

Editorial Meeting Minutes/Resolutions - November 1, 2023

Homeless man in Anchorage uses homemade spear to kill bear

[https://www.cbc.ca/news/canada/north/homeless-man-in-anchorage-uses-homemade-spear-to-kill-bear-](https://www.cbc.ca/news/canada/north/homeless-man-in-anchorage-uses-homemade-spear-to-kill-bear-1.3255668#:~:text=Battle%20said%20Tandler%20threw%20the,of%20life%20and%20property%20law.)

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(increasingly small, increasingly less, progressively worse, etc.)

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TY: The US has historically been a leader in the biotech space. Yet, as noted in the report, Europe, Israel, and Singapore, **among others**, are making significant strides. **Countries like Iceland, Bolivia, and Cameroon** are all deliberating national AI strategies.

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Future Tech Director shares her take on US biotech's future course

By Andrii Buvalo

Oct 26, 2023

STANDFIRST: Pharma analyst, BiopharmaTrend.com co-founder, and The Yuan contributor Andrii Buvailo recently interviewed Abigail Kukura, Director of Future Technology Platforms at the Special Competitive Studies Project, for her opinions on what the future of US biotech might hold.

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NEW INTERVIEW FORMAT:

Old:

Q/The Yuan/TY: But to sort of further this question or to take a deep dive, so, these issues of hate speech, of privacy, of security of... all these issues have been around, I'm not going to say for centuries but for a while, right, but now it seems that the debate is moving from this fair and coherent battlefield, where you had the good guys on one side and good guys would be, in the past at least, digital intermediaries or big tech companies. And on the bad side, you would have the evil governments. Right now, it seems like the battlefield is sort of murkier in terms that there's no good guys here, but at the same time, you know, everybody's pulling to their side. So, what do you think, how did we come to this situation, where to put it, a bit paranoid, who to trust regarding these issues?

Callum Voge: [I]f you compare it to the past, I think it is a lot murkier, right, because I think there's a better understanding about the different actors. You mentioned the Big Tech providers, the government, good guys and bad guys, it's all kind of twisted in our minds and I think that kind of lack of trust is what is at the heart of this.

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Hwæt! We Gardena in geardagum,
þeodcyninga, þrym gefrunon,
hu ða æþelingas ellen fremedon.
Beowulf

What we are seeing **play out** is that Trump is and was perhaps America's greatest threat to national security. As a submarine force veteran, I understand very clearly how significantly he compromised some of the most highly classified details of submarine operations. **It** is unconscionable **what** he has done.

<https://us.yahoo.com/news/trump-chatter-aussie-billionaire-could-093002539.html>

On land, **there are still** relics of humanity **that** remain.

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<https://www.youtube.com/watch?v=l11zPNb-MFg>

With the growth of the labor force slowing **at a time when people are also living longer, there will be increasing pressure** on smaller working-age populations to finance pensions, healthcare, and other (typically) nondiscretionary commitments. With the growth of the labor force slowing **as people also live longer, pressure will increase** on smaller working-age populations to finance pensions, healthcare, and other (typically) nondiscretionary commitments.

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PARIS - As most are now aware, generative artificial intelligence (GenAI) technology is sparking radical transformation across industries. Complex tools like GPT-4, Bard and Claude.AI are capable of processing vast quantities of text rapidly to produce summaries and questions, or even participate in debates.

[Goldman Sachs reported in March](#) that 300 million jobs could be lost or diminished by new developments in this technology, **equivalent to 10 percent of all jobs on the planet**. At the same time, it claims that increasing automation will lead to more innovation, creating new types of jobs. Even going by this **Schumpeterian view, the World Economic Forum** states in this May report that around 69 million jobs will appear, but 83 million will disappear.

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Relative pronouns

Relative pronouns introduce relative clauses. The most common relative pronouns are *who*, *whom*, *whose*, *which*, *that*. The relative pronoun **we use** depends on **what we are referring to** and the type of relative clause.

<https://dictionary.cambridge.org/grammar/british-grammar/relative-pronouns>

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Network science **plays a critical role** in modeling **how epidemics play out**

By Colleen Farrelly

Oct 31, 2023

STANDFIRST: The devastation wrought by **the COVID-19 pandemic** highlights the importance of modeling epidemics **to see how they might play out**.

Network science is **pivotal/instrumental/crucial** in modeling **the course of epidemics**

By Colleen Farrelly

Oct 31, 2023

STANDFIRST: The devastation wrought by **the pandemic/COVID-19** highlights the importance of modeling epidemics **to chart their evolution**.

In a real epidemic, not every person has the same transmission rate - **which is a lot like how compared to ordinary people, social media influencers often reach a wider number of people when promoting healthy or harmful behaviors** (Wang, Li, and Xia, 2018).

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Also, when considering human immunodeficiency virus (HIV), **individuals** might be linked if they share needles or have sexual contact with each other. For each time period, the transmission of disease from **infected individuals** is limited to those **susceptible individuals** who share a link with an **infected individual**. **Susceptible individuals** are infected according to the transmission rate parameter. For **susceptible individuals** who are linked to multiple **infected individuals**, the transmission probability is higher because they have higher exposure to **infected individuals**. Unsurprisingly, those who are not linked to any **infected individuals** have no risk of infection. As **infected individuals** spread disease to **susceptible individuals**

with whom they share connections, the network evolves over time until the epidemic subsides or infects everyone who shares links to someone else in the network. Risk is not evenly spread across the network (Berahmand, Bouyer, and Samadi, 2019). Consider three **groups** of **individuals** sharing needles within their own **group** membership, with most **individuals** rarely sharing needles with others. Should HIV enter one of these three **groups**, the spread of an epidemic would be contained within that **group**. An individual with a high rate of needle sharing across the whole **group** would pose the highest risk to that **group**, as they would have the most chances of passing along HIV to the others in the **group**; measures of network centrality - which identify network **individuals** with many links to others - can identify these high-risk **individuals**, often called 'superspreaders'.

Also, when considering human immunodeficiency virus (HIV), **people** might be linked if they share needles or have sexual contact with each other. For each time period, the transmission of disease from **infected individuals** is limited to **the susceptible** who share a link with **one or more carriers**. **Vulnerable persons** are infected according to the transmission rate parameter. For **those** linked to multiple **carriers**, the transmission probability is higher because they have higher exposure. Unsurprisingly, those not linked to any **carriers** have no risk of infection. As **the contagious** spread disease to **those prone to it** with whom they share connections, the network evolves over time until the epidemic subsides or **affects** everyone with links to someone else in the network. Risk is not evenly spread across the network (Berahmand, Bouyer, and Samadi, 2019). Consider three groups of individuals sharing needles within their own **membership**, with most individuals rarely sharing needles with others. Should HIV enter one of these three groups, the spread of an epidemic would be contained within that group. An individual with a high rate of needle sharing across the whole group would pose the highest risk to that group, as they would have the most chances of passing along HIV to the others in the group; measures of network centrality - which identify network individuals with many links to others - can identify these high-risk individuals, often called 'superspreaders.'

AI healthcare startups are already having a **transformational** impact

AI healthcare startups are already having a **transformative** impact

Note also **digitize v. digitalize**

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