2025 Elsevier user experience research

Choose from two Summaries with *Scopus references*

The **easy-to-digest Summary** provides a concise response to your initial query

The **Expanded summary** uses our proprietary technology to offer more depth and perspectives

* Interface and functionality subject to change

Summary

Climate change poses a significant threat to coffee production, impacting both yields and quality [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) . Here's a breakdown of the specific threats:

Direct and Indirect Impacts:

- Reduction in suitable production areas, lower yields, increased frequency of extreme climate events, and greater incidence of pests and diseases are direct impacts of climate change on coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Changes in rainfall patterns, temperature rise, and erratic weather negatively affect the volume and quality of coffee production [10](#) [11](#) [14](#) [9](#) .

Adaptation Strategies:

- Sustainable management practices, such as agroforestry and altering agrochemical inputs, can enhance the resilience of coffee production to climate change [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Relocation of coffee plantations to more climatically suitable areas, irrigation, and diversification of coffee farms with trees are potential adaptation strategies [12](#) .

Vulnerability of Smallholder Farmers:

- Smallholder coffee farmers, who represent the majority of coffee producers, are highly vulnerable to the impact of climate change due to financial insecurity and limited access to adaptation measures [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

In conclusion, the adverse effects of climate change on coffee production necessitate urgent implementation of adaptation strategies and policy interventions to support the resilience of coffee farmers and ensure the sustainability of coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

References

- 1 Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P, Burgess PJ, Girkin N.T.
Agroecology and Sustainable Food Systems ? 2023
- 2 Coffee in the crosshairs of climate change: agroforestry as abatis
Rice RA.
Agroecology and Sustainable Food Systems ? 2018
- 3 Coffee and chocolate in danger
Gross M.
Current Biology ? 2014

[Show all 14 references](#)

Foundational documents

348 citations
A bitter cup: climate change profile of global production of Arabica and Robusta coffee
C, Bunn, Christian, P.R., Lidzarch, Peter Roman, O., Ovalle-Rivera, Oriana, D., Kirschke, Dieter
Climatic Change ? 2015

Expanded summary

Based on the user's query, I will provide a summary that addresses the impact of climate change on coffee production, including its effects on yield and quality, the specific environmental factors affected, the economic implications, and sustainable agricultural practices to mitigate these impacts.

Impact of Climate Change on Coffee Production:

- Climate change poses a significant threat to coffee production, affecting both yields and quality [1](#) [2](#) [3](#) [4](#) [5](#) .
- Adverse environmental impacts include a reduction in suitable production areas, lower yields, increased intensity and frequency of extreme climate events, and a greater incidence of pests and diseases [1](#) [2](#) [3](#) .
- Changes in temperature, rainfall variability, and soil moisture are key environmental factors affected by climate change, leading to decreased coffee suitability areas, growth, yield, and increased pest and disease pressure [2](#) [4](#) [5](#) .

Economic Implications:

- The economic implications of climate change on the coffee industry are substantial, as coffee production

Continue *digging and exploring*

Scopus AI generates three **Go deeper questions** for each query to help you drill down and broaden your understanding.

And we've introduced **Conversational follow-up** so it's easy to ask your own questions—great for checking on a detail, refining thinking or refocusing your query.

Go deeper

- How does gender influence preferred coping strategies for workplace stress?
- How does gender influence the way individuals perceive and cope with workplace stress?
- What role does gender play in how individuals seek help for workplace stress?

Ask a follow-up question



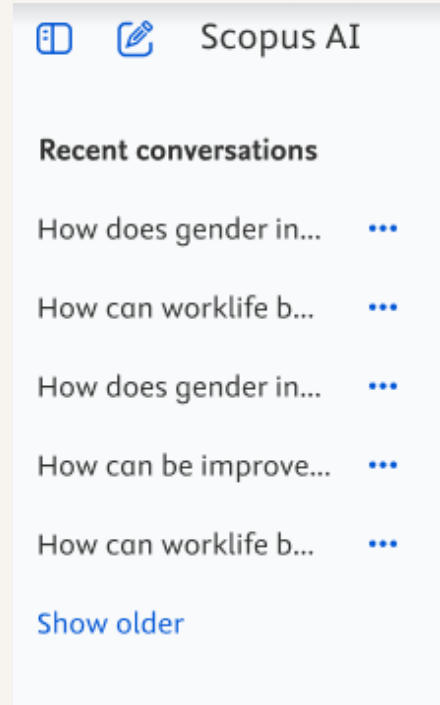
* Interface and functionality subject to change

