GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN
Institute of Computer Science

Julian Kunkel, Sascha Safenreider
Carolina Ranfla Jimenez

KI-Methoden im akademischen Alltag: KI-gestützte Literaturrecherche

Agenda

1. Einführung in die KI-gestützte Literaturrecherche
2. Übungsphase: Recherche mit KI-Systemen
3. Diskussion im Plenum: Chancen und Risiken

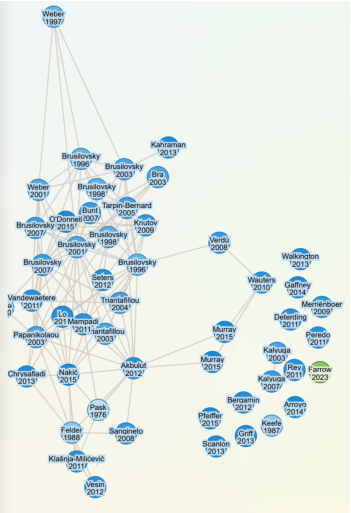
Lernziele

- Verständnis für KI-basierte Recherchetechnologien
- Anwendung typischer Tools in der KI-gestützen Literaturrecherche
- Kritische Bewertung der KI-Ergebnisse

Was bedeutet KI-gestützte Literaturrecherche?

- Einsatz von KI, um wissenschaftliche Literatur zu identifizieren, zusammenzufassen, zu clustern und zu snowballen
- Ziel: Zeitersparnis, Effizienz und kontextuelle Relevanz

Was ist Snowballing?



- Methode zur Erweiterung der Literaturrecherche durch Zitierungen.
- Ziel: Aktuell relevante oder lückenhafte Forschungsbereiche entdecken.

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- Literaturvorschläge auf Fragenbasis
- Kernaussagen und Paper-Extraktion
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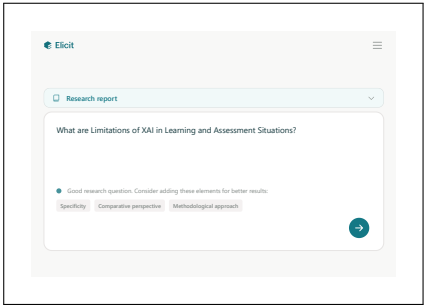

