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The Future of Linguistics and AI: Interaction or influence?



Alireza Dehbozorgi

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What is the impact of artificial societies on linguistics?

Artificial societies are having a significant impact on linguistics. With the rapid advancements in AI and natural language processing, machines are becoming increasingly sophisticated in understanding and generating human language. Conversational agents or chatbots are being developed to understand and respond to human queries, and they are becoming more sophisticated with the ability to understand context, sentiment, and even emotions. Multilingual AI models are also being developed to understand and generate text in multiple languages, making them

ideal for global applications. These advancements are enabling machines to communicate with humans more effectively, opening up new possibilities for human-machine interaction. As a result, language is becoming the next great frontier in AI, poised to transform vast swaths of society and the economy (1).

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How will AI impact the evolution of language?

Artificial intelligence (AI) is expected to have a significant impact on the evolution of language. With the rise of voice-activated AI technology, people are getting used to conversing with machines, which may affect the way we use language. AI is already offering “good enough” translation to help people communicate with others whose language they don’t share, which may lead to better communication across cultures. AI may also introduce new terms and concepts into mainstream conversations, bringing technology terms out of fringe use by those in the tech industry. AI may even create new words if no relevant existing word is found (2, 3). Additionally, AI can help researchers study the evolution of language by making predictions about how languages might change over time (4). Overall, AI is poised to transform language and communication in significant ways.

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- How is AI changing the way we communicate?

Artificial intelligence (AI) is changing the way we communicate in several ways. One of the most significant achievements of AI is breaking language barriers. AI can instantly translate and interpret languages, making communication more accessible and efficient. AI can also foster strong workplace communication by using various analytics to indicate the success rate of presentations and anticipate the types of interaction. AI can also respond to messages in a similar manner to the company’s guidelines, eliminating negative tone and emotions. However, the social consequences of using AI to communicate remain largely unexplored, and the interference of AI in human communication may affect interpersonal relationships. Overall, AI is transforming communication by making it more accessible, efficient, and personalized (5, 6, 7, 8, 9).

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- **How AI is improving workplace communication?!**

Artificial intelligence (AI) is improving workplace communication in several ways. AI chatbots can provide early intervention for employees to deal with stress and help them better communicate to their managers what they need. AI can also foster strong workplace communication by using various analytics to indicate the success rate of presentations and anticipate the types of interaction. Chatbots are another way to automate communications, simulating conversation with another human. They can be used in a variety of ways to improve workplace communication. Additionally, AI can analyze and interpret large amounts of data, providing insights that can help individuals and organizations make more informed decisions. For example, social media monitoring tools can use AI to analyze trends and sentiment across social media platforms, helping businesses to better understand their audience and improve their marketing strategies ([10](#), [11](#), [12](#), [13](#), [14](#)).

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- **What are some of the potential risks and challenges of AI integration in workplace communication?**

While AI has the potential to revolutionize workplace communication, it also poses certain risks and challenges. One of the biggest risks is the interference of AI in human communication. Most current communication systems featuring AI mediation lack transparency for users, and the sender knows that their responses have been modified or generated by AI, which could lead to issues with trust and transparency. Additionally, humans are already predisposed to trust other humans over computers, which could affect interpersonal relationships. Another challenge is that AI is still evolving, and organizations should not expect perfection right out of the gate. Finally, there is a risk that AI could replace human jobs, which could lead to job loss and other negative consequences. Overall, it is important to be mindful of the potential risks and challenges that come with AI integration in workplace communication and work to address them ([15](#), [16](#), [17](#), [18](#), [19](#)).

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- **The Future of Linguistics in AI and Artificial Societies**

Artificial intelligence (AI) is transforming various industries, and linguistics is no exception. Language is the cornerstone of human intelligence, and it is through language that we formulate thoughts and communicate them to one another. As AI becomes more sophisticated, it may create its own languages, which could originate from a combination of human languages it considers most ideal to express thoughts and objectives. AI will have its own reasons for choosing one expression over another to best describe a situation. If no relevant existing word is found, it may create new words. The tables may turn. We may study the definitions of words in AI languages, even incorporate them into our own.