Never lose track with Conversational history

Automatically saves past conversations to an encrypted and secure server so you can revisit key insights at any time

Enables you to **resume a query** at the point you left it

Provides a useful **overview of your previous topic explorations**



Don't want to save your searches?
No problem – just select our
Temporary conversation mode

See the *bigger picture* with the Concept map

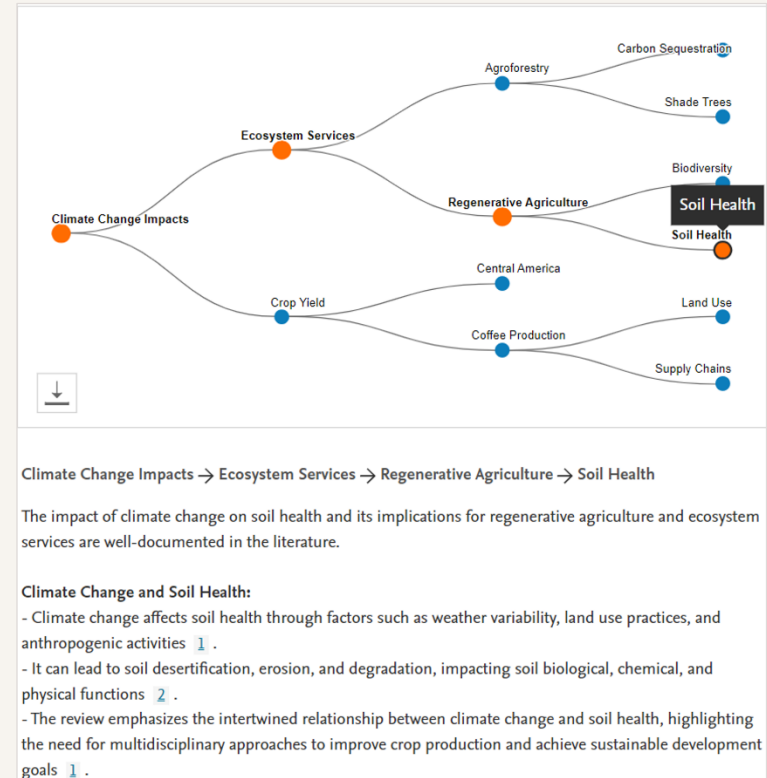
A helpful visual perspective of the **connections in your field**

Gain a **bird's-eye view** of the topic space and its relationship to other research areas

Click on a node to discover **how it relates** to your chosen topic

* Interface and functionality subject to change

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Discover *seminal works and authors*

Foundational documents shows you the papers most commonly cited by the abstracts used to write your summaries.

And Scopus AI draws on the rich Author Profiles in Scopus to highlight **Topic experts**—the most active authors in your chosen field.

* Interface and functionality subject to change

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Foundational documents

189 citations

The ribosomal basis of diamond-blackfan anemia: Mutation and database update

I., Boria, Ilenia, E., Garelli, Emanuela, H.T., Gazda, Hanna T., (...), I., Dianzani, Irma
Human Mutation ↗ 2010

336 citations

Ribosomal Protein L5 and L11 Mutations Are Associated with Cleft Palate and Abnormal Thumbs in Diamond-Blackfan Anemia Patients

H.T., Gazda, Hanna T., M.R., Sheen, Mee Rie, A., Vlachos, Adrianna, (...), A.H., Beggs, Alan H.
American Journal of Human Genetics ↗ 2008

[Show more documents](#)

Topic Experts

[Ramalho, José C. J.C.](#)

3578 citations | 5 matching documents | 41 h-index

José C. Ramalho is an expert in the impact of climate change on coffee production, as evidenced by their research on the biochemical and molecular responses of coffee plants to supra-optimal temperatures and elevated CO₂, as well as their investigation into the effects of drought, warming, and high CO₂ on coffee in the context of future climate change scenarios.

