11th Meeting of Equitable Alliance in Education

Improving Access to Good Teachers with Technology

A/P Ben Leong
Director
AI Centre for Educational Technologies

Singapore's 15-year-old students score top marks in OECD's creative thinking test



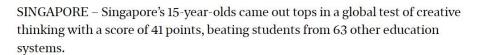
Some 6,600 15-year-old students across all secondary schools and private schools in Singapore participated in the study in 2022. PHOTO:



UPDATED JUN 21, 2024, 04:28 PM ▼



Credit: The Straits Times 21 Jun 2024





Why does Singapore do well in education?



"The teacher is at the heart of improving education."



Good teachers are in short supply



How can we use technology improve access to good teachers?



Case study: severe shortage of Computer Science teachers World-wide

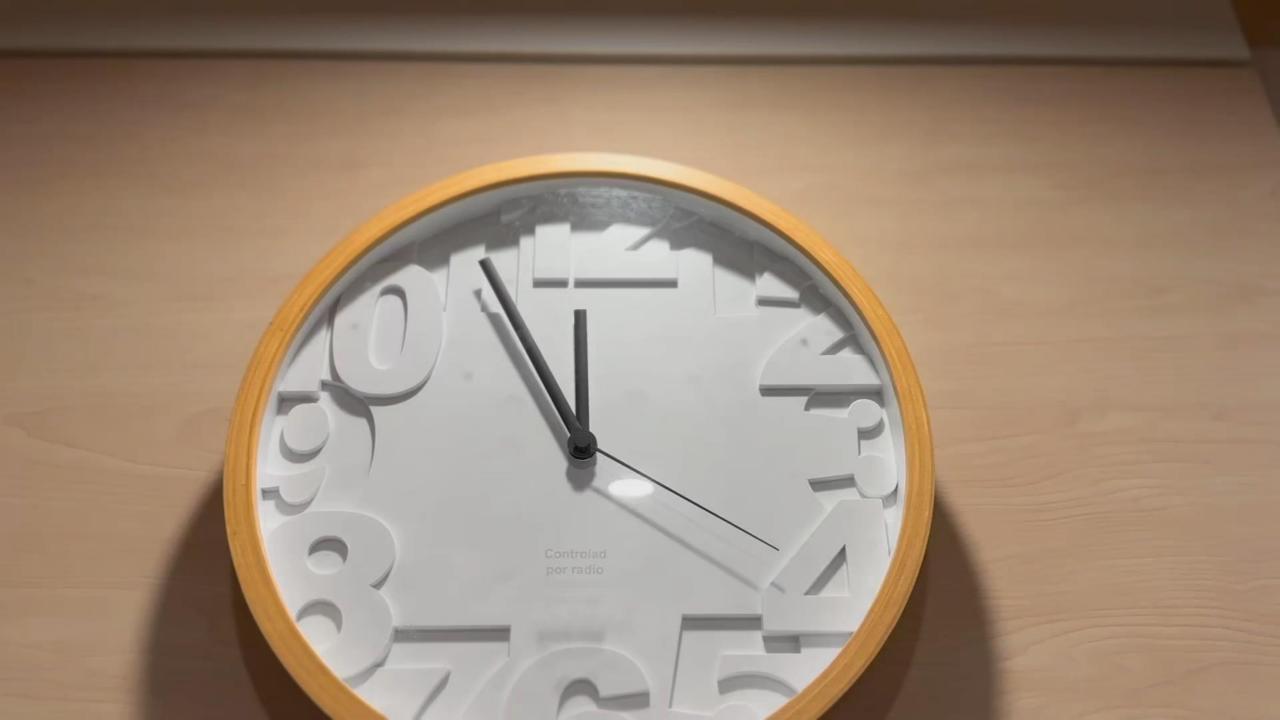


Cornell University programming students wait for 2 hours to seek clarifications ¹



Codaveri: automated feedback for coding questions





Wait, can't ChatGPT already do this?



Research & Development

2023

Improving the Coverage of GPT for Automated Feedback on High School Programming Assignments

NeurIPS GAIED 2023, Generative AI for Education Workshop

Shubham Sahai, Umair Z. Ahmed, Ben Leong

National University of Singapore {shubham, umair}@nus.edu.sg, benleong@comp.nus.edu.sg

How often can we provide valid feedback to students?





Hallucination!



How can we do better?



Teaching is the business of managing motivation



"Students will learn if they know that the teacher cares."





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hard. The app raises serious

ethical questions

Published: February 21, 2023 5.47am GMT

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Ecology; Academic Lead of **UNSW's Grand Challenges**



Key Idea

Capture affective component to teaching



Context:

Remedial
 Online
 teaching/CET



Technology cannot replace great teachers



2 Strategies

 Ensure minimal bar
 Scale up efficiency of existing teachers



Thank you

