



# CYBERSECURITY INNOVATION DAY 2022

## PROGRAMME GUIDE

AN INITIATIVE BY:



POWERED BY:



SUPPORTED BY:



# PROGRAMME



**Welcome Address**  
Mr Brian Koh  
Director, NUS Enterprise

**1:00 PM**



**Opening Address**  
Dr Janil Puthuchery  
Senior Minister of State, Ministry of  
Communications and Information &  
Ministry of Health, Singapore

**1:05 PM**



**CyberCall 2021 Award Ceremony**

**1.15 PM**



**Introduction of CyberCall 2022**

**1:30 PM**



**Launch of CyberCall 2022  
Challenge Statements**

**1:45 PM**



**Tea Reception, Networking and  
Booth Visits**

**2:30 PM**

# CYBERSECURITY INDUSTRY CALL FOR INNOVATION



## CYBERCALL PROGRAMME ANNOUNCED BY THEN-DPM TEO CHEE HEAN

The Cybersecurity Industry Call for Innovation programme was officially announced at the opening of Singapore International Cyber Week (SICW) on 18 September 2018.

## 10 PROJECTS AWARDED AT THE INAUGURAL CYBERSECURITY INNOVATION DAY 2019

The inaugural Cybersecurity Innovation Day 2019 was held on 1 August 2019 at Marina Mandarin Ballroom with over 400 attendees.



## OVER 500 ATTENDEES AT FIRST-EVER VIRTUAL CYBERSECURITY INNOVATION DAY 2020

The Cybersecurity Innovation Day 2020 was held as an online event on 30 July 2020 due to the COVID-19 situation. A total of 9 projects were awarded.

## VIRTUAL LAUNCH OF CYBERCALL 2021

CyberCall 2021 was launched on 31 August 2021 to bring together the cybersecurity ecosystem for innovation and adoption. Given the COVID-19 situation, the event was streamed online and garnered over 300 online attendees.



## CYBERSECURITY INNOVATION DAY 2022

First in-person event since COVID-19, featuring the award ceremony for the CyberCall 2021 and launch of the CyberCall 2022.

# CYBERCALL 2021 TECHNICAL EXPERTS



**Prof. Anupam Chattopadhyay**  
Associate Professor,  
School of Computer Science  
and Engineering  
Nanyang Technology University



**Michael Lew**  
Chief Executive Officer  
Rajah & Tann Technologies



**Prof. Liu Yang**  
Professor,  
School of Computer Science  
and Engineering  
Nanyang Technology  
University



**Prof. Alex Siow**  
Professor (Practice),  
School of Computing  
National University of  
Singapore



**Dr. Viviv Suhendra**  
Executive Director  
Singapore Cybersecurity  
Consortium



**Emil Tan**  
Co-Founder  
Division Zero (Div0)



**Ashish Thapar**  
Vice President & Head Security  
Consulting (Asia Pacific)  
Nippon Telegraph and  
Telephone



**Prof. Gao Debin**  
Associate Professor,  
School of Computing and  
Information Systems  
Singapore Management  
University



**Prof. Abhik Roychoudhury**  
Professor, Computer Science  
National University of  
Singapore

# CYBERCALL 2021 AWARDEES

**Awarded  
Company**

**Awarded  
Project**

**Company  
Representative**



Cybersecurity Risk  
Assessment and Audit  
Data Analytics

**James Kang**  
Chief Executive Officer  
Amaris.AI Pte Ltd



Defending AI Systems  
and Fighting DeepFakes

**James Kang**  
Chief Executive Officer  
Amaris.AI Pte Ltd



Decentralised Security  
for Shipping

**Richard Wagner**  
Regional Director APAC  
CyberOwl Pte Ltd



Flexxon X-SYS System  
Defender

**Camellia Chan**  
Chief Executive Officer  
and Founder  
Flexxon Pte Ltd

# CYBERCALL 2021 AWARDEES

**Awarded  
Company**

**Awarded  
Project**

**Company  
Representative**



Cloud Security X

**Jonathan Phua**  
Chief Executive Officer  
Insider Security Pte Ltd



Unified IoT Security for  
Connected Products  
Utilising Edge Computing

**Vishram Mishra**  
Chief Executive Officer  
and Founder  
Microsec Pte Ltd



Cybersecurity Risk  
Intelligence Platform  
(Nexus).