The field of linguistic AI is at an exhilarating inflection point, on the cusp of transforming industries and spawning new multi-billion-dollar startups.

Digital linguistics ([20](#), [21](#), [22](#), [23](#), [24](#)), which involves the study of language in the context of digital communication, is having a significant impact on the future of artificial societies. Language technologies based on the principles of artificial intelligence are increasingly being used to regiment language, which could have implications for the diversity and richness of language ([25](#)).

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- **What are the ethical implications of AI on language-driven technologies?**

The increasing use of artificial intelligence (AI) in language-based technologies has ethical implications that need to be considered. The focus on the ethical implications of AI is becoming more important as AI technologies become more prevalent in the workplace ([26](#)). The ethical implications of AI on language-based technologies were discussed in a workshop that focused on the impact of AI on society, specifically on language-based technologies at the intersection of AI and ICT (Artificially Intelligent Communications Technologies) ([27](#), [28](#)). The workshop examined various aspects of the social impact of AICT-based systems in modern digital communication, including the specific linguistic, ethical, psychological, sociological, legal, and technical challenges posed by AICT ([29](#)). Ethical issues that arise at different stages of

language resources and language technology development, from the conception to the deployment of these technologies, were also discussed (30). The posture is that the mind and language are fully intertwined, inseparably so, and anyone trying to devise AI based on how human intelligence works must consider the ethical implications of their work (31). Overall, the ethical implications of AI on language-based technologies are complex and multifaceted, and it is important to consider them carefully to ensure that AI is developed and used in a responsible and ethical manner.

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- **The role of ontologies in the future of linguistics**

Ontologies, which refer to a set of terms and their relationships, forming a network of concepts in a domain, are playing an increasingly important role in the future of linguistics (32). In computer science and artificial intelligence, ontology languages are formal languages used to construct ontologies, allowing the encoding of knowledge (33). In the linguistic context, an ontology has been defined as a cross-connected network of relevant concepts, which makes explicit, classifies, and relates the concepts in a domain (34, 35, 36). An ontology of linguistic concepts is crucial to the performance of linguistic knowledge systems for several reasons, including providing a strict organization for the knowledge, enabling the system to reason about the knowledge, and facilitating the sharing and reuse of knowledge (37, 38). Natural language ontology is the study of the ontology implicit in natural language, including ontological categories, structures, and notions. (39)

In conclusion, ontologies are playing an increasingly important role in the future of linguistics, enabling the encoding, organization, and sharing of knowledge in a domain.

Having said these, the vital question still remains to be answered in the future. What do you think?

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Thanks a billion for your attention and support. Life is short. Let's be a bit more kind to each other!

