

#### Centre for Information Integrity and the Internet

Wee Kim Wee School of Communication and Information

# What's IN-cubating? Jan - Mar 2024

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### **Upcoming Events**

17 April 2024
Digital divides, human migration & mobile technology, and youth activism

Time: SGT: 20:30 to 22:00 Venue: Zoom



19 April 2024 Al & Fake News Workshop

Time: SGT 13:00 to 17:00 Venue: Matchbox @ Mothership (Limited Seats)





Prof Edson Tandoc Director, IN-cube

IN-cube is celebrating its third anniversary with a panel on AI and Fake News to be held on April 19, 2024 at Matchbox @ Mothership. This panel is part of the month-long Ideas Festival 2024 organised by the Singapore Social Science Research Council (SSRC).

We are also launching a new lab under INcube: the Laboratory for Online information Research and Education (LORE). Spearheaded by Assoc Prof. Lee Chei Sian, LORE emphasizes interdisciplinary research by fo-

cusing on education and the development of competencies in navigating digital environments as well as evaluating and utilising online information. It examines individuals' online behaviors, motivations, participation patterns, and the impacts of diverse interaction mechanisms.

In this newsletter, we also share our activities in the first quarter of 2024. First, we have started analysing data from the Wave 7 of our State of the Internet and Media in Singapore (STIMS) panel survey. Second, we also complemented Wave 7 with a survey of university students in Singapore, focusing on their internet and generative AI use (see next article).

Third, our faculty researchers also participated in various research initiatives in Singapore as well as in other countries, continuing our efforts at public engagement. Finally, we also share two new publications that examined various communication and technology practices during the COVID-19 pandemic: contact tracing and fact-checking. You will find more details below.

# Al in the classroom? Singapore students say OK to use ChatGPT for assignments

Most university students in Singapore believe that using generative AI, such as ChatGPT, to write graded school assignments is acceptable.

This is based on an online survey conducted in January this year by the Centre for Information Integrity and the Internet (IN-cube) involving 570 undergraduate and graduate students from the six universities in Singapore.

Nearly 71% of the participants said they think their instructors or professors would find it acceptable for students to use ChatGPT in graded writing assignments.

When asked about their perceptions of other students using ChatGPT in their graded writing assignments, some 69% also said they found this to be acceptable.

At least 43.2% of the survey respondents said they used ChatGPT for their graded writing assignments often or very often in the previous semester.

IN-cube has noted an increasing trend in the number of adults who use ChatGPT in Singapore, citing results from its panel surveys conducted every six months.

But the use of generative AI has also elicited some concerns, such as the risk of plagiarism and cheating, especially in the context of using it in school.

In the January survey, IN-cube also asked the student-participants to indicate how they are using ChatGPT in school.



The most popular use is for seeking information and conducting research, with 44.2% of the respondents saying they use ChatGPT for this purpose often or very often.

This is followed by using ChatGPT to translate text (42.8%), edit grammar (42.3%), and rephrase sentences and paragraphs (40%). At least 38.2% said they use ChatGPT to write graded assignments.

The reason for using generative AI in schoolwork? At least 50% of the respondents agreed that using ChatGPT would help them to get better marks or scores.

Some 49% also agreed that doing so will enhance task effectiveness, while 47.7% agreed that it will enhance the quality of their task completion.

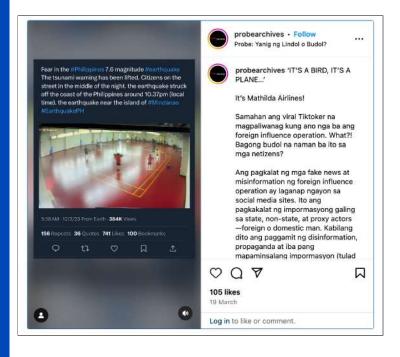
"It seems that many students see benefits from using ChatGPT in their schoolwork," Professor Edson Tandoc Jr., IN-cube's Director, said. "However, we must also guide our students in using the tool in ways that enhance, rather than undermine, their learning and development."

# **Public Engagement**



Supported by the National Youth Council, Singapore Movement for Good, the Media Literacy Council, and in partnership with TouchAi Network Health Services, the #SUPERKIND campaign, launched by Asst Prof Edmund Lee's FYP group, aims to foster a more inclusive and positive online environment, raising awareness about cyberbullying among Singapore's youth.

Their efforts are reported in the Chineselanguage news Lianhe Zaobao. Read more about the campaign: #SUPERKIND.



Prof Edson Tandoc Jr. took part in an initiative by Probe Productions, a multi-awarded media organisation in the Philippines, that tackles the serious issue of disinformation during disasters.