**Simeon Tan**  
Co-Founder  
Protos Labs Pte Ltd



Anvil Crawler

**Ori Sasson**  
Director  
Simulation Software &  
Technology (S2T)  
Pte Ltd

# CYBERCALL 2021 AWARDEES

**Awarded  
Company**

**Awarded  
Project**

**Company  
Representative**



Phish-Away

**Ngair Teow Hin**

Chief Executive Officer  
SecureAge Technology  
Pte Ltd



Intelligent Adaptive  
Detection Monitoring  
System for Operational  
Technology

**Kan Pak Leng**

Head, Cyber Security  
Strategic Engineering  
Centre, Group  
Engineering Centre  
ST Engineering  
Info-Security Pte Ltd



Personal Identifiers  
Tokenized on Demand  
(PITOD)

**Emily Tan**

Chief Executive Officer  
and Country Director,  
Thales in Singapore



AMARIS.AI™  
AGILE · INNOVATIVE · TRUSTED

## AMARIS.AI PTE LTD

[www.amaris.ai](http://www.amaris.ai)

Amaris.AI is a leading AI and Cybersecurity company based in Singapore, led by former senior Government executives. Amaris.AI has an extensive portfolio of projects with various profile clients, spreading across different domains such as wealth management, government, telecommunication, logistics and retail.

ARTIFICIAL INTELLIGENCE  
(AI) FOR CYBERSECURITY



### Cybersecurity Risk Assessment and Audit Data Analytics

To build a secure, privacy enhanced system that analyses cyber security risk assessments and audits.

The system exploits the latest AI techniques and will have semantic sensemaking capabilities with search and can create knowledge ontologies specific for the cyber security domain.

#### Interested to find out more?

Contact Ms Rebecca Lim at [enquiries@amaris.ai](mailto:enquiries@amaris.ai)

### TEAM



Rebecca Lim  
AI Data Scientist



Tan Wei Ming  
AI IoT Engineer



Byan Teo  
ML Engineer





AMARIS.AI™  
AGILE · INNOVATIVE · TRUSTED

## AMARIS.AI PTE LTD

[www.amaris.ai](http://www.amaris.ai)

Amaris.AI is a leading AI and Cybersecurity company based in Singapore, led by former senior Government executives. Amaris.AI has an extensive portfolio of projects with various profile clients, spreading across different domains such as wealth management, government, telecommunication, logistics and retail.

ARTIFICIAL INTELLIGENCE  
(AI) FOR CYBERSECURITY



## Defending AI Systems and Fighting DeepFakes

To develop systems and Smart Nation frameworks that will defend AI systems against Adversarial and AI operations attacks.

**Interested to find out more?**

Contact Prof Yu Chien Siang at [enquiries@amaris.ai](mailto:enquiries@amaris.ai)

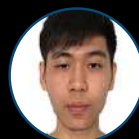
## TEAM



Prof Yu Chien Siang  
Chief Innovation and  
Trust Officer



Dr Patrick Chan  
Co-Founder and Chief  
Technology Officer



Kelvin Soh  
AI Data Scientist



## CYBEROWL PTE LTD

[www.cyberowl.io](http://www.cyberowl.io)

CyberOwl helps asset operators in the maritime and critical national infrastructure sectors to gain visibility of the cyber risks, maintain cyber hygiene and compliance on their distributed, remote assets.

OPERATIONAL TECHNOLOGY  
(OT) SECURITY



### Decentralised Security for Shipping

There are serious technical and operational challenges in securing and controlling remote, operational assets from the centre. CyberOwl is developing a suite of technologies that decentralise security engagement, automation and response for fleets of remote, operational assets, such as those in shipping.