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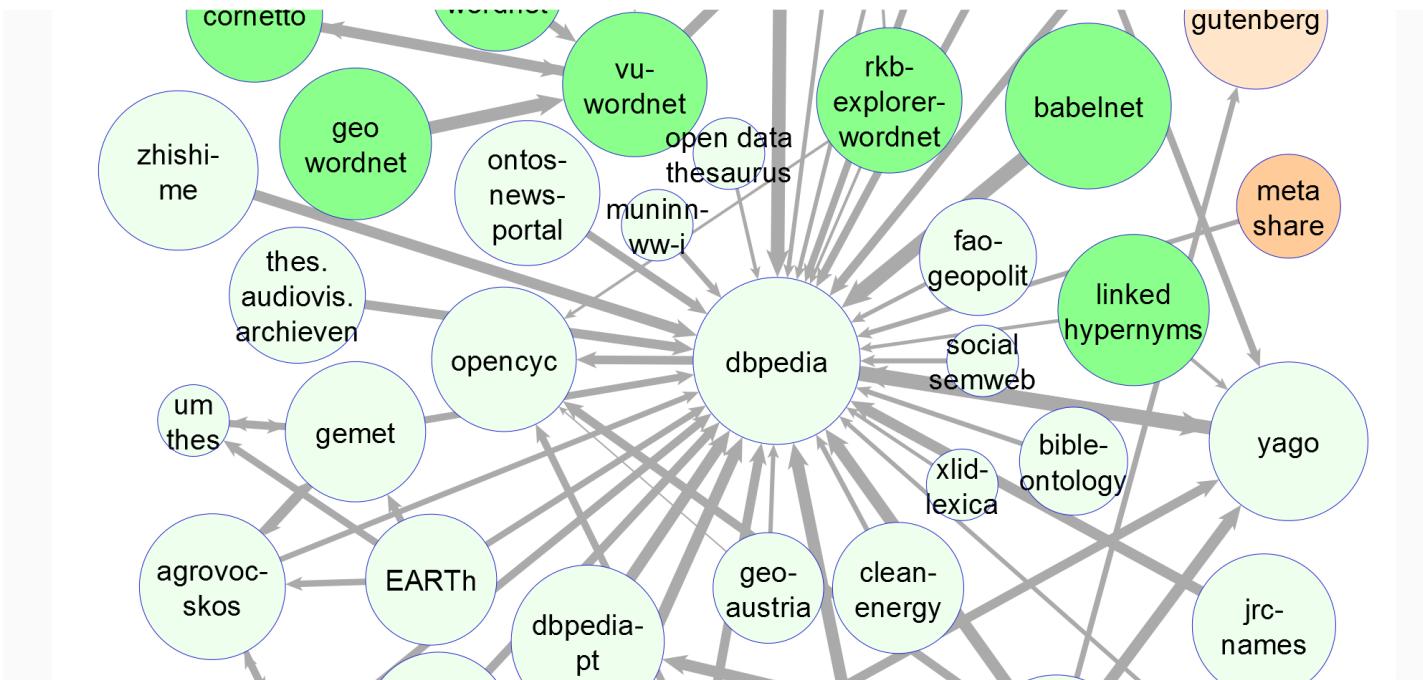
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