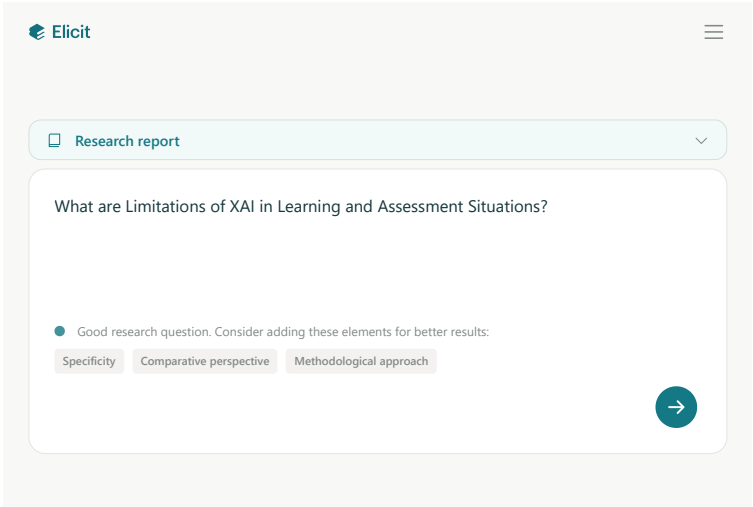
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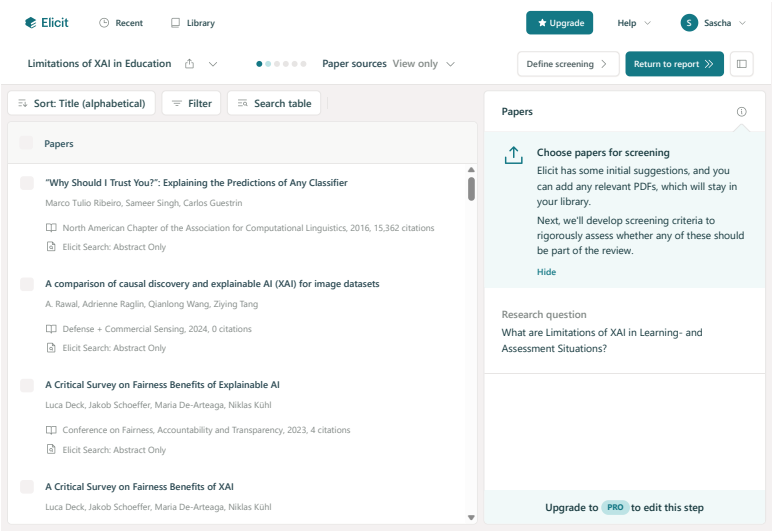
Comparative perspective
Methodological approach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Marco Tulio Ribeiro, Sameer Singh, Carlos Guestrin
North American Chapter of the Association for Computational Linguistics, 2016, 15,362 citations
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A. Rawal, Adrienne Raglin, Qianlong Wang, Ziying Tang
Defense + Commercial Sensing, 2024, 0 citations
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Luca Deck, Jakob Schoeffer, Maria De-Arteaga, Niklas Kühl
Conference on Fairness, Accountability and Transparency, 2023, 4 citations
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A Critical Survey on Fairness Benefits of XAI
Luca Deck, Jakob Schoeffer, Maria De-Arteaga, Niklas Kühl
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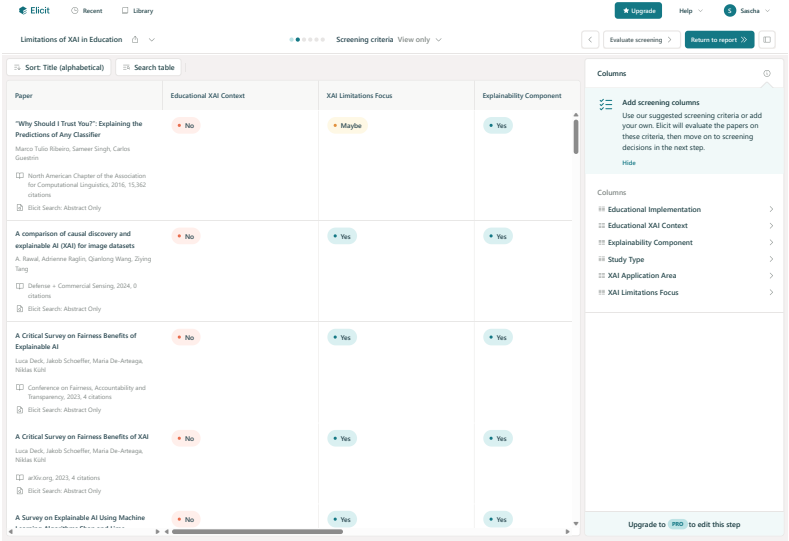
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XAI Limitations Focus
Explainability Component
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Luca Deck, Jakob Schoeffer, Maria De-Arteaga, Niklas Kühl
arXiv.org, 2023, 4 citations
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Yes
A Survey on Explainable AI Using Machine
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Yes
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Educational XAI Context
Explainability Component
Study Type
XAI Application Area
XAI Limitations Focus
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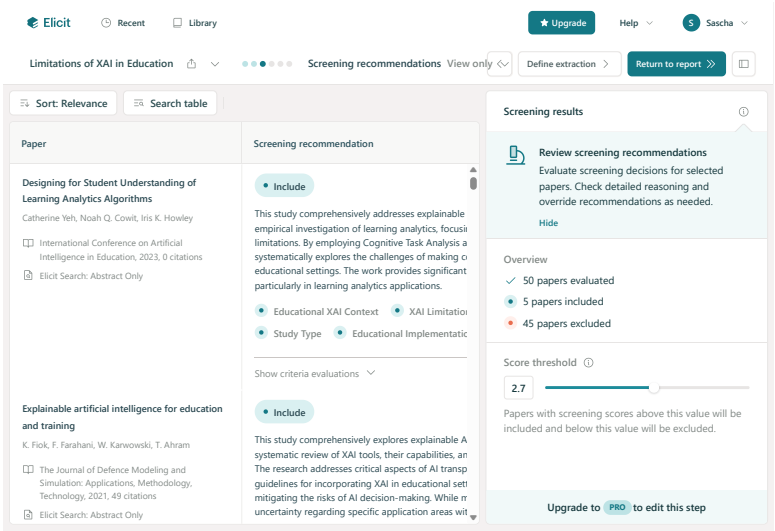
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Screening recommendation
Designing for Student Understanding of Learning Analytics Algorithms
Catherine Yeh, Noah Q. Cowit, Iris K. Howley
International Conference on Artificial Intelligence in Education, 2023, 0 citations
Elicit Search: Abstract Only
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This study comprehensively addresses explainable
empirical investigation of learning analytics, focusi
limitations. By employing Cognitive Task Analysis a
systematically explores the challenges of making c
educational settings. The work provides significant
particularly in learning analytics applications.
Educational XAI Context
XAI Limitatio
Study Type
Educational Implementatic
Show criteria evaluations
Explainable artificial intelligence for education and training
K. Fiok, F. Farahani, W. Karwowski, T. Ahram
The Journal of Defence Modeling and Simulation: Applications, Methodology, Technology, 2021, 49 citations
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This study comprehensively explores explainable A
systematic review of XAI tools, their capabilities, an
The research addresses critical aspects of AI transp
guidelines for incorporating XAI in educational sett
mitigating the risks of AI decision-making. While m
uncertainty regarding specific application areas wit
Screening results
Review screening recommendations
Evaluate screening decisions for selected papers. Check detailed reasoning and override recommendations as needed.
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45 papers excluded
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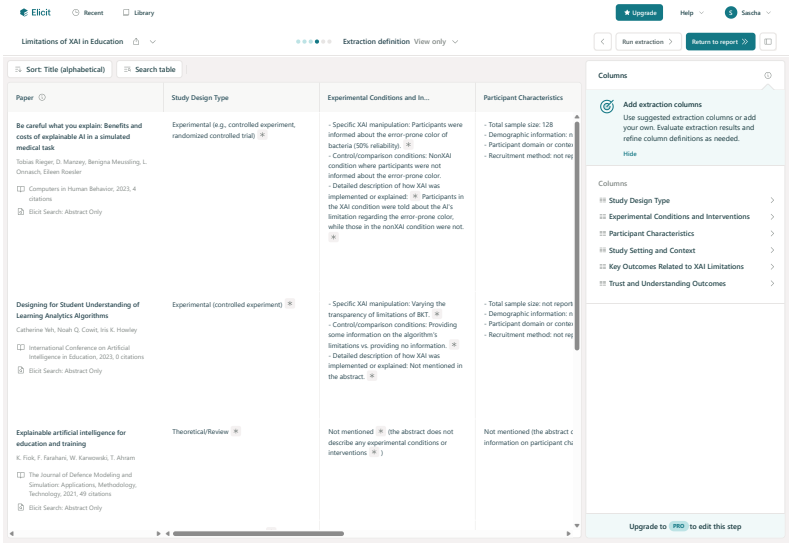
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Experimental Conditions and In...
Participant Characteristics
Be careful what you explain: Benefits and costs of explainable AI in a simulated medical task
Tobias Rieger, D. Manzey, Benigna Meussling, L. Onnasch, Eileen Roesler
Computers in Human Behavior, 2023, 4 citations
Elicit Search: Abstract Only
Experimental (e.g., controlled experiment, randomized controlled trial)
- Specific XAI manipulation: Participants were informed about the error-prone color of bacteria (50% reliability).
- Control/comparison conditions: NonXAI condition where participants were not informed about the error-prone color.
- Detailed description of how XAI was implemented or explained: Participants in the XAI condition were told about the AI's limitation regarding the error-prone color, while those in the nonXAI condition were not.
- Total sample size: 128
- Demographic information:
- Participant domain or
- Recruitment method: not
Designing for Student Understanding of Learning Analytics Algorithms
Catherine Yeh, Noah Q. Cowit, Iris K. Howley
International Conference on Artificial Intelligence in Education, 2023, 0 citations
Elicit Search: Abstract Only
Experimental (controlled experiment)
- Specific XAI manipulation: Varying the transparency of limitations of BKT.
- Control/comparison conditions: Providing some information on the algorithm's limitations vs. providing no information.
- Detailed description of how XAI was implemented or explained: Not mentioned in the abstract.
- Total sample size: not report
- Demographic information:
- Participant domain or
- Recruitment method: not
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Not mentioned (the abstract does not describe any experimental conditions or interventions)
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Study Design Type
Experimental Conditions and Interventions
Participant Characteristics
Study Setting and Context
Key Outcomes Related to XAI Limitations
Trust and Understanding Outcomes
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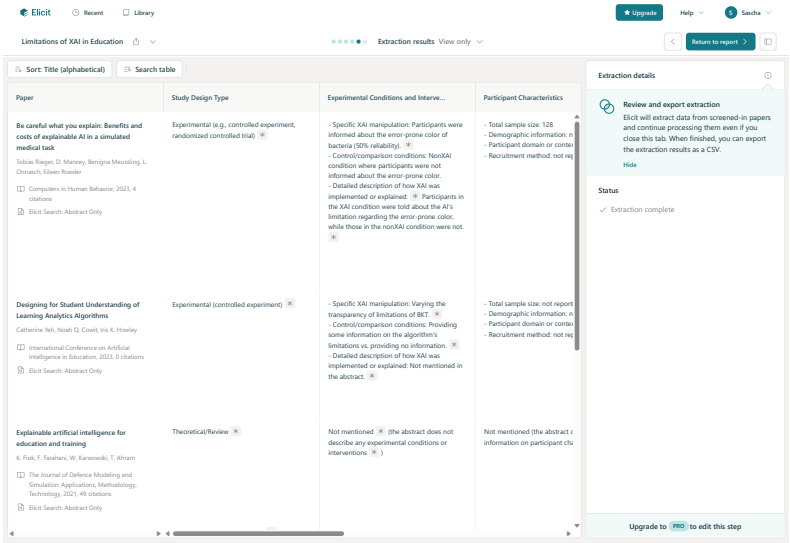
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Participant Characteristics
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- Total sample size: 128
- Demographic information: n
- Participant domain or conte
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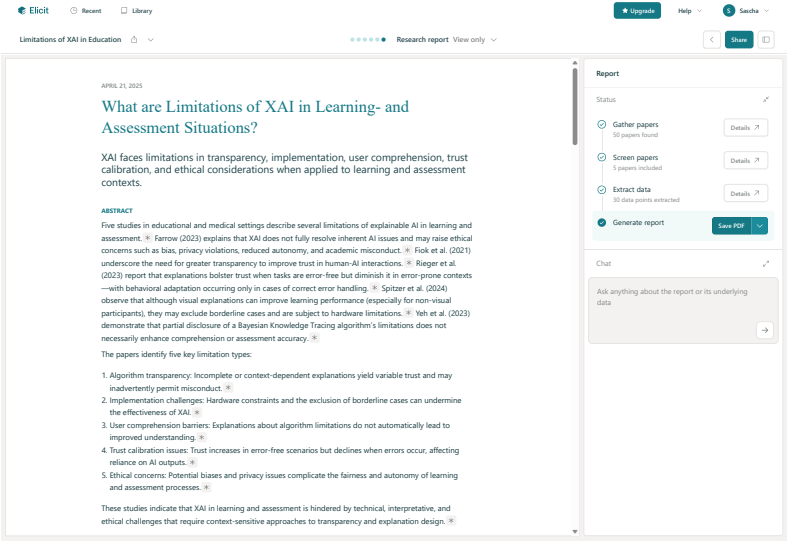
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What are Limitations of XAI in Learning- and Assessment Situations?
XAI faces limitations in transparency, implementation, user comprehension, trust calibration, and ethical considerations when applied to learning and assessment contexts.
ABSTRACT
Five studies in educational and medical settings describe several limitations of explainable AI in learning and assessment. Farrow (2023) explains that XAI does not fully resolve inherent AI issues and may raise ethical concerns such as bias, privacy violations, reduced autonomy, and academic misconduct. Fiok et al. (2021) underscore the need for greater transparency to improve trust in human-AI interactions. Rieger et al. (2023) report that explanations bolster trust when tasks are error-free but diminish it in error-prone contexts—with behavioral adaptation occurring only in cases of correct error handling. Spitzer et al. (2024) observe that although visual explanations can improve learning performance (especially for non-visual participants), they may exclude borderline cases and are subject to hardware limitations. Yeh et al. (2023) demonstrate that partial disclosure of a Bayesian Knowledge Tracing algorithm's limitations does not necessarily enhance comprehension or assessment accuracy.
The papers identify five key limitation types:
1. Algorithm transparency: Incomplete or context-dependent explanations yield variable trust and may inadvertently permit misconduct.
2. Implementation challenges: Hardware constraints and the exclusion of borderline cases can undermine the effectiveness of XAI.
3. User comprehension barriers: Explanations about algorithm limitations do not automatically lead to improved understanding.
4. Trust calibration issues: Trust increases in error-free scenarios but declines when errors occur, affecting reliance on AI outputs.
5. Ethical concerns: Potential biases and privacy issues complicate the fairness and autonomy of learning and assessment processes.
These studies indicate that XAI in learning and assessment is hindered by technical, interpretative, and ethical challenges that require context-sensitive approaches to transparency and explanation design.
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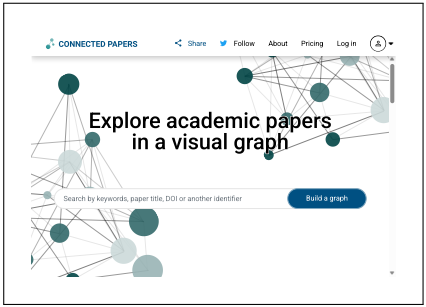