#### Interested to find out more?

Contact Mr Daniel Ng at [daniel.ng@cyberowl.io](mailto:daniel.ng@cyberowl.io)

### TEAM



Daniel Ng  
Chief Executive Officer



Russell Kempley  
Chief Security Officer



Ken Woghiren  
Chief Technology Officer



## FLEXXON PTE LTD

[www.flexxon.com](http://www.flexxon.com)

Founded in 2007 and headquartered in Singapore, Flexxon is a global company that specialises in next-generation hardware cybersecurity solutions. Rooted in its strong pedigree as a leading industrial NAND flash storage solutions provider, Flexxon is committed to protecting the basic rights of all digital citizens through constant innovation.

ARTIFICIAL INTELLIGENCE  
(AI) FOR CYBERSECURITY



### FLEXXON X-SYS System Defender

X-SYS AI Embedded System Defender is a uni-directional intelligent system analysing the memory dump, utilising advanced differential and integration algorithms to provide a reliable end-to-end holistic system protection.

**Interested to find out more?**

Contact Ms Camellia Chan at [camelliachan@flexxon.com](mailto:camelliachan@flexxon.com)

### TEAM



Camellia Chan  
Chief Executive Officer



May Chng  
Chief Operations Officer



Stanley Tan  
Senior Product Director



## INSIDER SECURITY PTE LTD

[www.insidersecurity.co](http://www.insidersecurity.co)

Founded by Singaporean cybersecurity experts in 2015, Insider Security has a track record of developing advanced, homegrown cybersecurity products that are used by listed companies, government and many SMEs today. Insider Security is able to detect internal cyber threat early before there is any serious data loss. Its technology is useful for early detection for supply chain attacks such as SolarWinds and Kaseya cyber attacks.

CLOUD SECURITY



### Cloud Security X

Cloud Security X (CSX) is an innovative solution that makes comprehensive and easy-to-use cloud security available for the first-time. CSX uses advanced analytics and AI to secure all cloud layers, i.e. Infrastructure-as-a-Service, Platform-as-a-Service and Software-as-a-Service. Insider Security CSX makes affordable and effective cloud security available for SMEs and is a game changer for the industry.

#### Interested to find out more?

Contact Mr Jonathan Phua at [jon.phua@insidersecurity.co](mailto:jon.phua@insidersecurity.co)

## TEAM



Jonathan Phua  
Chief Executive Officer



## MICROSEC PTE LTD

[www.usec.io](http://www.usec.io)

Microsec is a deep-tech IoT cybersecurity company, that provides a platform to enable e2e zero trust capability and manage the lifecycle, threats, and vulnerabilities of constrained IoT and OT devices. Microsec combines mathematical optimisation with machine learning to revolutionise cybersecurity in brownfield deployments (agentless) and greenfield (agent-based) deployments.

INTERNET OF THINGS  
(IOT) SECURITY



### Unified IoT Security for Connected Products Utilising Edge Computing

The project will unify IoT security components for consumer IoT devices to provide full cyber-protection capability. These capabilities include vulnerability management, federated anomaly detection, authentication and tampering detection over constrained edge devices and services.

**Interested to find out more?**

Contact Dr. Vishram Mishra at [vishram@usec.io](mailto:vishram@usec.io)

## TEAM



Dr Vishram Mishra  
Chief Executive Officer  
and Founder



Jan Bissinger  
Technical Product Manager



Shazina Zaini  
Senior Software Developer



## PROTOS LABS PTE LTD

[www.protoslabs.sg](http://www.protoslabs.sg)

Protos Labs is a Singapore InsurTech startup that uses a threat-based approach to transform the way enterprises and insurers manage their cyber risks. Protos Labs' threat-based cyber risk quantification platform increases cyber ROI for enterprises, accelerates regulatory reporting for CII and reduces underwriting risk for insurers.

CLOUD SECURITY



### Cybersecurity Risk Intelligence Platform (Nexus)

Protos Labs is building a threat-based cyber risk platform that quantifies an organisation's cyber risks in monetary terms vis-à-vis real-world threat data. This is achieved by unifying the 4 main concepts in cybersecurity - (1) Threats; (2) Vulnerabilities; (3) Controls; and (4) Asset data into a single platform and putting them through advanced cyber loss models for risk calculation. This enhances collaboration between operations, risk and business functions, accelerates executive decision-making and enables cyber ROI measurement.