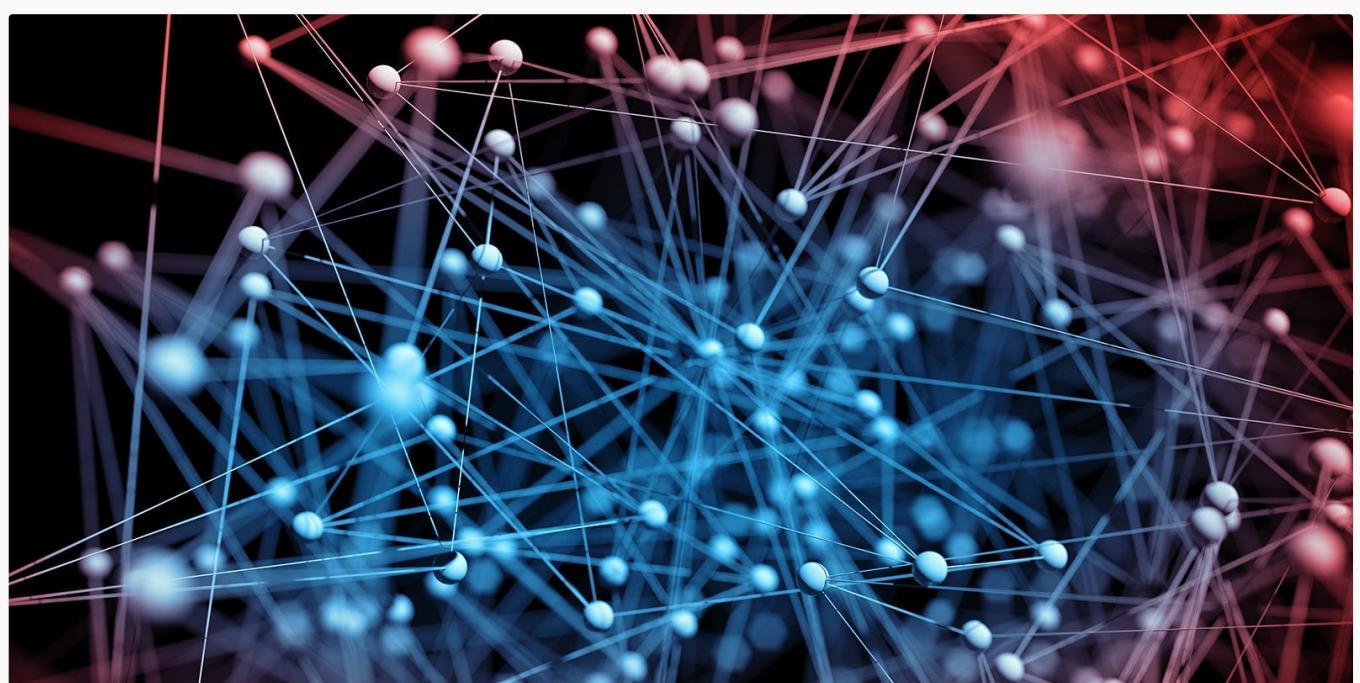
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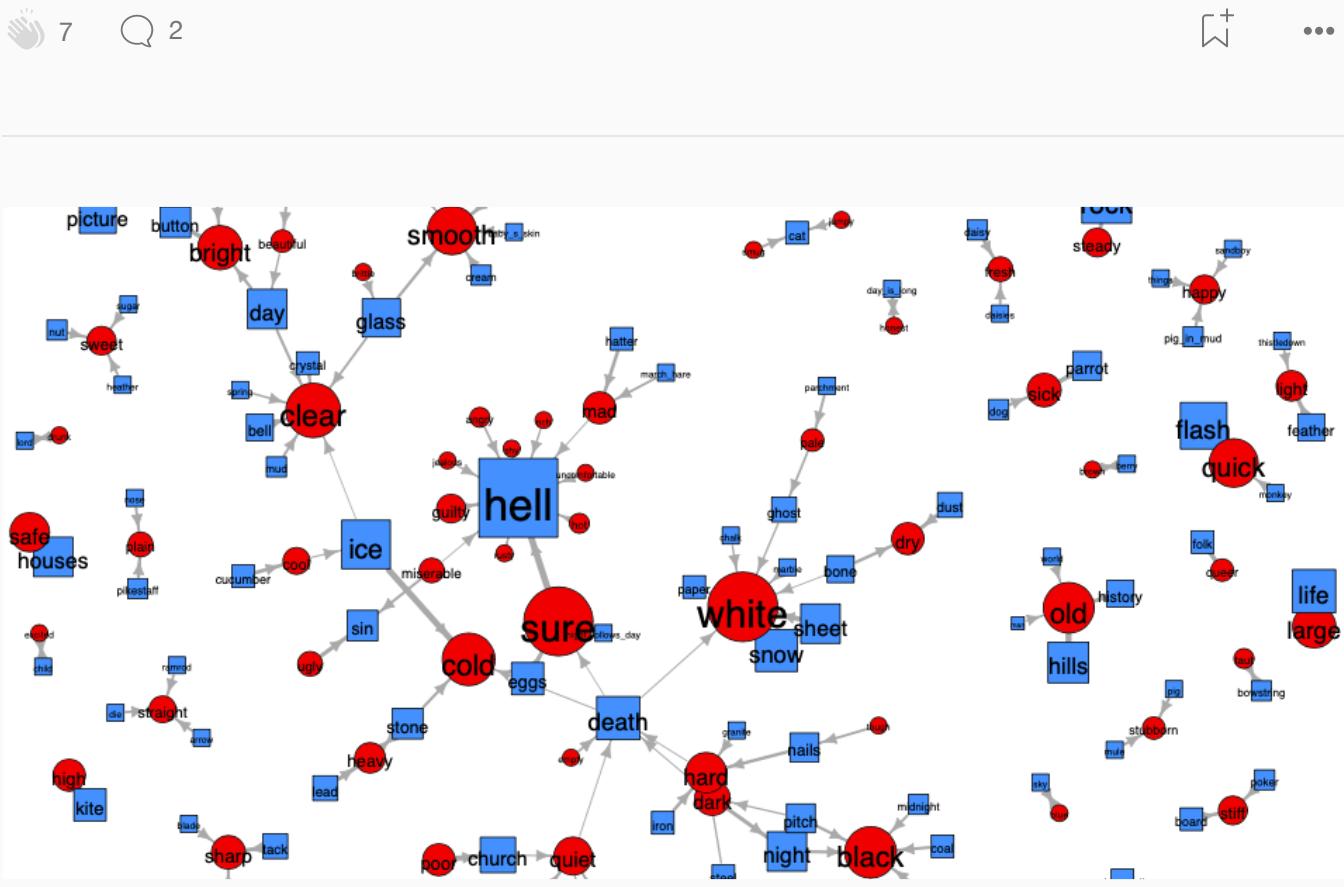