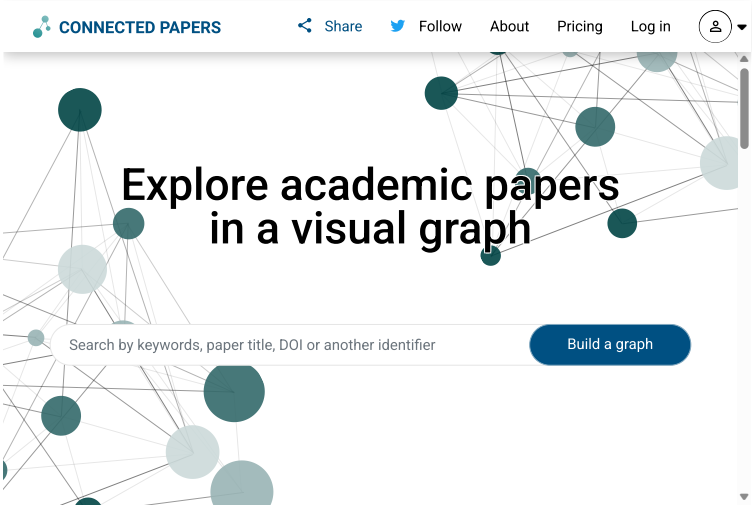
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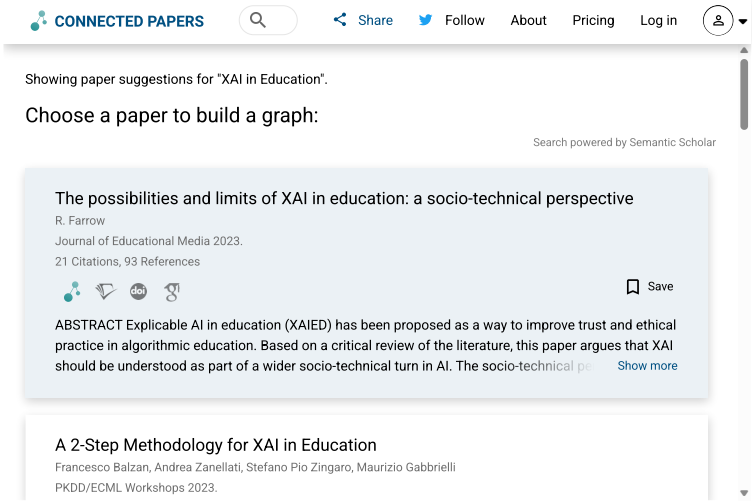
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R. Farrow
Journal of Educational Media 2023.
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ABSTRACT Explicable AI in education (XAIED) has been proposed as a way to improve trust and ethical practice in algorithmic education. Based on a critical review of the literature, this paper argues that XAI should be understood as part of a wider socio-technical turn in AI. The socio-technical pe
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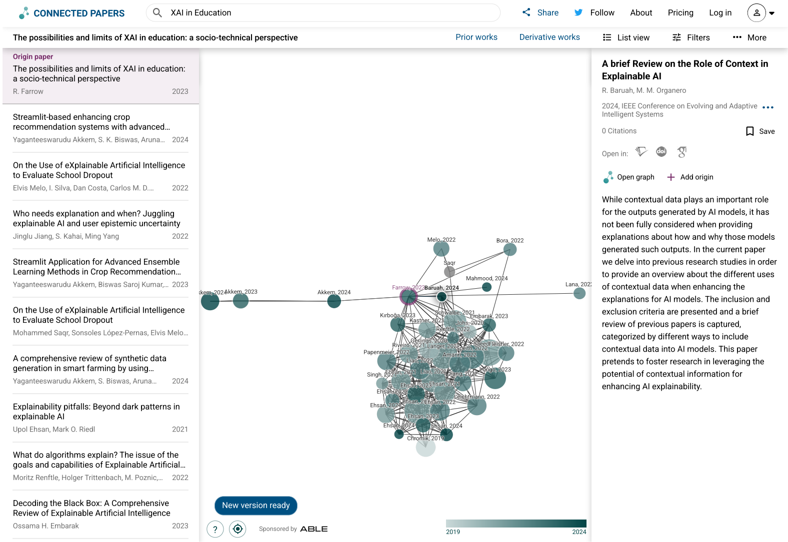
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A brief Review on the Role of Context in Explainable AI
R. Baruah, M. M. Organero
2024, IEEE Conference on Evolving and Adaptive Intelligent Systems
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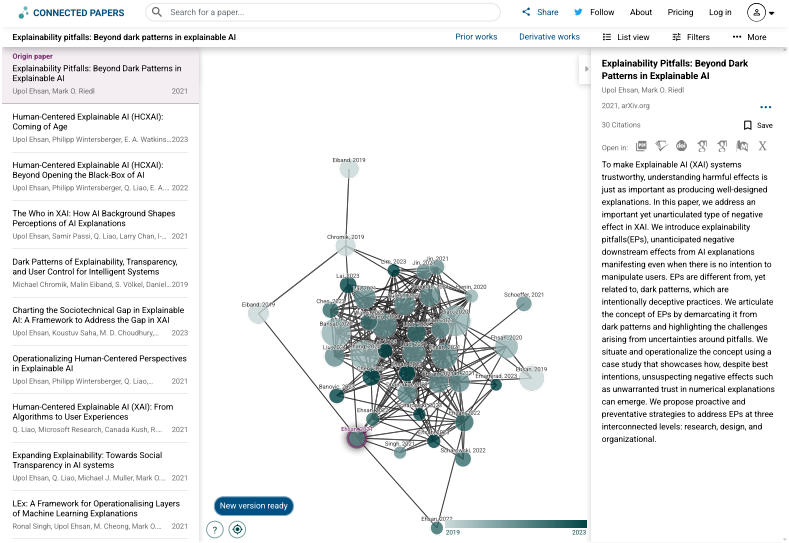
While contextual data plays an important role for the outputs generated by AI models, it has not been fully considered when providing explanations about how and why those models generated such outputs. In the current paper we delve into previous research studies in order to provide an overview about the different uses of contextual data when enhancing the explanations for AI models. The inclusion and exclusion criteria are presented and a brief review of previous papers is captured, categorized by different ways to include contextual data into AI models. This paper pretends to foster research in leveraging the potential of contextual information for enhancing AI explainability.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Human-Centered Explainable AI (HCXAI): Beyond Opening the Black-Box of AI
Upol Ehsan, Philipp Wintersberger, Q. Liao, E. A... 2022
The Who in XAI: How AI Background Shapes Perceptions of AI Explanations
Upol Ehsan, Samir Passi, Q. Liao, Larry Chan, I-... 2021
Dark Patterns of Explainability, Transparency, and User Control for Intelligent Systems
Michael Chromik, Malin Eiband, S. Völkel, Daniel... 2019
Charting the Sociotechnical Gap in Explainable AI: A Framework to Address the Gap in XAI
Upol Ehsan, Koustuv Saha, M. D. Choudhury,... 2023
Operationalizing Human-Centered Perspectives in Explainable AI
Upol Ehsan, Philipp Wintersberger, Q. Liao,... 2021
Human-Centered Explainable AI (XAI): From Algorithms to User Experiences
Q. Liao, Microsoft Research, Canada Kush, R... 2021
Expanding Explainability: Towards Social Transparency in AI systems
Upol Ehsan, Q. Liao, Michael J. Muller, Mark O... 2021
LEx: A Framework for Operationalising Layers of Machine Learning Explanations
Ronal Singh, Upol Ehsan, M. Cheong, Mark O... 2021
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Explainability Pitfalls: Beyond Dark Patterns in Explainable AI
Upol Ehsan, Mark O. Riedl
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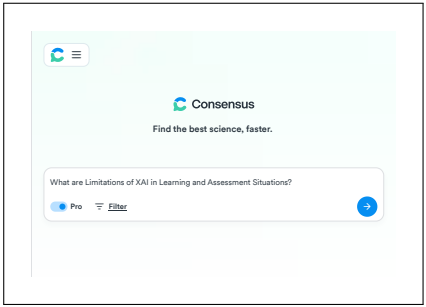
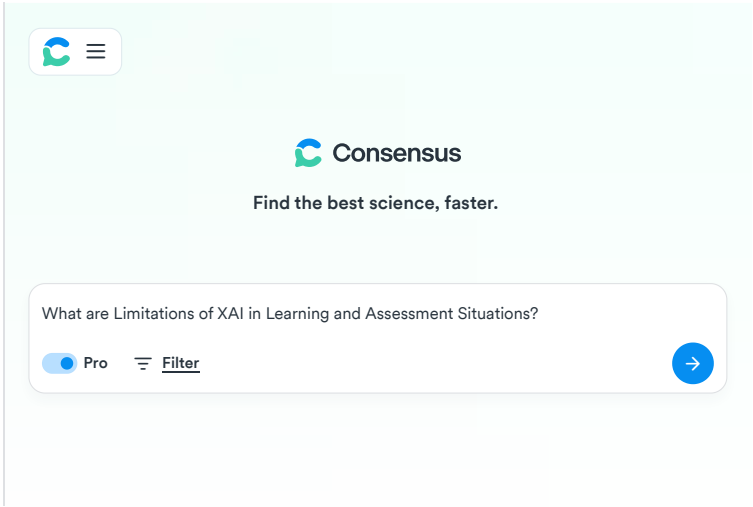
To make Explainable AI (XAI) systems trustworthy, understanding harmful effects is just as important as producing well-designed explanations. In this paper, we address an important yet unarticulated type of negative effect in XAI. We introduce explainability pitfalls(EPs), unanticipated negative downstream effects from AI explanations manifesting even when there is no intention to manipulate users. EPs are different from, yet related to, dark patterns, which are intentionally deceptive practices. We articulate the concept of EPs by demarcating it from dark patterns and highlighting the challenges arising from uncertainties around pitfalls. We situate and operationalize the concept using a case study that showcases how, despite best intentions, unsuspecting negative effects such as unwarranted trust in numerical explanations can emerge. We propose proactive and preventative strategies to address EPs at three interconnected levels: research, design, and organizational.