In this 11-minute video made for Instagram, Professor Tandoc shares his insights about why many people become vulnerable to disinformation in times of uncertainty. This is part of Probe Productions' series of initiatives to increase public awareness on disinformation and influence operation campaigns in the Philippines. Watch the Instagram reel here.



Assoc Prof Chen Lou presented the preliminary findings from her Digital Advertising and Consumer Psychology Lab in a presentation titled, "Al Synthetic Advertising: Regulations and Ethical Concerns" during the Session on "Generative AI – Applications, Ethics, and Legal Concerns" at the American Academy of Advertising's Annual Conference. The conference was held from March 14-17, 2024 in The Nines Hotel, Portland, Oregon, USA. This project investigates elderly's perceptions, attitudes, behaviours, and experiences in relation to social media use, with a focus the platform's affordance and the wellbeing of the elderly.

### **Publications**

# JMIR MHEALTH AND UHEALTH The Roles of Trust in Government and Sense of Community in the COVID-19 Contact Tracing Privacy Calculus: Mixed Method Study Using a 2-Wave Survey and In-Depth Interviews Hyunjin Kang<sup>1</sup>, PhD; Jeong Kyu Lee<sup>1</sup>, PhD; Edmand WJ Lee<sup>1</sup>, PhD; Cindy Toh<sup>3</sup>, BA Carresponding Author: Hyunjin Kang, PhD Wee Kin Wee School of Communication and Information Nanyang Technological University 31 Nanyang Link Shappore, 637718 Singapore Singapore Phone: 65 69083431 Emil: https://onte. Abstract

Background: Coract tracing technology has been adopted in many countries to add in identifying, evaluating, and handling infolydatals who have had contact with those infected with COVID-13. Stepgone-was among the countries that actively implemented the government led contact tracing program hasown an TraceTogether Despite the benefits the contact tracing program long provides to individuals and the contenuity, privacy issues were a significant barrier to individuals acceptance of the program.

provide to individuals and the consensity, privacy issues were a significant fourier to individuals acceptance of the program. Objective: Building on the privacy acceptance and objective the facility on the privacy acceptance and community memberal involved in the digital connect tracing factor into individuals' privacy calculates of digital connect tracing factor into individuals' privacy calculates of digital connect tracing. Methods: Using a mixed method appeared, we conducted [1] 0.8 - sawes survey [6]—470 and 20] obserph interviews (no.172 with Trace Toppeler users in Singapore, Using structural equation modeling, this study investigated how trust in the powerment and the users of community exhibited by individuals during the runly sings of implementation (time 1); predicted privacy concerns, perceived benefits, and future use intensitions, measured after the program was fully implemented (time 2). Expanding on the survey results, this study conducted one-on-one interviews in gain in depth insights into the privacy considerations involved in digital context tracing.

urely results, this study construction to a second that trust is the government increased perceived benefits while decreasing perlogical context study. He results from the survey showed that trust is the government increased perceived benefits while decreasing perlogical context specified use of Theoritegather Furthermore, included also believe in its herefits. The sense of community members by participate
in the program (ii), the sense of community) were more included to believe in its herefits. The sense of community also plays
not observed in eliminates of government trust on proceedin benefits. Fallow up in depth intervent, heighlighted that is, sense of correct over information and transparency in the government's data management were crucial factors in pertracely inspire so. In addition, our florings revealed that treat in the government, particularly the preceived transparency
percentent actions, us most strongly associated with concerns regulated the contently use of data.

government actors, was most strongly associated with concerns regulating the secondary use of data. Conclusions: Using a mixed method approach involving a 2-wave survey and in depth interview data, we expanded our understanding of privacy decisions and the privacy calculus in the context of digital contact tracing. The exposite influences of privacy contexts and preview themself on one interaction aggregate that the privacy calculus in Taxer Engoletic might be visioned as a rational process of weighing between privacy ticks and use benefits to make an uptake decision. However, our study demonstrated that existing previous insward the provider and the government in the contact tracing contexts, as well as the prevention of the content tracing contexts, as well as the prevention of the content tracing contexts, as well as the prevention of the content tracing contexts, as well as the prevention of the content prevention is such as the province of the content tracing contexts, as well as the prevention of the content tracing.

(IMIR Mhealth Uhealth 2024; 12:e48986) doi: 10.2156/48986

## **Roles of Trust & Sense of Community**

Together with overseas collaborators, Assoc Prof. Hyunjin Kang and Asst Prof. Edmund Lee published a paper on the roles of trust in Government and Sense of Community in COVID-19 Contact Tracing. Using a 2-wave survey (n=674) and in-depth interviews (n=12) with Trace-Together users in Singapore, they found that trust in the government increased perceived benefits while it decreased privacy concerns regarding the use of TraceTogether.