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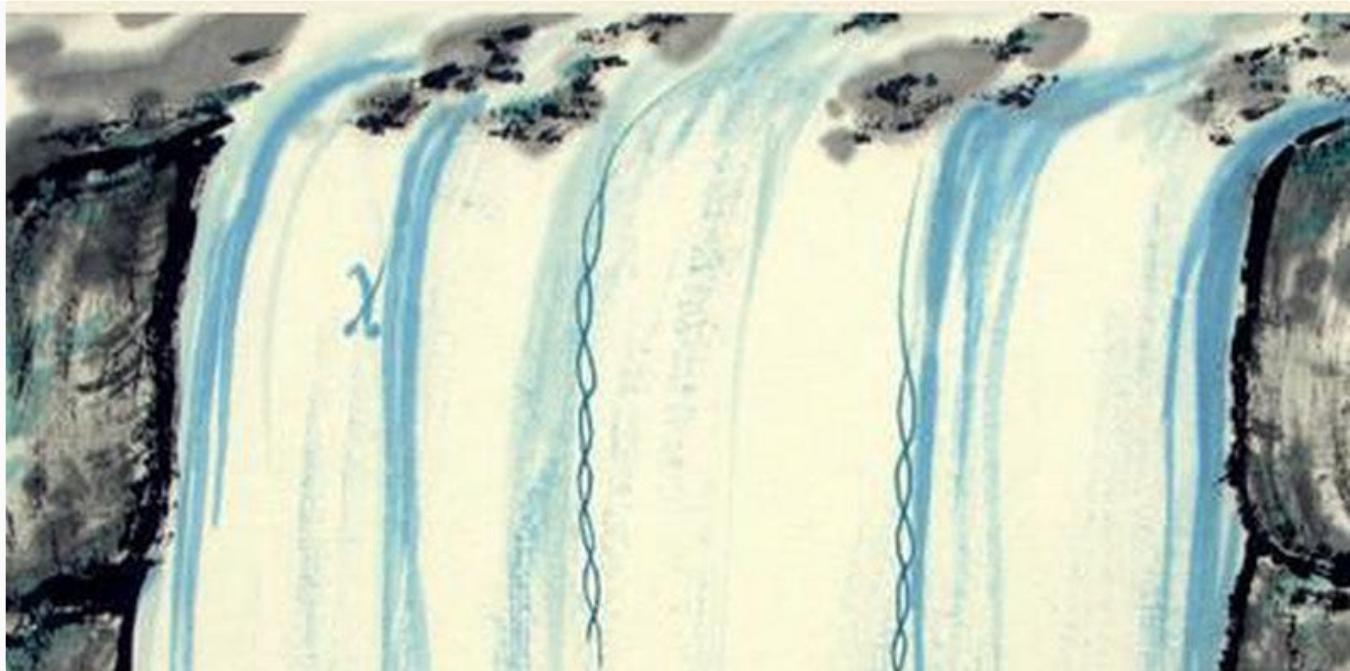