Consensus (https://consensus.app/)

- KI-gestützte Antwort auf Forschungsfragen
- Extrahiert Aussagen direkt aus Studien
- Ideal für schnelle, evidenzbasierte Übersicht
- Fokus auf wissenschaftlich belegte Aussagen

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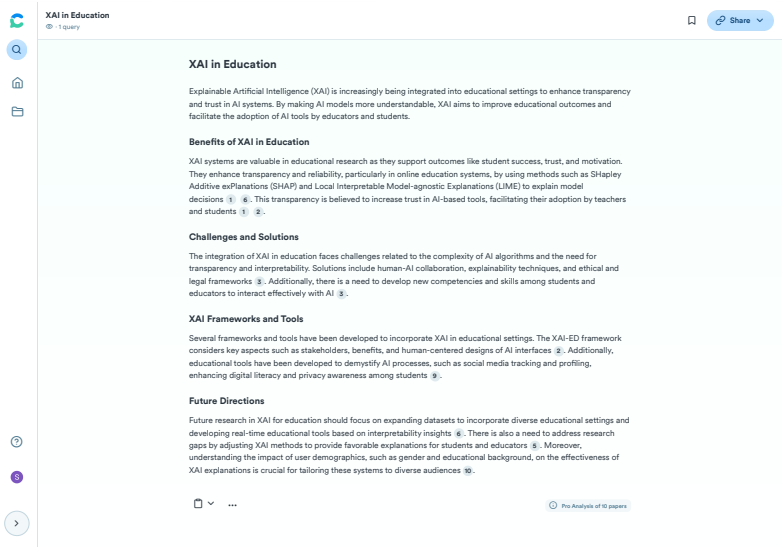
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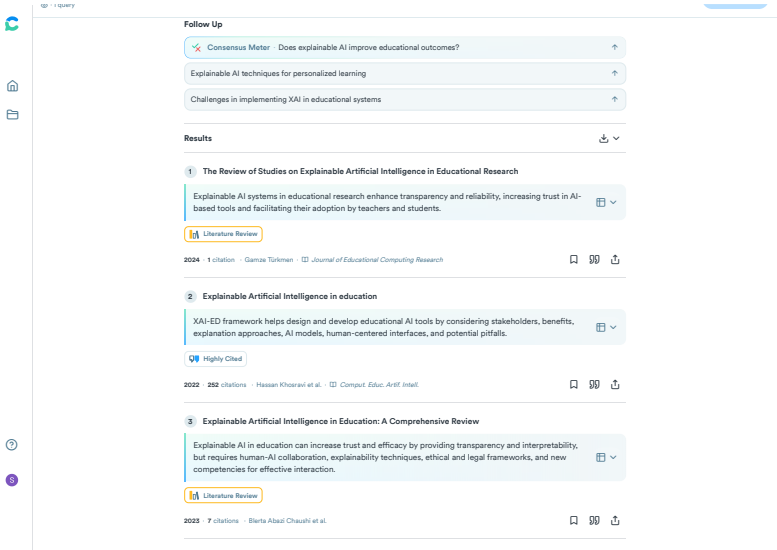
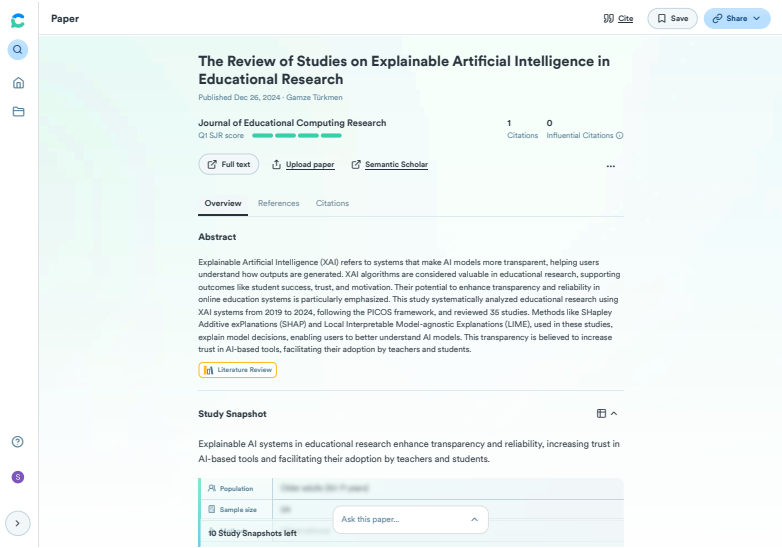
XAI in Education
Explainable Artificial Intelligence (XAI) is increasingly being integrated into educational settings to enhance transparency and trust in AI systems. By making AI models more understandable, XAI aims to improve educational outcomes and facilitate the adoption of AI tools by educators and students.
Benefits of XAI in Education
XAI systems are valuable in educational research as they support outcomes like student success, trust, and motivation. They enhance transparency and reliability, particularly in online education systems, by using methods such as SHapley Additive exPlanations (SHAP) and Local Interpretable Model-agnostic Explanations (LIME) to explain model decisions 1 4. This transparency is believed to increase trust in AI-based tools, facilitating their adoption by teachers and students 1 2.
Challenges and Solutions
The integration of XAI in education faces challenges related to the complexity of AI algorithms and the need for transparency and interpretability. Solutions include human-AI collaboration, explainability techniques, and ethical and legal frameworks 3. Additionally, there is a need to develop new competencies and skills among students and educators to interact effectively with AI 3.
XAI Frameworks and Tools
Several frameworks and tools have been developed to incorporate XAI in educational settings. The XAI-ED framework considers key aspects such as stakeholders, benefits, and human-centered designs of AI interfaces 2. Additionally, educational tools have been developed to demystify AI processes, such as social media tracking and profiling, enhancing digital literacy and privacy awareness among students 9.
Future Directions
Future research in XAI for education should focus on expanding datasets to incorporate diverse educational settings and developing real-time educational tools based on interpretability insights 6. There is also a need to address research gaps by adjusting XAI methods to provide favorable explanations for students and educators 5. Moreover, understanding the impact of user demographics, such as gender and educational background, on the effectiveness of XAI explanations is crucial for tailoring these systems to diverse audiences 10.
Pro Analysis of 10 papers


Follow Up
Consensus Meter · Does explainable AI improve educational outcomes?
Explainable AI techniques for personalized learning
Challenges in implementing XAI in educational systems
Results
1 The Review of Studies on Explainable Artificial Intelligence in Educational Research
Explainable AI systems in educational research enhance transparency and reliability, increasing trust in AI-based tools and facilitating their adoption by teachers and students.
Literature Review
2024 · 1 citation · Gamze Türkmen · Journal of Educational Computing Research
2 Explainable Artificial Intelligence in education
XAI-ED framework helps design and develop educational AI tools by considering stakeholders, benefits, explanation approaches, AI models, human-centered interfaces, and potential pitfalls.
Highly Cited
2022 · 252 citations · Hassan Khosravi et al. · Comput. Educ. Artif. Intell.
3 Explainable Artificial Intelligence in Education: A Comprehensive Review
Explainable AI in education can increase trust and efficacy by providing transparency and interpretability, but requires human-AI collaboration, explainability techniques, ethical and legal frameworks, and new competencies for effective interaction.
Literature Review
2023 · 7 citations · Blerta Abazi Chaushi et al.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Abstract
Explainable Artificial Intelligence (XAI) refers to systems that make AI models more transparent, helping users understand how outputs are generated. XAI algorithms are considered valuable in educational research, supporting outcomes like student success, trust, and motivation. Their potential to enhance transparency and reliability in online education systems is particularly emphasized. This study systematically analyzed educational research using XAI systems from 2019 to 2024, following the PICOS framework, and reviewed 36 studies. Methods like SHapley Additive exPlanations (SHAP) and Local Interpretable Model-agnostic Explanations (LIME), used in these studies, explain model decisions, enabling users to better understand AI models. This transparency is believed to increase trust in AI-based tools, facilitating their adoption by teachers and students.
Literature Review
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Explainable AI systems in educational research enhance transparency and reliability, increasing trust in AI-based tools and facilitating their adoption by teachers and students.
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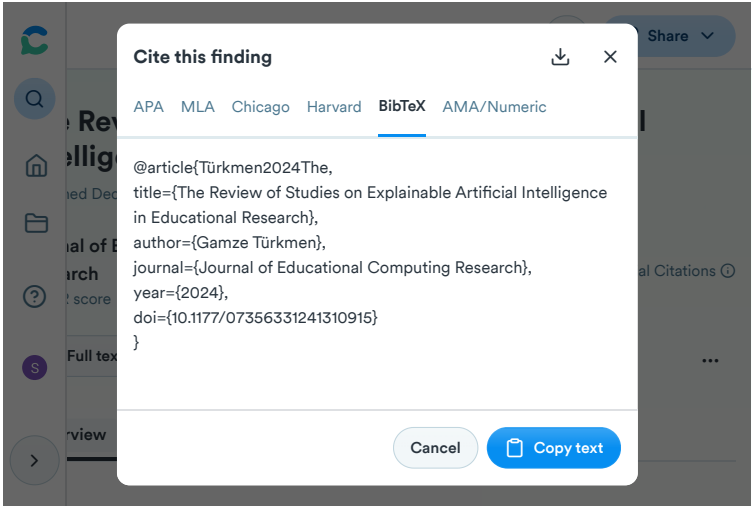
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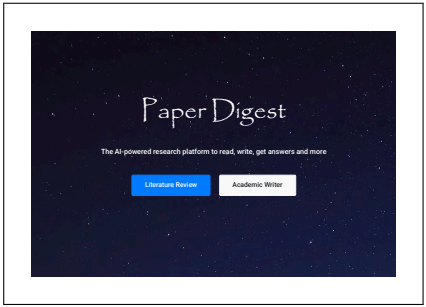