#### Interested to find out more?

Contact Mr Joel Lee at [joel\\_lee@protoslabs.sg](mailto:joel_lee@protoslabs.sg)

### TEAM



Simeon Tan  
Co-Founder



Joel Lee  
Co-Founder and  
Chief Executive  
Officer



**SIMULATION SOFTWARE &  
TECHNOLOGY (S2T) PTE LTD**  
[www.s2t.ai](http://www.s2t.ai)

S2T is a Singapore-headquartered product company and a world leader in the areas of OSINT and Data Fusion for investigative agencies.

CLOUD SECURITY



## Anvil Crawler

Anvil Crawler aims to be the world's first solution for website and cloud environment digital forensics, designed for law enforcement and investigation agencies. Anvil Crawler will be an AI enabled framework, supporting tamper proof and cyber secure triage, extraction, processing and analysis of content and logs from cloud infrastructure and websites.

**Interested to find out more?**  
Contact Dr. Ori Sasson at [ori@s2t.ai](mailto:ori@s2t.ai)

## TEAM



Dr Ori Sasson  
Director



Hay Hazama  
Founder and Director,  
Matayum Consulting



Adv. Aaron (Ronnie) Eilat  
Consultant



**SECUREAGE TECHNOLOGY  
PTE LTD**

[www.secureage.com](http://www.secureage.com)

SecureAge Technology is a rapidly growing data security company that places security and usability on equal footing. Headquartered in Singapore, SecureAge is trusted by governments, research institutes, and forward-thinking organisations to protect them from the most advanced and persistent cyber threats.

**ARTIFICIAL INTELLIGENCE  
(AI) FOR CYBERSECURITY**



## Phish-Away

SecureAge Phish-Away is Singapore's first and only AI-powered solution that detects and simulates email phishing attacks. Instead of using reactive deny-list solutions, Phish-Away pits the detectors and simulators to build machine learning engines that will provide zero-day detection against email phishing attacks.

**Interested to find out more?**

Contact Ms Agustina Shi at [asan@secureage.com](mailto:asan@secureage.com)

## TEAM



Agustina Shi  
Software Architect



Hendy Chandra  
Principal Software Architect



Benjamin Ni  
Lead Software Engineer





**ST ENGINEERING INFO-  
SECURITY PTE LTD**

[www.stengg.com/cybersecurity](http://www.stengg.com/cybersecurity)

ST Engineering cybersecurity has over two decades of experience in delivering a holistic suite of trusted cybersecurity solutions to empower cyber resilience for government and ministries, critical infrastructures and commercial enterprises. ST Engineering offers robust cyber-secure products and services in cryptography, cybersecurity engineering, digital authentication, SCADA protection, audit, and compliance to secure what matters.

**OPERATIONAL TECHNOLOGY  
(OT) SECURITY** 

## **Intelligent Adaptive Detection Monitoring System for Operational Technology**

This project is an AI-based cyber solution that is built on a customised Machine Learning Operations (ML Ops) platform to provide transparency and control to users, while aiding in early detection of complex cyber breaches as well as differentiating cyber events from equipment faults.

**Interested to find out more?**

Contact Mr Kan Pak Leng at [kan.pakleng@stengg.com](mailto:kan.pakleng@stengg.com)

### **TEAM**



**Kan Pak Leng**  
Head, Cyber Security  
Strategic Engineering Centre,  
Group Engineering Centre



**Tan Chin Hua**  
Asst Vice President,  
ICS Cybersecurity  
Division



**Ivan Lee**  
Assistant Vice President,  
Capability Development  
(OT/IoT Cybersecurity)



**Esther Gloria Dawes**  
Assistant Principal  
Engineer, Cybersecurity,  
GEC

## THALES IN SINGAPORE

[www.thalesgroup.com](http://www.thalesgroup.com)

Thales is a global leader in advanced technologies, including connectivity, big data, artificial intelligence, cybersecurity and quantum technologies. Thales' solutions are cybersecured by design, leveraging the expertise of 5000 IT security engineers worldwide to provide national security in 50 countries and to protect critical information systems for over 130 clients globally.