Furthermore, the sense of community also played a moderating role in the influence of government trust on perceived benefits.

Read more: doi.org/10.2196/48986



ASSERDACT This study is based on a content analysis of 228 forwarded messages sent to a public fast-the-sking group on Whatdopp in Siepapore during the first its months of the COMD-19 panelment for the public proper of the public proper of

1. Introduction

The rise of fake news and other types of online false-hoods has put the onus of information checking and authentication on individual users. While journalists and news organisations used to have control over the public dimensionation of newaverthy information and thereby engaged in verification on behalf of the public, social media platforms have allowed morpouralists to access a potentially mass undience, and individual users to customise their news consumption by excited which information sources to follow and which messages to subsequently create or share to others. (Tewshory and Rittoberg 2012). But while sudiences now have more control over their information dist, they may not have the adequate training, time, resources, or motivation to fact-check all the pieces of information they consuler (Pronycook and Rand 2019). This has, unfortunately, given rise to the spread of ordine falsehoods that, as the world witnessed during the COVID19-19 prandemic, can cause real harm, as some individuals not only believe in but also wittingly or anywhitingly share insecuents. cause real tarm, as some individuals not only betteve in but also wittingly or unwittingly share inaccurate information, increasing their reach (Pian, Chi, and Ma 2021).

A response to the spread of online falsehoods is the emergence of fact-checking initiatives in many countries (Vijaykumar et al. 2021). The Duke Reporter's Lab (n.d.) has identified more than 300 fact-checking initiatives globally as of March 2023. These initiatives globally as of submit any claims they encounter, such as via messaging apps, for fact-checking, for example, a group of unitary sudents in Singapore set up a WhatApp group shere members can share claims they think need to be fact-checked (Lee 2020). However, nor many people where members can share claims they think need to be fact-checking information in a period marked by the second of false news, understanding what makes individuals engape in fact-checking elifon far far period in the production of journalists to engage in fact-checking felton (E.g. Graves, Nyhan, and Reifler 2016; Lefo 2022). These studies found that journalists to date and the impact on their periodicum of journalists to engage in fact-checking elifon and Reifler 2016; Lefo 2022.) These studies found that journalists to engage in fact-checking elifon, and Reifler 2016; Lefo 2022.) However, in a period when the onus of fact-

2022). However, in a period when the onus of fact

# Fact-Checking in WhatsApp groups

This journal article analysed 238 forwarded messages sent to a public fact-checking group on WhatsApp in Singapore during the first six months of the COVID-19 pandemic. It found that the most common topic was public policy and action; most of the messages focused on negative aspects; and nearly half of the messages were either partly or entirely inaccurate.

As the situation worsened in Singapore, with number of cases increasing and more regulations implemented by the government, the messages shared to be authenticated focused more on public policy, became more negative, and contained more inaccuracies. These findings indicate that the types of information people seek to authenticate are those that have utility; are important and consequential; are likely to inform their actions and decisions; and can aid them in sense-making. Read more: doi.org/10.1080/0144929X.2024.2318613

# **Upcoming Events**



IN-cube is co-organising a webinar with the International Communication Association's Communication and Technology Division on April 17, 2024 (SGT time: 20:30 to 22:00).

The webinar will discuss Global Dialogue on Communication Technology (Session 2): Digital divides, human migration & mobile technology, and youth activism.

Prof. Rich Ling will be moderating the session. Register here!



Sign up now here (Limited Seats)

The AI & Fake News Panel (April 19, 2024, 13:00 to 17:00) at Matchbox @ Mothership seeks to continue, expand, and deepen conversations around, and interventions targeted at, the problem of fake news as artificial intelligence makes it an even more formidable threat. This proposed workshop will bring together academic, policy, and industry partners and will focus on three main areas:

- Examining the role of AI in exacerbating the fake news problem
- 2. Exploring Al-powered solutions for fact-checking and detection
- 3. Addressing ethical and regulatory considerations in managing AI.

#### **About IN-cube**

IN-cube stands for Centre for Information Integrity and the Internet, a research centre at the Wee Kim Wee School of Communication and Information at Nanyang Technological University Singapore. It aims to contribute to promoting information integrity in online spaces, especially in an era of misinformation and disinformation, through timely, rigorous, and relevant research that links academics, policymakers, industry players, and the public. Learn more about IN-cube by visiting our website: ntu.edu.sq/incube

Contact us at incube@ntu.edu.sg

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