

A look into SUTD's learning, exploration, notable achievements and success

September 2025

In the spotlight



The application of GPT-4 in grading design university students' assignment: an exploratory study

International Journal of Technology and Design Education

SUTD Authors: Huang Qian, Thijs Willems, Poon King Wang

This study explored whether GPT-4, a powerful AI, can help grade university design assignments, which are often open-ended and difficult to evaluate consistently. Normally, human instructors may give very different grades for the same project because design work is subjective and creative.

The researchers tested GPT-4 in several stages, first using it in a general way, then refining it with grading rubrics and good examples. Over time, GPT-4 became much more consistent with human graders, reaching reliability levels similar to what is expected in formal educational settings. It also produced stable results when grading the same work at different times.

Beyond grading, GPT-4 provided useful feedback, offering students quick guidance to improve their projects. The study shows that, with careful setup, Al can support teachers by making grading fairer, more consistent, and less time-consuming, while still leaving final judgment to human instructors.



"Normally, human instructors may give very different grades for the same project because design work is subjective and creative.

The study shows that, with careful setup, Al can support teachers by making grading fairer, more consistent, and less still time-consuming, while leaving final judgment to human instructors."

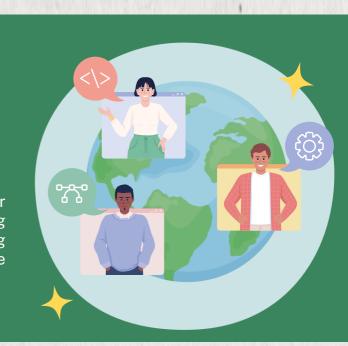
- Huang Qian

Incites

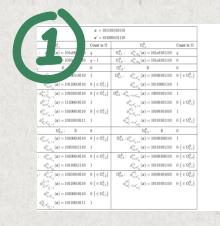
as easy as ABC

Analyze Benchmark Collaborate

With InCites, benchmark your research, discover collaboration opportunities, and identify leading journals. Support grant proposals and publishing strategies with reliable data that highlights the visibility, impact, and global reach of your work.







Sequence Reconstruction for the Single-Deletion Single-Substitution Channel IEEE Journal On Selected Areas In Information Theory

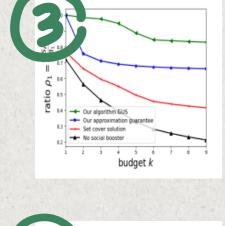
SUTD Authors: Song Wentu, Cai Kui, Tony Q. S. Quek SMT, ISTD



Inter-star: A modified multi A-star approach for inter-reconfigurable robots Expert Systems With Applications

SUTD Authors: Ash Yaw Sang Wan, Yang Zhenyuan, Gen Moo Chee, Muthugala M.

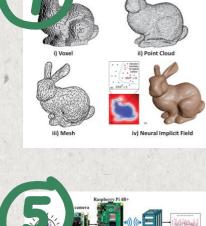
A. Viraj J., Mohan Rajesh Elara ROAR Lab (EPD)



Social Information Distribution IEEE Transactions On Network Science And Engineering SUTD Authors: Li Songhua; Duan Lingjie

Staying Fresh: Efficient Algorithms for Timely

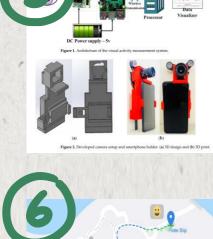
ESD



ACM Computing Surveys SUTD Author: Foo Lin Geng. ISTD

Al-Generated Content (AIGC) for Various Data

Modalities: A Survey



Activity Measurement System Journal Of Eye Movement Research SUTD Author: Prithvi Krishna Chittoor

Smartphone Engagement Through

Digital Eye Strain Monitoring for One-Hour

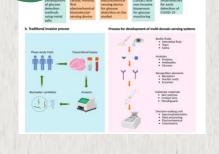
Journal Of Big Data



SUTD Authors: Liu Junhua, Kristin L. Wood, Lim Kwan Hui

Optimizing group utility in itinerary planning: a

strategic and crowd-aware approach



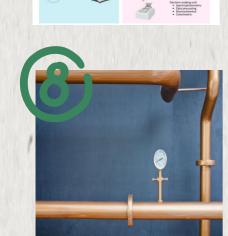
Multidomain Molecular Sensor Systems, and Algorithms for

Physiological Monitoring

Micromachines

SMT, Al Mega Centre

SUTD Authors: Go Shao-Xiang, Natasa Bajalovic, Desmond K. Loke



Voice of Koji: an ethnography of a Japanese sake brewery

Journal Of Organizational Ethnography SUTD Authors: Thijs Willems LKYCIC

Devices.

Improved