PRIVACY-ENHANCING  
TECHNOLOGIES



### Personal Identifiers Tokenized on Demand (PITOD)

Thales' innovative solution (Personal Identifiers Tokenized On Demand - PITOD) is the first on the market that will help users automatically discover, securely process and tokenize personal information stored within the organisation. The solution will allow users to conduct secure data sharing efficiently and automatically, thereby reducing human effort.

**Interested to find out more?**  
Contact Dheeraj Chandwani at  
[dheeraj.chandwani@asia.thalesgroup.com](mailto:dheeraj.chandwani@asia.thalesgroup.com)

### TEAM



Dheeraj Chandwani  
Senior Business Manager,  
Cyber Defense Solutions



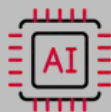
Neil McElhinney  
Regional Director (APAC),  
Cyber Defense Solutions



Aneeth Ahmed  
Head of Engineering,  
Thales Digital Factory  
Singapore

# CYBERCALL 2022

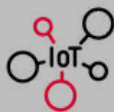
This year's CyberCall is looking for solutions in the following areas:



Artificial  
Intelligence (AI) for  
Cybersecurity



Cloud  
Security



Internet of  
Things (IoT)  
Security



Operational  
Technology  
(OT) Security



Privacy-  
Enhancing  
Technologies

CSA has put together a list of end-users who are looking for solutions in some of the areas mentioned above. In addition to this, we welcome ideas and submissions from industry partners who have innovative ideas that address cybersecurity concerns in sectors such as manufacturing, maritime, healthcare etc.

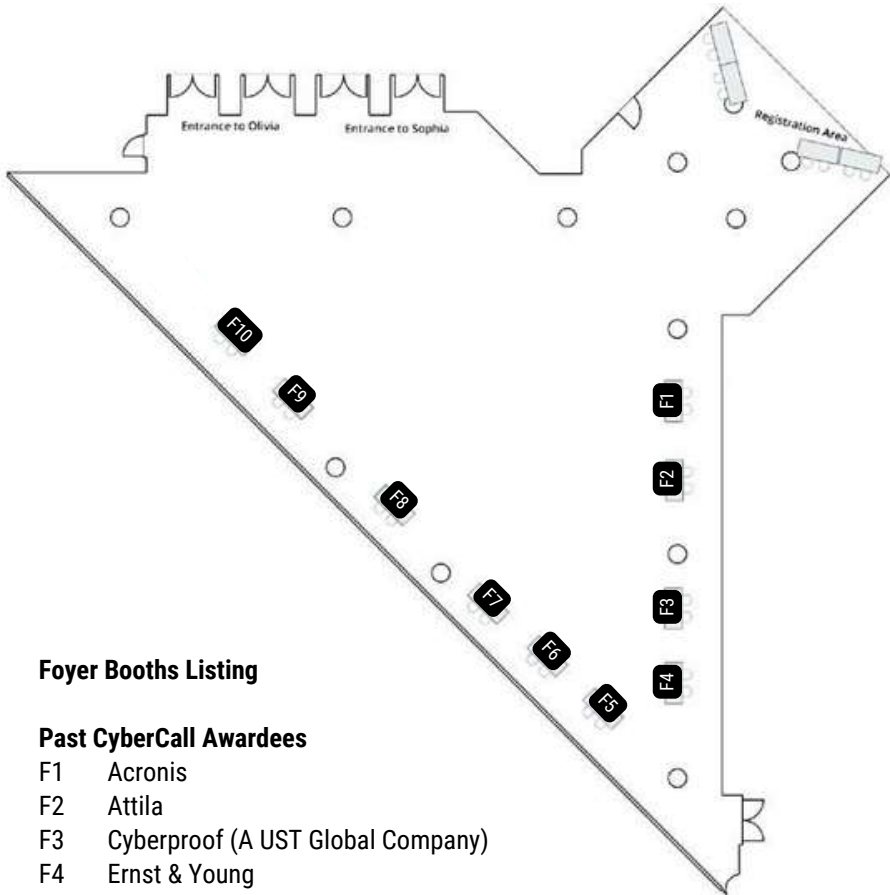
The list of Challenge Statements for CyberCall 2022 are as follows:

- CS01 End-to-End Normalised Threat-based Cybersecurity Risk Management System
- CS02 Automated Governance of Users' Permissions in Multi Cloud Environment
- CS03 Automated Prioritisation of Cloud Drift Remediation in Multi Cloud Environment
- CS04 Non-Intrusive Data Collection from Isolated OT System
- CS05 OT Kernel Prevention of Cyber Attacks
- CS06 OT Threat Vector Path Discovery on Digital Asset Map
- CS07 Privacy Preserving Digital Forensics
- CSOC Open Category

[VIEW FULL CHALLENGE STATEMENTS](#)

# MAP OF STAMFORD FOYER

## Stamford Ballroom Foyer



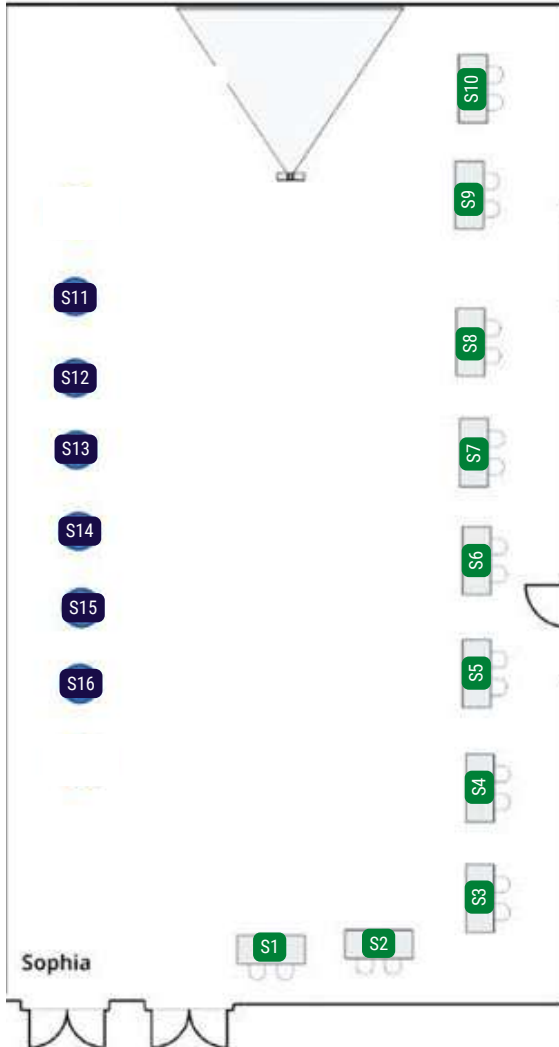
### Foyer Booths Listing

#### Past CyberCall Awardees

- F1 Acronis
- F2 Attila
- F3 Cyberproof (A UST Global Company)
- F4 Ernst & Young
- F5 GroupIB
- F6 Power Automation
- F7 Scantist
- F8 Seagate
- F9 SecureIC
- F10 TAU Express

# MAP OF SOPHIA ROOM

## Sophia Room



### Sophia Room Booths Listing

#### CyberCall 2021 Awardees

- S1 Amaris.AI
- S2 CyberOwl
- S3 Flexxon
- S4 Insider Security
- S5 MicroSec
- S6 Protos Lab
- S7 S2T
- S8 SecureAge
- S9 ST Engineering
- S10 Thales

#### CyberCall 2022 End Users

- S11 GIC
- S12 HTX
- S13 Mediacorp
- S14 PacificLight
- S15 SMRT
- S16 SP Group



# CYBERCALL 2022 CALL FOR PROPOSALS IS NOW OPEN

[CYBERCALL.SG](https://cybercall.sg)

## MEET THE END USERS THIS SEPTEMBER

15 SEP 2022 | 22 SEP 2022 | 29 SEP 2022

Visit [cybercall.sg](https://cybercall.sg) or email [info@cybercall.sg](mailto:info@cybercall.sg) for more information.

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