

In the spotlight

Words to Describe What I'm Feeling: Exploring the Potential of AI Agents for High Subjectivity Decisions in Advance Care Planning

Association for Computing Machinery (ACM) CHI Conference on Human Factors in Computing Systems

SUTD Author: Kellie Yu Hui Sim, Chenyu Zhao, Swarangi Subodh Mehta, Kenny Tsu Wei Choo

As societies age, many people may face a future where no one is available to make critical medical decisions if they lose decision-making capacity. To address this, we developed ACPAgent, an AI tool that users train with their personal values for Advance Care Planning, the process of expressing preferences for future medical care. Participants agreed with its recommendations nearly 87% of the time, suggesting that AI could accurately reflect a person's wishes.

Beyond recommending decisions, ACP Agent helped participants clarify their values and reflect on difficult end-of-life situations, and was envisioned as a personal advocate that could represent and defend their preferences in care discussions. Participants also described roles for such systems as decision-support tools, educational tools, legal proxies, and proxies with human sign-off. Our work highlights both the promise and risks of AI in sensitive healthcare decisions, and also received a CHI 2026 Honourable Mention Award (top 5% of submissions).



"ACPAgent helped participants clarify their values and reflect on difficult end-of-life situations, and was envisioned as a personal advocate that could represent and defend their preferences in care discussions"

- Kellie Sim



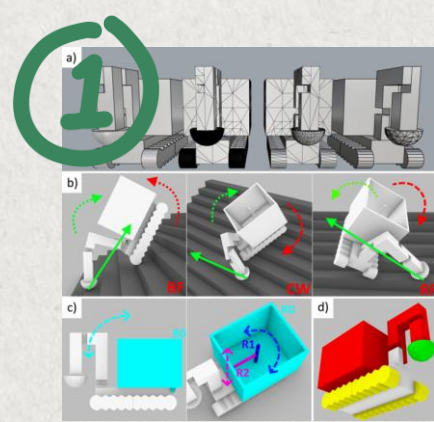
BEFORE THEY'RE GONE

We'll be saying goodbye to a few resources as their subscriptions come to an end:

ASME Digital Collection: access until 30 June 26

If you're currently using these, do download or save any materials you may need ahead of time. Feel free to reach out to us if you'd like help with alternative resources.

TRAILBLAZERS



A reinforcement-learning-based fall mitigation system for stair-traversing service robots

Results In Engineering

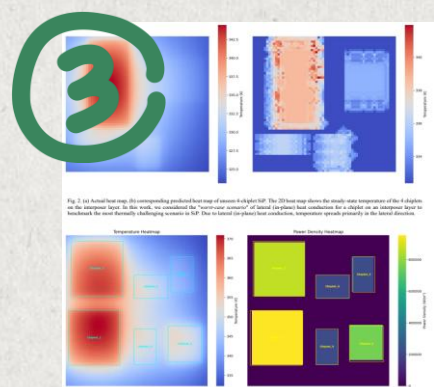
SUTD Authors: Ong Jun Hua, Yang Zhenyuan, S. M. Bhagya P. Samarakoon, Mohan Rajesh Elara
ROAR Lab



More-Than-Debt: Affective Topologies of Buy-Now-Pay-Later (BNPL) Platforms in Singapore

Transactions Of The Institute Of British Geographers

SUTD Author: Gordon Tan Kuo Siong
HASS



Physics-Informed Graph Convolutional Neural Network for Scalable, and Accurate Thermal Analysis of 2.5D Chiplet-based Systems

2025 IEEE 27th Electronics Packaging Technology Conference

SUTD Authors: Rahul Sahay, Nagarajan Raghavan
EPD



Japanese Settlers' Introduction of Dynamite to Truk in the 1890s

Itinerario-Journal Of Imperial And Global Interactions

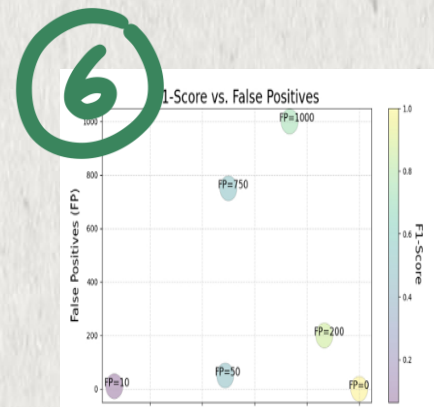
SUTD Author: Takahiro Yamamoto
HASS



Unpacking Community Engagement: Examining Enablers and Barriers Through the Lens of Self-Determination Theory

Journal Of Community Practice

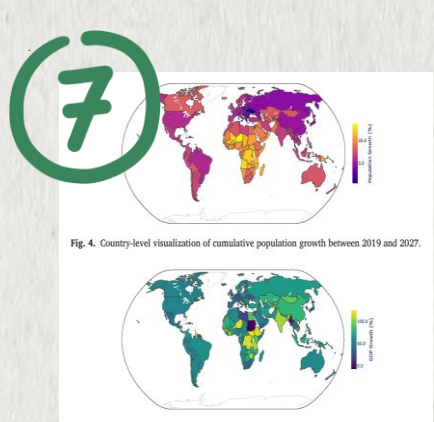
SUTD Author: Yohei Kato
LKYCIC



Research note: The impact of absolute false positive rates on the operational reliability of anomaly detectors in critical infrastructure

Reliability Engineering & System Safety

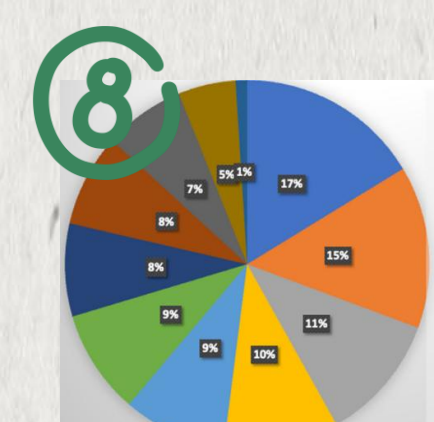
SUTD Authors: Muhammad Azmi Umer, Aditya P. Mathur
ITRUST



Hub competition and demand modeling in long-haul aviation markets: A forward-looking scenario-based game-theoretical approach

Transportation Research Part E-Logistics And Transportation Review

SUTD Authors: Li Mingmei, Nuno Antunes Ribeiro
ASI, ESD



Lean Implementation in Singapore: A Survey in SMEs of the Precision and Electronics Manufacturing Industry

Information

SUTD Authors: Yeoh Keat Chin, Arlindo Silva
EPD