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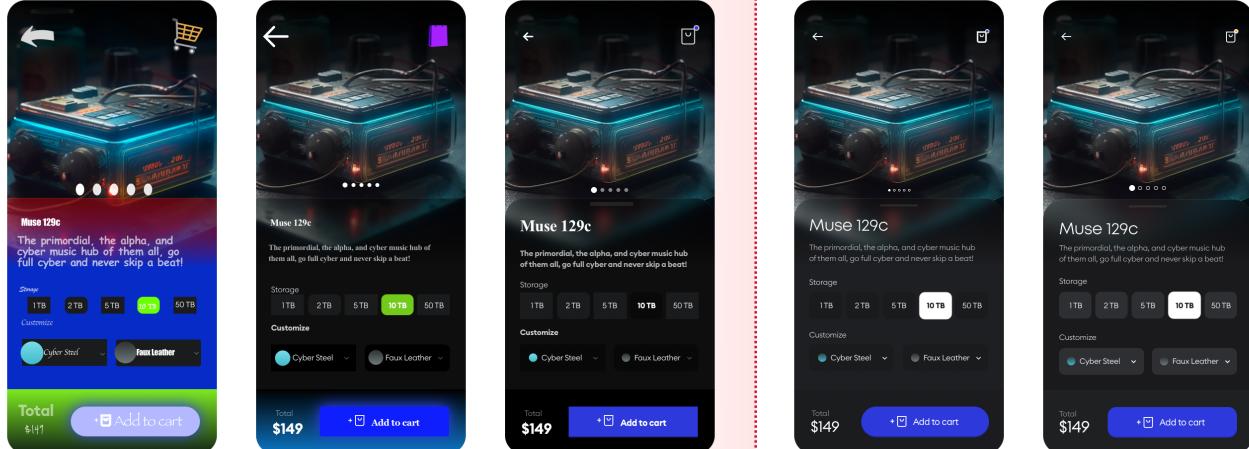
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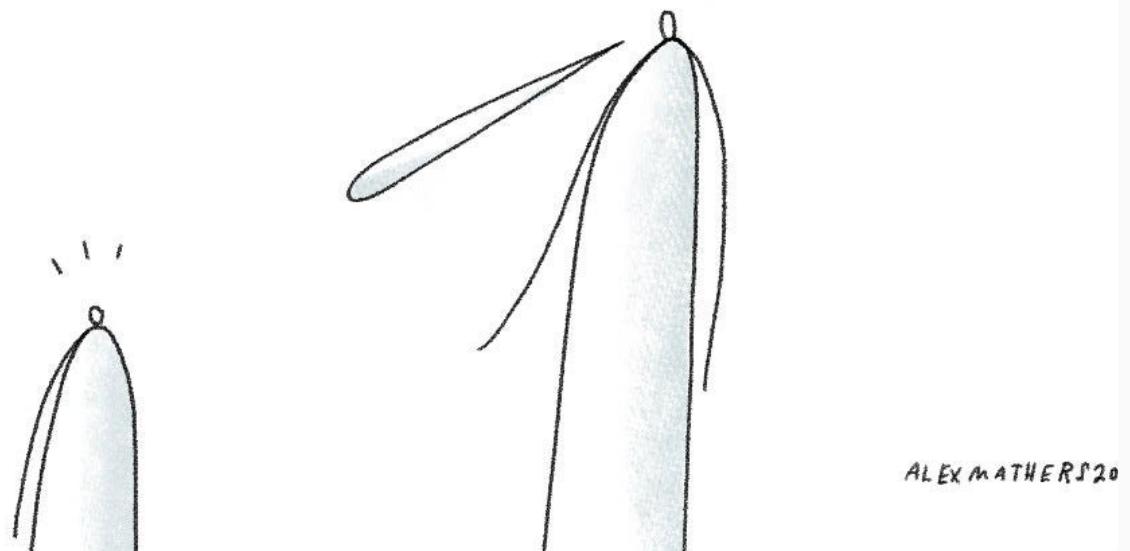
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