



Digital Overground

Cybersecurity and Privacy Institute Student Newsletter



Ever wonder what people are looking at in stock photos? Does the photographer just say, “Pretend there’s something absurdly interesting and delightful 10 feet to your right and up 17 degrees?”. Regardless, here is the July edition of Digital OverGround; we hope that you, in your own lives, have the occasion to stare at something intriguing out of frame while someone takes your picture, within a summer vacation context! 😊

If you are interested in contributing to this newsletter, please email us at [CPI Students <cpi.students@uwaterloo.ca>](mailto:cpi.students@uwaterloo.ca) we welcome the help!

Upcoming Events

[Get to Know the Grand Scavenger Hunt](#)

[Pupulates | Pups and Poses](#)

[Bingemans Big Splash Night Swim](#)

[WICI Workshop: People Need People - A Warm Data Lab Approach](#)

[New Writing and Communication Support Services for Grad Students: Focus Groups](#)

[Centre for Peace Advancement 10th Anniversary](#)

[Gidinawendamin/Ska'nikú•lát 21st Annual Pow Wow](#)

[News Feast of St. Jerome | Annual Fundraiser for Student Scholarships](#)

Student Support and Resources

[Campus Wellness and Counselling Services](#)

[CPI for Students](#)

[Current Students Pathways](#)

[CPI Undergraduate Award](#)

[CPI Excellence Graduate Scholarship](#)

[The Vector Digital Talent Hub](#)

Research

[Information Systems Control: A Review and
Framework for Emerging Information Systems](#)

[Processes](#)

CPI Member W. Alec Cram, Kathryn Brohman, & R. Brent Gallupe

[Dissecting Residual APIs in Custom Android ROMs](#)

Zeinab El-Rewini & COI Member Yousra Aafer

[Algorithmic control and gig workers: a legitimacy
perspective of Uber drivers](#)

Martin Wiener, CPI Member W. Alec Cram, & Alexander Benlian

Examining the Impact of Algorithmic Control on
Uber Drivers' Technostress

CPI Member W. Alec Cram, Martin Wiener,
Monideepa Tarafdar, & Alexander Benlian

Android SmartTVs Vulnerability Discovery via Log-Guided Fuzzing

CPI Member Yousra Aafer, Wei You, Yi Sun,
Yu Shi, Xiangyu Zhang, & Heng Yin

Null controllability of Grushin-type operators in dimension two

K. Beauchard, P. Cannarsa, & R. Guglielmi

A model for COVID-19 with isolation, quarantine and testing as control
measures

M.S. Aronna, R. Guglielmi, & L.M. Moschen

Open Calls

The [Vector Digital Talent Hub](#) encourages students to create profiles on their website to apply for a variety of employment opportunities. | Vector Institute

[ICITST 2024 : International Conference for Internet Technology and Secured Transactions](#)

[New York Annual Conference on Cyber Security 2024](#)

[December 14-15, 2024,](#)

[New York City](#)

[International Journal on Cybernetics & Informatics \(IJCI\)](#)

[WatITis 2024 Conference](#)

In the Media

- **Podcast of the Month: [Cybersecurity Today – In this episode of Cyber Security Today, host Jim Love covers a significant global outage affecting Microsoft's cloud services, a vulnerability in WhatsApp that allows malicious scripts to run without warning, and a new AI-power](#)**
- **[I Studied Data Job Trends for 24 Hours to Save Your Career! \(ft Datalore\)](#)**
- **[Credit card cloning is too easy! How to protect folx](#)**
- **[Make EPIC Fake Sets for VIDEO with AI Tools | AI YouTube Studio Setup](#)**
- **[Microsoft Bows to Public Pressure, Disables Controversial Windows Recall by Default](#)**
- **[CoSAI: Tech Giants Form Coalition for Secure AI](#)**
- **[Can AI be Meaningfully Regulated, or is Regulation a Deceitful Fudge?](#)**

- [Siemens Patches Power Grid Product Flaw Allowing Backdoor Deployment](#)
- [Microsoft Says Azure Outage Caused by DDoS Attack Response](#)

Seen anything that you think should be on this list for our next edition? Let us know!

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Student Spotlights

I Know What You Cloned Last Summer

Our July student spotlight is from Sina Kamali/CS - Supervisor: Diogo Barradas with his poster: [I Know What You Cloned Last Summer](#).

In recent years, internet censorship has evolved in various ways. Censoring governments in multiple countries are resorting to more extreme measures to block users' access to materials deemed sensitive. To tackle these blocking mechanisms, several censorship circumvention tools have been developed to allow citizens to access blocked Internet content. Many of these censorship circumvention tools are hosted on GitHub. Thus, GitHub has always been a prime target for censoring countries. However, due to the critical role of GitHub in the socio-economical tissue of developed countries, it is rarely blocked. However, this doesn't necessarily imply that resourceful countries like China will give up on devising techniques to monitor users' activities on the website. In this ongoing work, they are paving the way to answer the following question: "Is the access to GitHub repositories trackable?" To do so, they first collect three representative GitHub repository datasets. Then, they adapt Website Fingerprinting techniques, tailoring them to perform a large-scale closed-world (the user can choose between a predetermined set of repositories) attack to determine the performance of their approach. The team concludes that this is a possible attack with closed-world results showing accuracies upwards of 95%.

[Find Out More about Digital Overground](#)

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