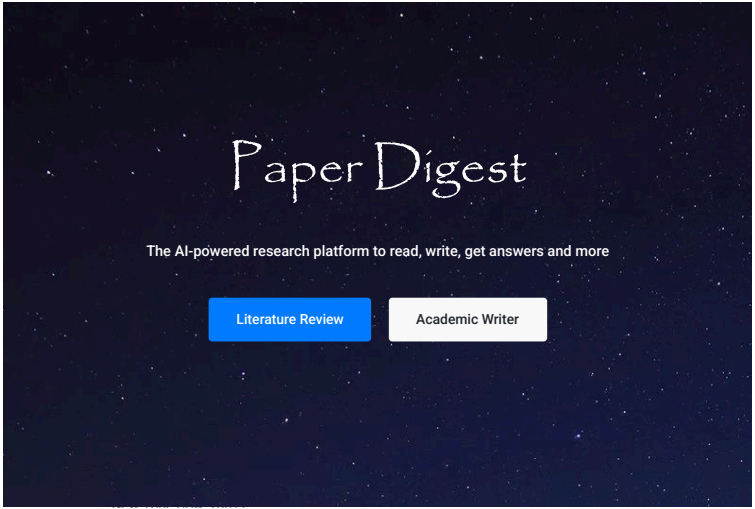
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[1] An integrative approach to generating explainable safety ... (https://www.sciencedirect.com/science/article/abs/pii/S0001457524004470)
[2] The Situation Awareness Framework for Explainable AI (SAFE-AI ... (https://www.tandfonline.com/doi/full/10.1080/10447318.2022.2081282)
[3] Explainable Artificial Intelligence (XAI): What we know and what is ... (https://www.sciencedirect.com/science/article/pii/S1566253523001148)
[4] XAI-VSDoA: An Explainable AI-Based Scheme Using Vital Signs to ... (https://ieeexplore.ieee.org/abstract/document/10646331/)
[5] The role of explainable Artificial Intelligence in high-stakes decision ... (https://link.springer.com/article/10.1007/s12652-023-04594-w)
[6] Cloud-based XAI Services for Assessing Open Repository Models ... (https://xai-hub.com/assets/pdf/IEEE_SSE.pdf)
[7] How informative is your XAI? Assessing the quality of ... - Frontiers (https://www.frontiersin.org/journals/computer-science/articles/10.3389/fcomp.2024.1412341/full)
[8] Explainable AI Made Simple: Techniques, Tools & How To Tutorials (https://spotintelligence.com/2024/01/15/explainable-ai/)
[9] Active xAI Tutor - ask me anything. : r/MachineLearningJobs (https://www.reddit.com/r/MachineLearningJobs/comments/1ggyhw5/active_xai_tutor_ask_me_anything/)
[10] Assessing Perceived Trust and Satisfaction with Multiple ... (https://www.mdpi.com/2079-9292/12/12/2594)

Review of the Related Sources

The integration of Explainable Artificial Intelligence (XAI) in learning and assessment contexts has garnered significant attention in recent literature. This review synthesizes findings from various studies that explore the implications, methodologies (https://en.wikipedia.org/wiki?curid=620667), and applications of XAI in these domains.

One of the foundational frameworks for understanding XAI in learning and assessment is the Situation Awareness Framework for Explainable AI (SAFE-AI), which emphasizes the importance of explanation quality in enhancing situational awareness (2). This framework is particularly relevant in high-stakes decision-making scenarios, where the interpretability of AI systems can significantly impact outcomes (5). The need for effective assessment methods and tools is underscored by the growing complexity of machine learning models, which necessitate robust evaluation mechanisms to ensure their explainability (3, 7).

In practical applications, XAI has been utilized to improve safety assessments in various contexts, such as autonomous vehicles, where logical safety assessment scenarios are generated through data preprocessing techniques (1). Similarly, XAI has been applied in health-related assessments, providing accurate predictions and interpretable insights based on vital signs (https://en.wikipedia.org/wiki?curid=2250081), thereby enhancing the decision-making process in medical settings (4, 6).

Moreover, the role of XAI in educational settings is becoming increasingly prominent. Studies have shown that XAI can enhance learning analytics (https://en.wikipedia.org/wiki?curid=487132) by providing insights into student performance and engagement (https://en.wikipedia.org/wiki?curid=39386), which in turn fosters a more personalized learning experience (10). The assessment of perceived trust and satisfaction with different explanation techniques in XAI-enhanced learning analytics has also been explored, indicating that the quality of explanations can significantly influence user acceptance and trust in AI systems (10).

In summary, the literature highlights the multifaceted role of XAI in learning and assessment situations, emphasizing the need for frameworks that prioritize explanation quality and situational awareness. The ongoing development of assessment methods and tools tailored to XAI applications is crucial for ensuring that these technologies are effectively integrated into various domains, from education to healthcare and beyond.

