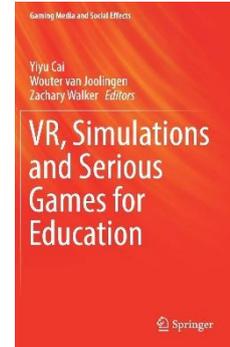


FELLOWS SHOWCASE: CAI YIYU

Cai Yiyu, is an Associate Professor, School of Mechanical and Aerospace Engineering, College of Engineering. He heads The Computer-aided Engineering Labs and The Strategic Research Program of Virtual Reality and Soft Computing. His interdisciplinary research is related to Virtual & Augmented Reality (VAR), Robotics, Artificial Intelligence (AI), and their applications in Building & Construction, Healthcare and Education.



#DYK

- Prof Cai is actively involved in industry-oriented project research & development, he is the Principal Investigator with the Intelligent Building Imaging Group at the SJ-NTU Corp Lab and the Underwater Robotics Group at the SAAB-NTU Joint Lab.
- His research has been supported by public funding agencies and private companies such as National Research Foundation, Temasek Trust Funded Singapore Millennium Foundation, Ministry of Education, ASTAR, Ministry of Information, Communication, and The Arts.
- Dr Cai teaches a class on the Metaverse at NTU.

#nisthreads: Prof Cai's latest publications include:

- [Multi-center evaluation of artificial intelligent imaging and clinical models for predicting neoadjuvant chemotherapy response in breast cancer](#)
- [BIM4D-based scheduling for assembling and lifting in precast-enabled construction](#)
- [Fast 3D Modeling of Prosthetic Robotic Hands Based on a Multi-Layer Deformable Design](#)
- [Design and development of a virtual dolphinarium for children with autism](#)

More details on our social media platforms this week:



NISTH EVENTS



Deadline for submission: 2359hrs GMT+8, 15 June 2022

2nd Global Digital Art Prize (GDAP)

Taking the form of a biennial competition, the NTU Global Digital Art Prize (NTU-GDAP) is where artistry, technological innovations and scientific interests collide. It recognises global artists, technologists and scientists with extraordinary creativity in digitally mediated art, design and cultural heritage. The theme for NTU-GDAP 2022 **is Sustainable People, Inspiring Change**. We seek creative projects at the intersections of science, technology and art that contribute to building more equal, inclusive, and sustainable economies and societies to tackle the global challenges.

More information at: [Here](#)

EVENTS WITH NISTH IAB/FELLOWS/PARTNERS



28 Mar 2022: 1:00 PM – 2:30 PM

ADL+: AI for cognitive monitoring and intervention, is part of the NTU Health and Society Research Cluster Seminar Series. **NISTH Fellow Prof Miao Chun Yan**, President's Chair Professor and Chair, School of Computer Science and Engineering (SCSE), will be speaking on the designed & developed ADL+ toolkit, which is the world's first digitized toolkit for longitudinal cognitive monitoring & intervention for delaying the onset of dementia.

More information at: [Here](#)



Science Breakthroughs of the Year 2022 – Deadline: 15 May 2022

The Falling Walls Foundation supports scientists in sharing their knowledge and ground-breaking ideas with the wider society and helps science engage with audiences in innovative and impactful ways. The global search for the **Science Breakthroughs of the Year 2022** is now open. Please refer to the attached flyer for more information on this Global Call for Nominations and feel free to circulate this to your networks, and encourage active nominations of breakthroughs, outstanding science projects, and bright minds.

More information at: [Here](#)



31 July – 3 Aug 2022

World Cities Summit 202; Liveable and Sustainable Cities: Emerging Stronger, is an opportune platform to share best practices and innovative solutions for our cities to be more liveable, sustainable, and resilient. Apart from our usual highlights - the Lee Kuan Yew World City Prize, WCS Mayors Forum, WCS Young Leaders Symposium and WCS Smart Cities Workshop, global, business, and thought leaders will discuss our theme through plenary sessions and tracks.

More information: [Here](#)

OTHER EVENTS



31 Mar 2022: 9:00 PM – 10:30 PM

National Security's Evolving Relationship with Science and Technology, highlights National security's relationship with science and technology (S&T), where S&T's ability to contribute to defence capabilities and economic growth, or how S&T advancements pose risks to a country's national security. The governments are also no longer the most influential players in S&T by default. – how have "Big Tech" companies, start-ups, and research institutions changed the role played by governments? How are governments reacting to their evolving role, and what are the implications of this? This webinar will explore these issues from the perspectives of China, Europe, and the United States.

More information at: [Here](#)

GRANT / CHALLENGE CALLS & OPPORTUNITIES

For assistance in identifying research partners, email us at NISTH-research@ntu.edu.sg

<p>NATIONAL RESEARCH FOUNDATION</p>	<p>Early Notification – 1 – 31 March 2022 The Intra-CREATE Seed Collaboration grants are aimed to generate an impetus for collaborations to form between researchers from CREATE Partner Institutions co-located in Singapore, in order to achieve greater impact from collaborative research efforts. The Intra-CREATE Seed Collaboration grants are supported up till SGD 250,000 (inclusive of indirect costs) from NRF over a period of 18 months. More information: Here (Login required)</p>
	<p>Deadline: 31 March 2022 Temasek Foundation Call 2022, champions sustainability and innovative solutions to improve liveability in an World of active and productive economies, beautiful and inclusive societies, and a clean and cool earth. They are currently conducting their Call for Proposals, and is seeking innovative solutions in two key areas: Liveability and Sustainability and Public Health. Interested parties who have completed their proofs of concept and need support to create and demonstrate prototypes in an operational environment are encouraged to submit their proposals online. More information: Here (Login required)</p>
	<p>Deadline: 1 April 2022 The Liveability Challenge, is presented by Temasek Foundation and organised by Eco-Business. The Challenge is looking for disruptive, game-changing solutions that will help cities accelerate decarbonisation, meet increasing demand for food, and conserve our planet’s natural ecosystems. Finalists stand a chance to win the grand prize of up to S\$1 million in grant funding for project development, among other opportunities. The three themes for this year's challenge are: Decarbonisation, Food & Agritechology and Nature-based Solutions.</p>
<p>GAEIA Responsible Digital Leadership in the Financial Sector</p>  <p>Center for Human Rights & International Justice, Stanford University</p>	<p>International Project on Ethical Dilemma In Tech, is inviting 2-3 advanced level students interested in the impacts of technology and the financial sector to join an international project on ethical dilemma of using tech. Background could be engineering, the humanities, law, business, anthropology, philosophy or other – they are looking for diversity. Join an international highly diverse team for an important project from June to December 2022 and learn about tech, impact, ethics and build an international network. As part of the Initiative on Responsible Digital Leadership in the Financial Sector, GAEIA, we are identifying <i>ethical dilemmas</i> in related to tech and processing of data (data management and analytics, use of algorithmic tools, AI/ML). A diverse group will collect and analyze possible dilemmas in collaboration with an international group of financial sector institutions. This is a combined international class on ethics of technology and a research & development project. If interested, please email nisth-events@ntu.edu.sg</p>
<p align="center">Email us at nisth-events@ntu.edu.sg; Website: www.nisth.ntu.edu.sg</p>	