[Van Asten, Piet J.A. P.J.](#)

2875 citations | 3 matching documents | 31 h-index

Piet J.A. Van Asten is an expert in the adaptation strategies of coffee production to climate change. Their work focuses on understanding the critical thresholds for global coffee production under climate change, the influence of vapour pressure deficit on coffee ripening, and the exploration of adaptation strategies for coffee production in the face of climate change using process-based models.

The question is no longer “should I use AI?” but “*which AI can help me achieve this task?*”

Enduring researcher needs



Strategic insights



Complex problem solving



Critical thinking



Creative ideation

How AI is evolving to meet them



Enhancing literature reviews



Richer references and nuanced responses



Uncovering novel ideas and connections



Helping researchers make smarter decisions

Deep Research is an agentic AI tool that aims to *simulate aspects of human thinking*.

Deep Research independently breaks down queries and mines the peer-reviewed content in Scopus for the answers, **interpreting responses and adapting its approach, as required**

Findings – along with the insights drawn from them – are presented in a **nuanced, referenced report**



This is only the beginning

Look out for more Deep Research developments in H2 2025

See our [Deep Research user guide](#)

The anatomy of a Deep Research report

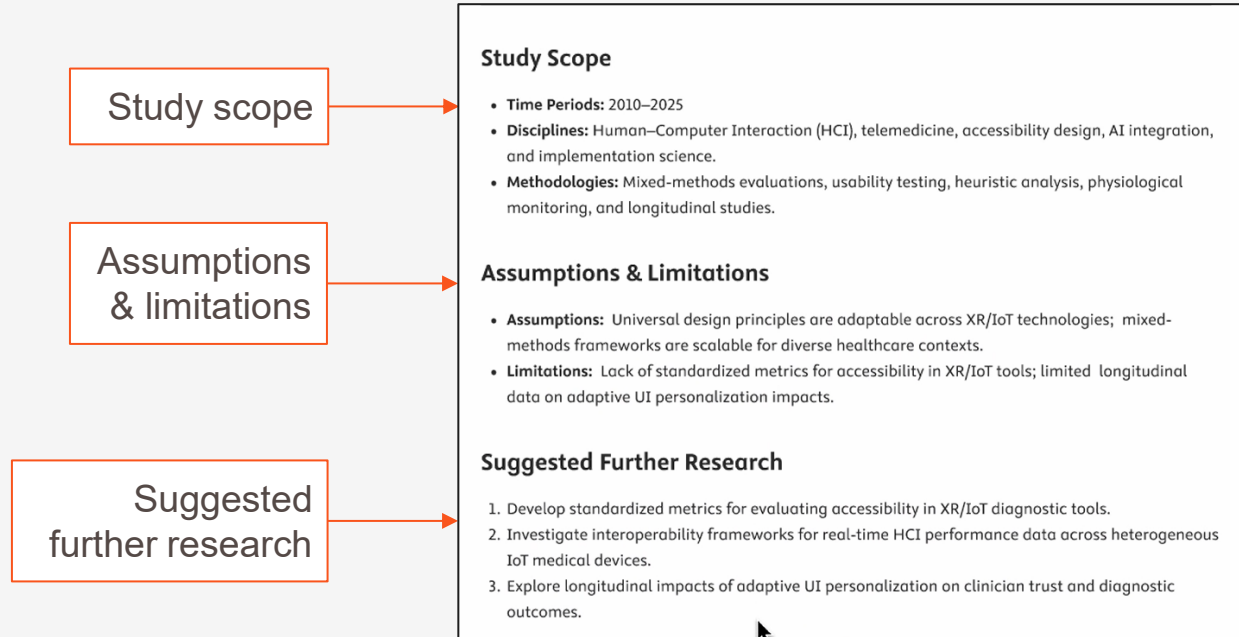
Referenced overview
of key findings

Theme	Key Insights	Supporting Citations
Real-Time Feedback Mechanisms	Adaptive feedback systems improve clinician-patient communication and diagnostic accuracy.	1 2 3 4 5
Clinician Workflow Integration	Seamless integration of AI tools enhances usability and adoption in remote diagnostics.	6 7 8 9 10
Accessibility	Universal design principles ensure inclusivity for users with sensory and motor impairments.	1 2 3
User Interface	Context-adaptive interfaces reduce cognitive load and	1 2 3