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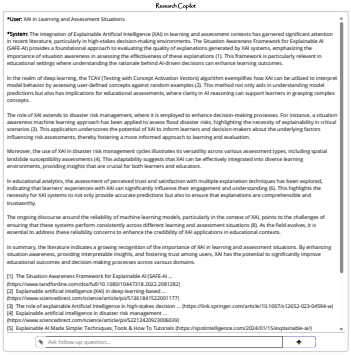
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*User: XAI in Learning and Assessment Situations
*System: The integration of Explainable Artificial Intelligence (XAI) in learning and assessment contexts has garnered significant attention in recent literature, particularly in high-stakes decision-making environments. The Situation Awareness Framework for Explainable AI (SAFE-AI) provides a foundational approach to evaluating the quality of explanations generated by XAI systems, emphasizing the importance of situation awareness in assessing the effectiveness of these explanations (1). This framework is particularly relevant in educational settings where understanding the rationale behind AI-driven decisions can enhance learning outcomes.
In the realm of deep learning, the TCAV (Testing with Concept Activation Vectors) algorithm exemplifies how XAI can be utilized to interpret model behavior by assessing user-defined concepts against random examples (2). This method not only aids in understanding model predictions but also has implications for educational assessments, where clarity in AI reasoning can support learners in grasping complex concepts.
The role of XAI extends to disaster risk management, where it is employed to enhance decision-making processes. For instance, a situation awareness machine learning approach has been applied to assess flood disaster risks, highlighting the necessity of explainability in critical scenarios (3). This application underscores the potential of XAI to inform learners and decision-makers about the underlying factors influencing risk assessments, thereby fostering a more informed approach to learning and evaluation.
Moreover, the use of XAI in disaster risk management cycles illustrates its versatility across various assessment types, including spatial landslide susceptibility assessments (4). This adaptability suggests that XAI can be effectively integrated into diverse learning environments, providing insights that are crucial for both learners and educators.
In educational analytics, the assessment of perceived trust and satisfaction with multiple explanation techniques has been explored, indicating that learners' experiences with XAI can significantly influence their engagement and understanding (6). This highlights the necessity for XAI systems to not only provide accurate predictions but also to ensure that explanations are comprehensible and trustworthy.
The ongoing discourse around the reliability of machine learning models, particularly in the context of XAI, points to the challenges of ensuring that these systems perform consistently across different learning and assessment situations (8). As the field evolves, it is essential to address these reliability concerns to enhance the credibility of XAI applications in educational contexts.
In summary, the literature indicates a growing recognition of the importance of XAI in learning and assessment situations. By enhancing situation awareness, providing interpretable insights, and fostering trust among users, XAI has the potential to significantly improve educational outcomes and decision-making processes across various domains.
[1] The Situation Awareness Framework for Explainable AI (SAFE-AI ...
(https://www.tandfonline.com/doi/full/10.1080/10447318.2022.2081282)
[2] Explainable artificial intelligence (XAI) in deep learning-based ...
(https://www.sciencedirect.com/science/article/pii/S1361841522001177)
[3] The role of explainable Artificial Intelligence in high-stakes decision ... (https://link.springer.com/article/10.1007/s12652-023-04594-w)
[4] Explainable artificial intelligence in disaster risk management ...
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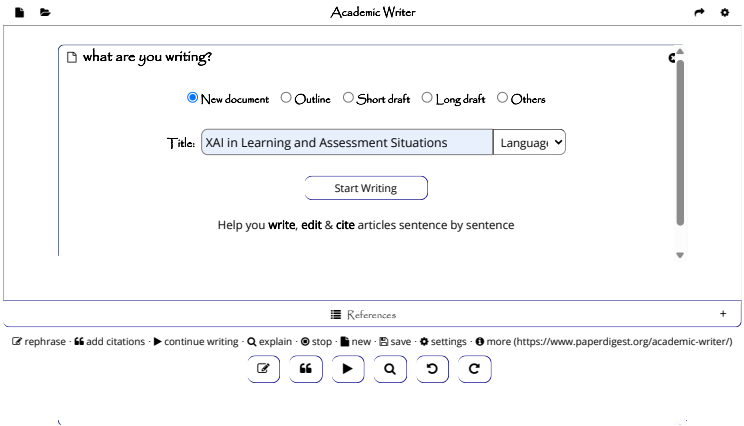
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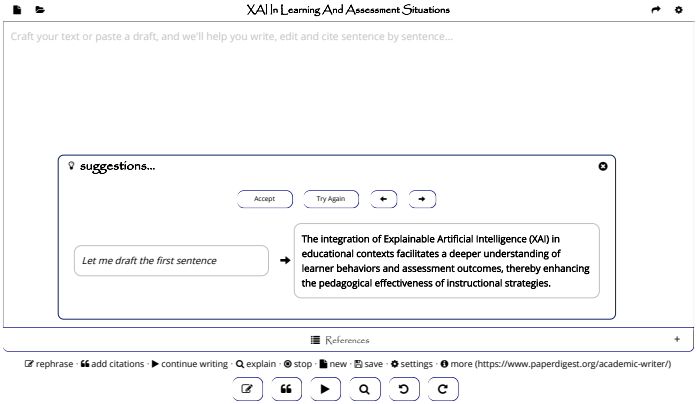
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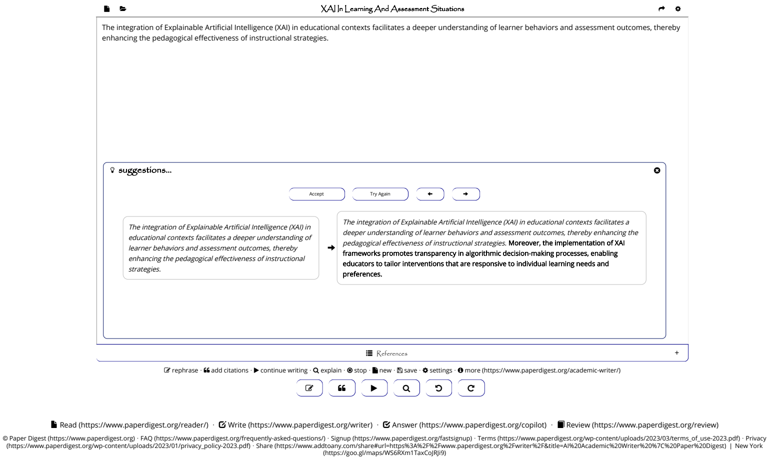
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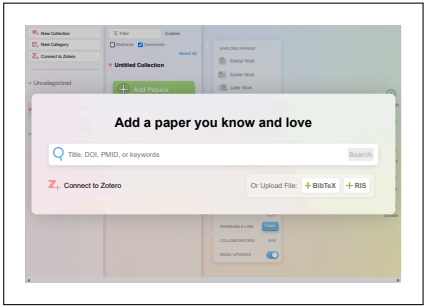

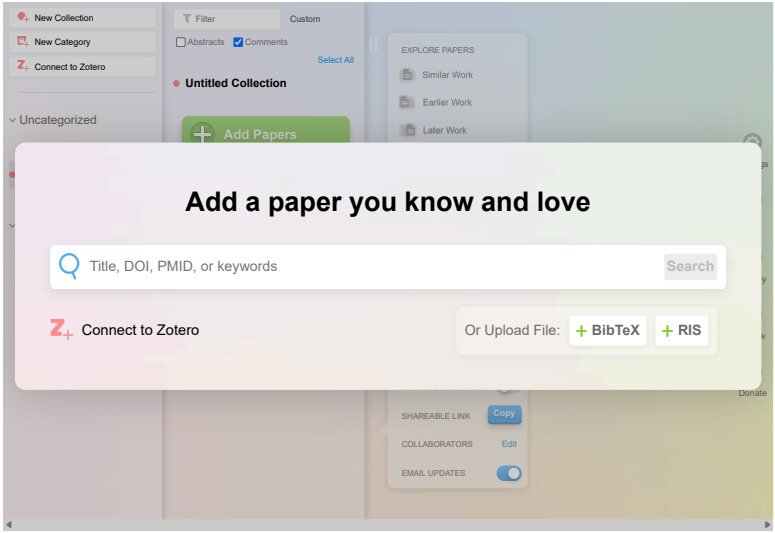
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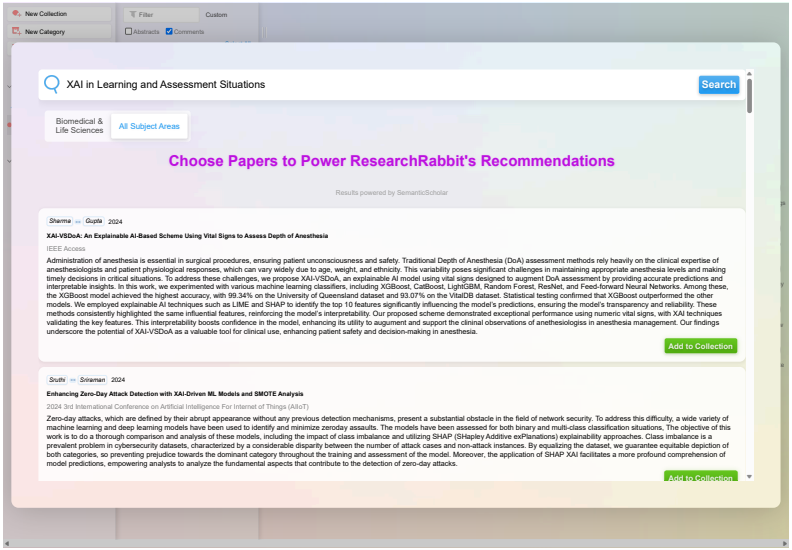
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Sharma Gupta 2024
XAI-VSDoA: An Explainable AI-Based Scheme Using Vital Signs to Assess Depth of Anesthesia
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Administration of anesthesia is essential in surgical procedures, ensuring patient unconsciousness and safety. Traditional Depth of Anesthesia (DoA) assessment methods rely heavily on the clinical expertise of anesthesiologists and patient physiological responses, which can vary widely due to age, weight, and ethnicity. This variability poses significant challenges in maintaining appropriate anesthesia levels and making timely decisions in critical situations. To address these challenges, we propose XAI-VSDoA, an explainable AI model using vital signs designed to augment DoA assessment by providing accurate predictions and interpretable insights. In this work, we experimented with various machine learning classifiers, including XGBoost, CatBoost, LightGBM, Random Forest, ResNet, and Feed-forward Neural Networks. Among these, the XGBoost model achieved the highest accuracy, with 99.34% on the University of Queensland dataset and 93.07% on the VitalDB dataset. Statistical testing confirmed that XGBoost outperformed the other models. We employed explainable AI techniques such as LIME and SHAP to identify the top 10 features significantly influencing the model's predictions, ensuring the model's transparency and reliability. These methods consistently highlighted the same influential features, reinforcing the model's interpretability. Our proposed scheme demonstrated exceptional performance using numeric vital signs, with XAI techniques validating the key features. This interpretability boosts confidence in the model, enhancing its utility to augument and support the clinical observations of anethesiologisn in anesthesia management. Our findings underscore the potential of XAI-VSDoA as a valuable tool for clinical use, enhancing patient safety and decision-making in anesthesia.
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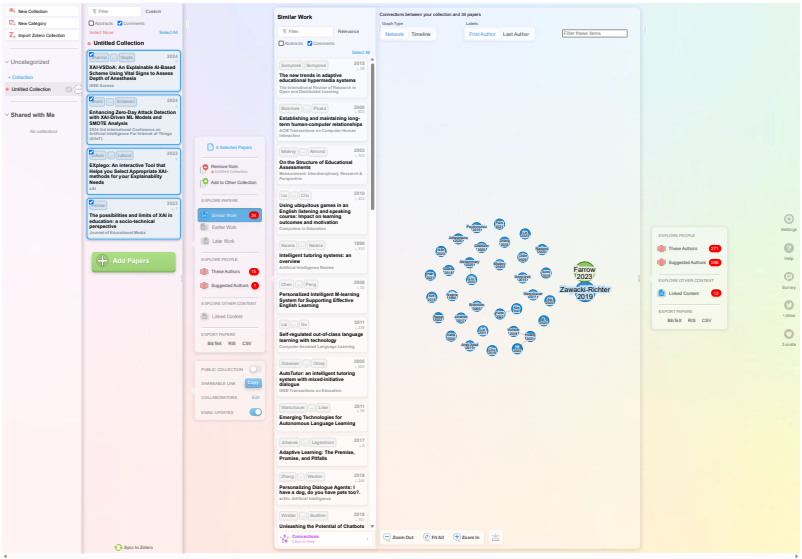
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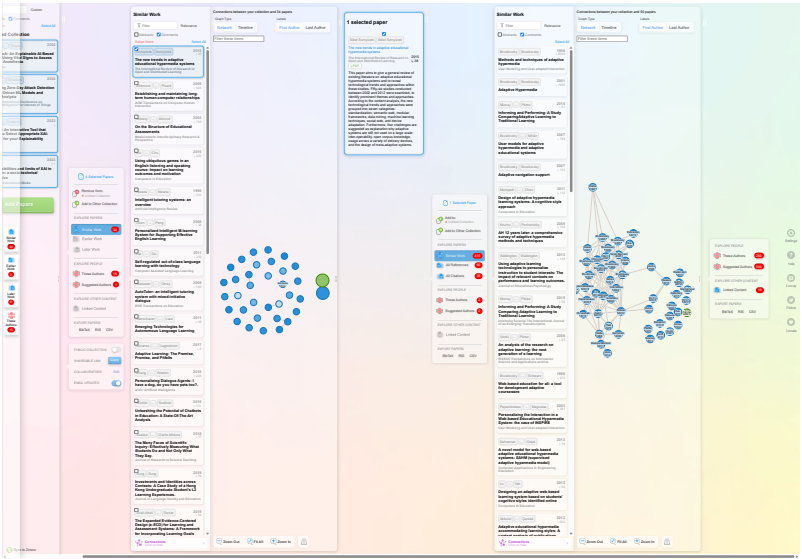
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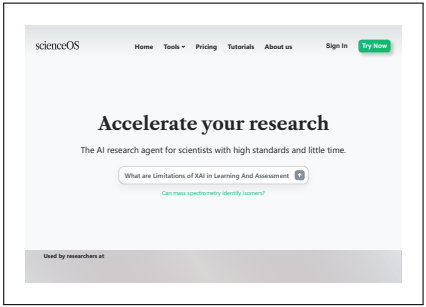

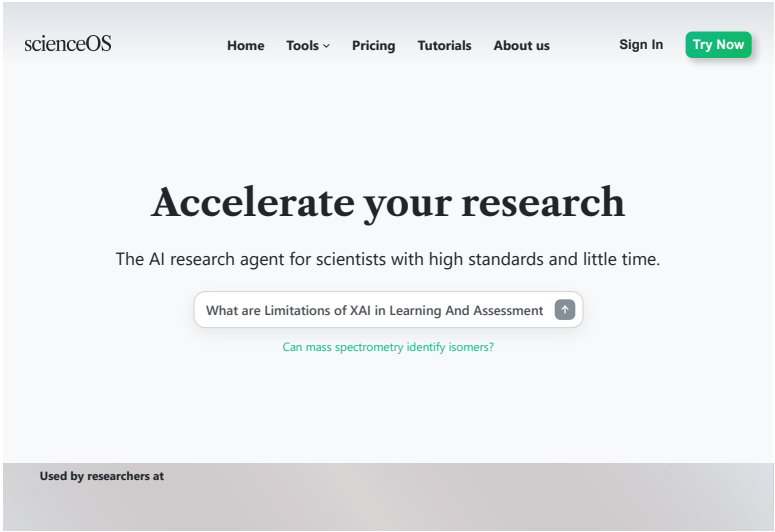
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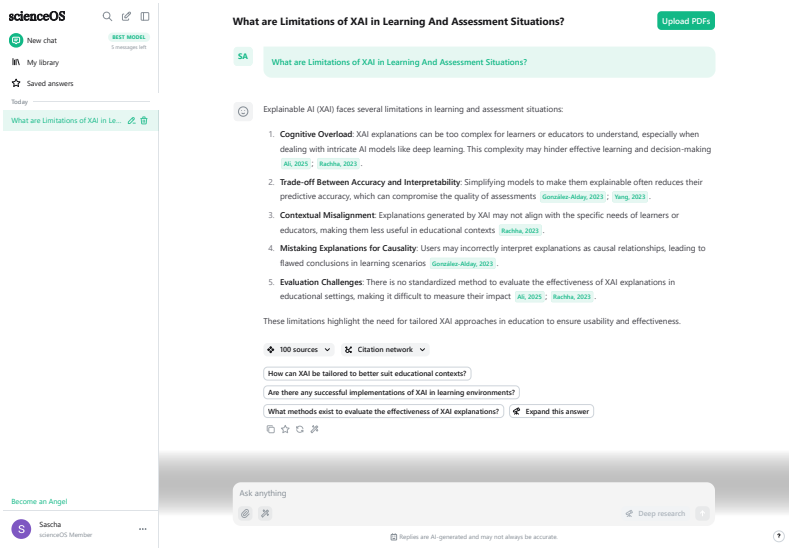
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Explainable AI (XAI) faces several limitations in learning and assessment situations:
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2. Trade-off Between Accuracy and Interpretability: Simplifying models to make them explainable often reduces their predictive accuracy, which can compromise the quality of assessments González-Alday, 2023 ; Yang, 2023 .
3. Contextual Misalignment: Explanations generated by XAI may not align with the specific needs of learners or educators, making them less useful in educational contexts Rachha, 2023 .
4. Mistaking Explanations for Causality: Users may incorrectly interpret explanations as causal relationships, leading to flawed conclusions in learning scenarios González-Alday, 2023 .
5. Evaluation Challenges: There is no standardized method to evaluate the effectiveness of XAI explanations in educational settings, making it difficult to measure their impact Ali, 2025 ; Rachha, 2023 .
These limitations highlight the need for tailored XAI approaches in education to ensure usability and effectiveness.
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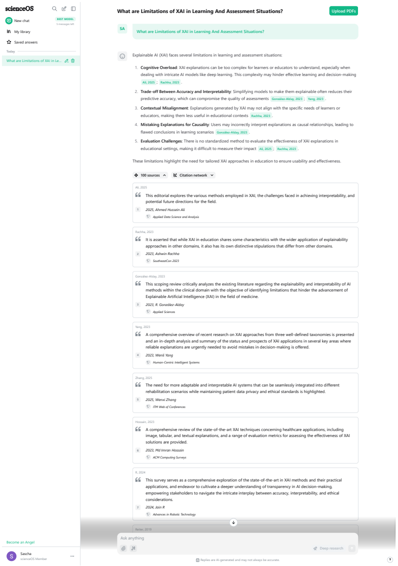
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What are Limitations of XAI in Learning And Assessment Situations?
Explainable AI (XAI) faces several limitations in learning and assessment situations:
1. Cognitive Overload: XAI explanations can be too complex for learners or educators to understand, especially when dealing with intricate AI models like deep learning. This complexity may hinder effective learning and decision-making Ali, 2025 ; Rachha, 2023 .
2. Trade-off Between Accuracy and Interpretability: Simplifying models to make them explainable often reduces their predictive accuracy, which can compromise the quality of assessments González-Alday, 2023 ; Yang, 2023 .
3. Contextual Misalignment: Explanations generated by XAI may not align with the specific needs of learners or educators, making them less useful in educational contexts Rachha, 2023 .
4. Mistaking Explanations for Causality: Users may incorrectly interpret explanations as causal relationships, leading to flawed conclusions in learning scenarios González-Alday, 2023 .
5. Evaluation Challenges: There is no standardized method to evaluate the effectiveness of XAI explanations in educational settings, making it difficult to measure their impact Ali, 2025 ; Rachha, 2023 .
These limitations highlight the need for tailored XAI approaches in education to ensure usability and effectiveness.
100 sources
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Ali, 2025
This editorial explores the various methods employed in XAI, the challenges faced in achieving interpretability, and potential future directions for the field.
1 2025, Ahmed Hussein Ali
Applied Data Science and Analysis
Rachha, 2023
It is asserted that while XAI in education shares some characteristics with the wider application of explainability approaches in other domains, it also has its own distinctive stipulations that differ from other domains.
2 2023, Ashwin Rachha
SoutheastCon 2023
González-Alday, 2023
This scoping review critically analyzes the existing literature regarding the explainability and interpretability of AI methods within the clinical domain with the objective of identifying limitations that hinder the advancement of Explainable Artificial Intelligence (XAI) in the field of medicine.
3 2023, R. González-Alday
Applied Sciences
Yang, 2023
A comprehensive overview of recent research on XAI approaches from three well-defined taxonomies is presented and an in-depth analysis and summary of the status and prospects of XAI applications in several key areas where reliable explanations are urgently needed to avoid mistakes in decision-making is offered.
4 2023, Wenli Yang
Human-Centric Intelligent Systems
Zhang, 2025
The need for more adaptable and interpretable AI systems that can be seamlessly integrated into different rehabilitation scenarios while maintaining patient data privacy and ethical standards is highlighted.
5 2025, Wenxi Zhang
ITM Web of Conferences
Hossain, 2023
A comprehensive review of the state-of-the-art XAI techniques concerning healthcare applications, including image, tabular, and textual explanations, and a range of evaluation metrics for assessing the effectiveness of XAI solutions are provided.
6 2023, Md Imran Hossain
ACM Computing Surveys
R, 2024
This survey serves as a comprehensive exploration of the state-of-the-art in XAI methods and their practical applications, and endeavor to cultivate a deeper understanding of transparency in AI decision-making, empowering stakeholders to navigate the intricate interplay between accuracy, interpretability, and ethical considerations.
7 2024, Jain R
Advances in Robotic Technology
Reiter, 2019
Ask anything
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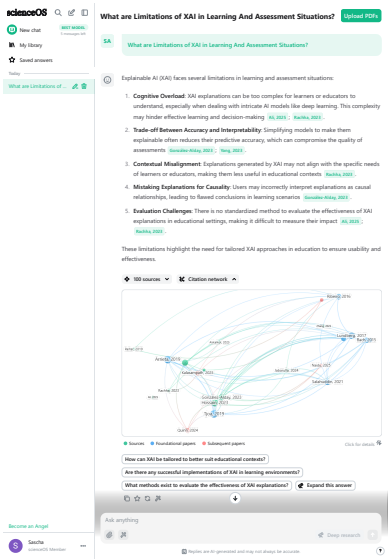
Replies are AI-generated and may not always be accurate.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These limitations highlight the need for tailored XAI approaches in education to ensure usability and effectiveness.
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How can XAI be tailored to better suit educational contexts?
Are there any successful implementations of XAI in learning environments?
What methods exist to evaluate the effectiveness of XAI explanations?
Expand this answer
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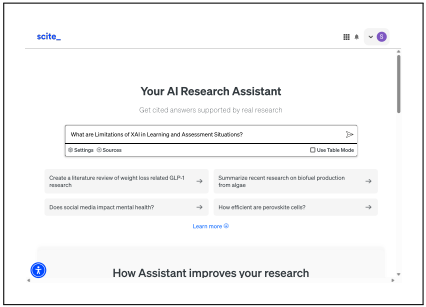
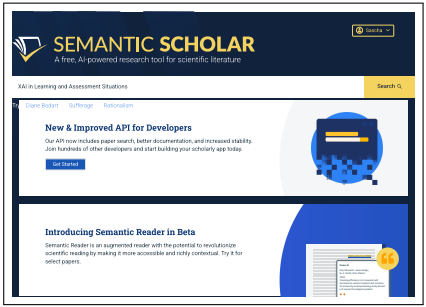
Scite (https://scite.ai/)