Direct answer to query

- Direct Answer**
- Innovative Research Questions:
1. How can multimodal real-time feedback systems (audio, visual, haptic) be optimized to reduce clinician cognitive load while improving diagnostic accuracy in remote settings?
 2. What role do physiological indicators (e.g., heart rate variability, fNIRS) play in adapting HCI interventions to support clinician performance and reduce diagnostic errors?
 3. How can universal design principles be operationalized in XR/IoT-based remote diagnostic tools to ensure accessibility for users with combined sensory and motor impairments?
 4. How does longitudinal use of human-centered decision support systems impact clinician trust, habit formation, and patient adherence in remote care?

The anatomy of a Deep Research report



The anatomy of a Deep Research report

Main body

Introduction

Context and Significance

Remote medical diagnostics have emerged as a cornerstone of modern healthcare, driven by advancements in telemedicine, IoT, and AI technologies. Human-Computer Interaction (HCI) plays a pivotal role in enhancing diagnostic accuracy, clinician workflows, and patient engagement. However, challenges such as cognitive overload, accessibility barriers, and workflow misalignment persist, necessitating innovative research and evaluation methodologies [1](#) [2](#) [3](#)

Scope and Objectives

This report explores innovative research questions and user study methodologies to improve HCI in remote medical diagnostics. Key areas include interface design, real-time feedback mechanisms, accessibility, and clinician workflow integration.

Innovative Research Questions in Human-Computer Interaction for Remote Medical Diagnostics

Novel HCI Challenges and Opportunities in Remote Diagnostics

- **Intelligent Interaction Methods:** How can adaptive multimodal feedback systems reduce cognitive load while enhancing diagnostic precision? [14](#) [15](#) [16](#)
- **AI and IoMT Integration:** What are the best practices for embedding AI-driven decision support tools into clinician workflows? [17](#) [18](#) [19](#)
- **Emerging Technologies:** How can XR and IoT technologies be leveraged to create immersive, accessible diagnostic environments? [20](#) [21](#)

Optimizing User Interface Design for Remote Diagnostic Systems

- **Context-Adaptive Interfaces:** How can dynamic GUIs tailored to clinical contexts improve usability and reduce errors? [22](#) [23](#)
- **Heuristic Evaluations:** What role do heuristic evaluations play in identifying critical usability issues in medical interfaces? [24](#) [25](#)

Synthesis paragraph

The anatomy of a Deep Research report

Discussion and future research directions

Discussion and Future Directions

Bridging Research and Clinical Practice

Human-centered design and stakeholder engagement are critical for translating HCI research into clinical workflows. Iterative co-design processes ensure tools align with clinician and patient needs [47](#) [48](#)

Leveraging Emerging Technologies

AI, IoT, and XR technologies offer transformative potential for remote diagnostics. Addressing challenges in privacy, interoperability, and accessibility will unlock their full capabilities [49](#) [50](#)

Advancing Evaluation Methodologies

Developing robust, scalable, and context-aware user study frameworks is essential for continuous improvement of remote diagnostic systems [51](#) [52](#)

Conclusion

Summary of Contributions

This report identifies innovative research questions and user study methodologies to advance HCI in remote medical diagnostics. Key areas include real-time feedback, accessibility, and workflow integration.

Recommendations for Researchers and Practitioners

1. Prioritize universal design principles in emerging technologies.
2. Employ mixed-methods frameworks for comprehensive usability evaluations.
3. Conduct longitudinal studies to assess sustained impacts on clinician trust and patient outcomes.

[Show all 52 references](#) [Download report](#)

Is this deep research report useful [Yes](#) [No](#)


Conclusion and recommendations

Find the ‘*Goldilocks zone*’ with Emerging themes

Instantly grasp the landscape of any research field

Discover **unexpected connections** between topics

Spot rising and novel themes before they become mainstream

Emerging themes Beta 

Traditional and Non-Pharmacological Remedies for the Common Cold Consistent Theme

The consistent interest in traditional and non-pharmacological remedies for the common cold highlights a significant area of research. This theme encompasses a variety of approaches, including herbal treatments, traditional Chinese medicine, and other natural products. The consistent presence of this theme suggests a sustained interest in exploring alternative and complementary therapies for managing and potentially curing the common cold.