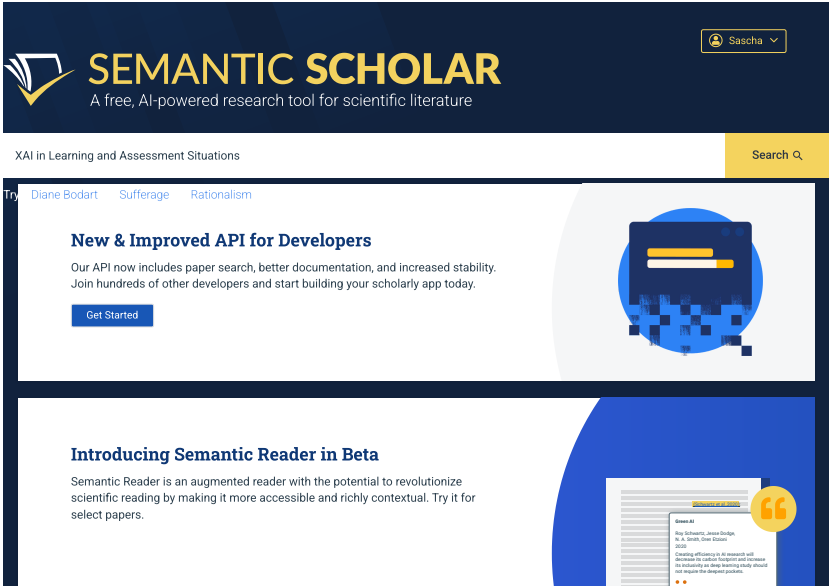
- Bewertung nach Zitationskontext
- Differenzierung zwischen stützenden/kritischen Zitaten
- Eignet sich zur Quellenbewertung



Semantic Scholar (https://www.semanticscholar.org/)

- KI-gestützte Literatursuche
- Filter- und Analysefunktionen
- Breite Datenbasis

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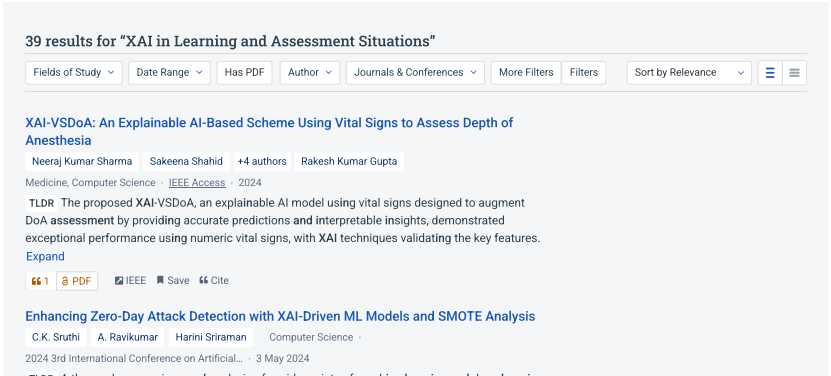
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Neeraj Kumar Sharma
Sakeena Shahid
+4 authors
Rakesh Kumar Gupta
Medicine, Computer Science · IEEE Access · 2024
TLDR The proposed XAI-VSDoA, an explainable AI model using vital signs designed to augment DoA assessment by providing accurate predictions and interpretable insights, demonstrated exceptional performance using numeric vital signs, with XAI techniques validating the key features.
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C.K. Sruthi
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Martin Jullum
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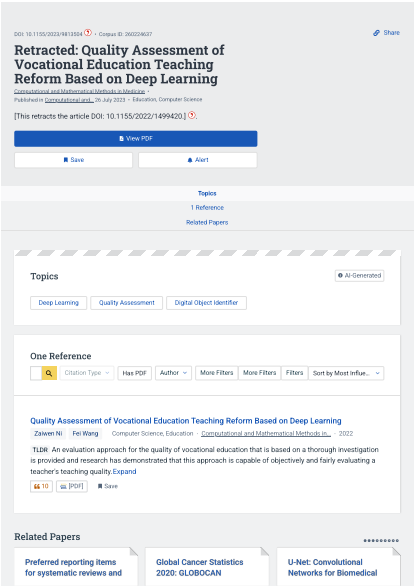
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Zaiwen Ni
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TLDR An evaluation approach for the quality of vocational education that is based on a thorough investigation is provided and research has demonstrated that this approach is capable of objectively and fairly evaluating a teacher's teaching quality. Expand
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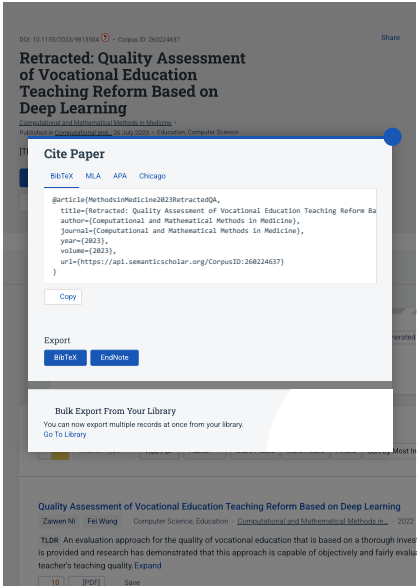
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TLDR An evaluation approach for the quality of vocational education that is based on a thorough inves
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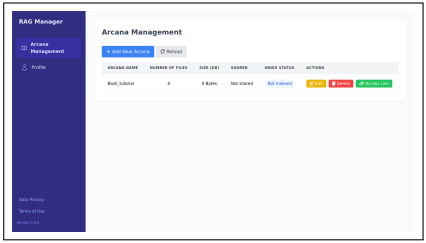

Typische Anwendungsfälle

- Literatur-Reviews effizient erstellen
- Forschungstrends erkennen
- Paper-Inhalte clustern und bewerten
- Hypothesen mit Studien abgleichen

Workshop: Literaturrecherche mit KI

- Thema eurer Wahl
- Nutzt mind. ein Tools zur Recherche
- Notiert: Was wurde gefunden? Welche Treffer waren relevant?
- Reflektiert: Welche Limitationen hattet ihr?
- Erstellt eine kurze Präsentation mit Live-Demo

Diskussion im Plenum

- Präsentation mit Diskussion

Take-Home-Message

- KI kann Rechercheprozesse effizienter gestalten
- Kritische Reflexion der Ergebnisse bleibt zentral
- Datenschutz & Quellenvielfalt sind Schlüsselfaktoren