[Show references](#)

Potential Hypotheses:

- [Traditional herbal remedies can provide effective symptom relief and reduce the duration of the common cold](#)
- [Non-pharmacological treatments, such as dietary supplements and lifestyle changes, can enhance immune response and prevent common cold infections](#)

Identify the whitespace that can push your field forward

Consistent theme: Similar level of coverage over the two 12-month periods.

Rising theme: While coverage is similar, the area appears to be growing.

Novel theme: Coverage is relatively low, i.e., this is a new theme, or it is underserved by the current literature.

Sleep Biomarkers and Cognitive Decline Consistent Theme

The relationship between sleep biomarkers and cognitive decline has been a consistent area of research. Studies have focused on identifying reliable sleep parameters that predict cognitive decline and Alzheimer's disease. This theme is significant as it can lead to early detection and intervention strategies for neurodegenerative diseases.

[Show references](#)

Potential Hypotheses:

- Specific sleep biomarkers can predict the onset of Alzheimer's disease years before clinical symptoms appear
- Interventions targeting sleep quality can delay the progression of cognitive decline in at-risk populations

Disparities in Sleep and Cognitive Decline Rising Theme

Recent research has highlighted the disparities in sleep quality and cognitive decline among different racial and ethnic groups. This rising theme is critical for addressing health inequities and developing tailored interventions to improve sleep and cognitive health in diverse populations.

[Show references](#)

Potential Hypotheses:

- Racial and ethnic disparities in sleep quality contribute significantly to differences in cognitive decline rates
- Culturally tailored sleep interventions can reduce cognitive decline disparities among minority populations

Sleep Deprivation and Neuroelectrophysiological Changes Novel Theme

Recent studies have explored the neuroelectrophysiological changes associated with sleep deprivation, revealing its impact on cognitive flexibility and conflict monitoring processes. This novel theme is crucial for developing a deeper understanding of the neural mechanisms affected by sleep deprivation.

[Show references](#)

Potential Hypotheses:

- Sleep deprivation-induced neuroelectrophysiological changes are reversible with targeted cognitive therapies
- Chronic sleep deprivation leads to permanent alterations in neuroelectrophysiological patterns associated with cognitive functions

Digital Resources

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And users can now access
Scopus AI insights, *anytime
and anywhere*

Scopus AI Mobile First is a mobile-optimized version of Scopus AI that works on any device

It offers the same **advanced search, analysis tools, and summary generation** you enjoy on your desktop

The **real-time synchronization** between your mobile and desktop means you can always pick up where you left off

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We continuously enhance Scopus AI based on *user feedback*

There are plenty of further developments in the 2025 pipeline, including:

- Additional **Deep Research** features
- A major upgrade to **Topic Experts**
- Enhanced **multilingual support**
- **More analytics**, e.g., the option to identify and visualize leading authors, institutions and countries associated with research themes.

These will join the raft of improvements already introduced since Scopus AI's launch, e.g.:

- Guidance on Scopus AI's confidence in its response
- The advanced Copilot search tool
- The Emerging themes feature
- Deep Research mode
- The ability to filter search by country, timeframe, etc.

Self-learning and online resources

Welcome to the official blog for Scopus including Scopus AI.

On this blog we will share articles about the Scopus solution, community and users. Scopus product announcement articles will provide information on new features and updates. Profiles will highlight team members who develop and support Scopus as well as Content Selection and Advisory Board (CSAB) board members. Tips and trick articles will share new ways to leverage Scopus on your research journey. We will also share upcoming events including educational webinars and conferences where you can meet with Scopus experts.

We hope you find this content interesting and educational.



<https://blog.scopus.com/>

Scopus Academy

Participate in our self-paced, online introductory Scopus training designed for researchers and students.

[Learn more](#)



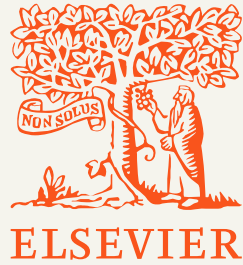
Scopus

Scopus Support Center

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Scopus: A comprehensive abstract and citation database for *impact makers*

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Advancing human progress together