

November 2018

IMPact@SUTD is a regular update featuring works by SUTD Faculty, Researchers, Students and Research Centres/Labs. We hope to create awareness of the Research by SUTD within the SUTD community and beyond. Share with us your SUTD works today so that we can include it in our next update.



Congratulations!

Associate Professor Tony Quek

For being named as a ***2018 Clarivate Analytics Highly Cited Researcher** in the field of **Computer Science**.

**The 2018 Highly Cited Researchers list by Clarivate Analytics identifies the most frequently cited researchers as determined by the extent to which their papers have supported, influenced, inspired and challenged other researchers around the globe. Professor Tony Quek is awarded this distinct honour for the third time.*



CONGRATULATIONS!

Prof Yeo Kiat Seng, Dr Teo Tee Hui and Ms Soh Mei Yu et al.

ENGINEERING PRODUCT DEVELOPMENT & SCIENCE AND MATH

For being awarded the **Best Paper Award in IEEE Tencon2018** for the Paper ***Real Time Audio Transmission using Visible Light Communication**.

**The Visible Light Communication project is supervised by Prof. Yeo Kiat Seng and Dr. Teo Tee Hui in SUTD's Electronics Design Laboratory. Prof. Yeo has initiated this frontier research more than a decade ago and filed a patent using visible light for high-speed data communication, energy harvesting and lighting in 2007. Currently, his research team has a few projects in VLC funded by research grants and companies. With LEDs becoming popular, VLC has the big potential to revolutionize the next generation of wireless and terahertz for secured and ultra-high-speed and data rate communication. In this work, the team has demonstrated that VLC can be a very effective and attractive solution for audio applications.*



Bridging Positivist and Relativist Approaches in Recent Community-Managed Architectural Conservation Projects in Singapore
Journal of Social Issues in Southeast Asia

SUTD Author: Yeo Kang Shua

"In the last decade, architectural conservation in Singapore has moved beyond a positivist approach to a postmodern relativism that takes local cultural contexts into account. Such a shift has become evident in recent institutional projects, particularly in the conservation and restoration of religious buildings."

--- Yeo Kang Shua



Green Composites for Automotive Applications
Woodhead Publishing

SUTD Author: Arlindo Silva

"This book presents comprehensive reviews on industrial applications of green composites together with an assessment of both academic and industrial research on eco-design, durability issues, environmental performance, and future trends. It is an essential resource for R&D specialists working in materials science, automotive, chemical, and environmental engineering, as well as R&D managers in industry."

--- Arlindo Silva

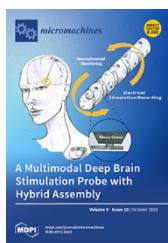


Overcoming Prejudice, Seeking Support: Transnational Social Media Communication of Female Vietnamese Students in South Korea and Singapore
Transitions: Journal of Transient Migration

SUTD Author: Sun Sun Lim and Becky Pham

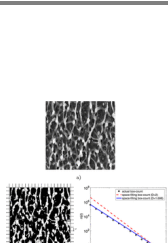
"Comparing social media use of Vietnamese students in Seoul and Singapore, the former drew closer to co-national friends due to stronger perceptions of discrimination than the latter, who better integrated into Singapore's multi-cultural environment. We recommend that international students optimize their social media use to build diverse and encompassing social networks to facilitate adaptation."

--- Sun Sun Lim



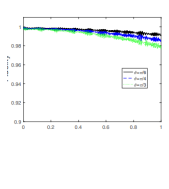
Dual Sacrificial Molding: Fabricating 3D Microchannels with Overhang and Helical Features
Micromachines

SUTD Author: Wei Huang Goh and Michinao Hashimoto



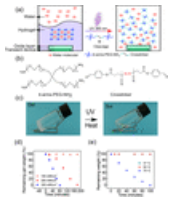
Fractional Fresnel coefficients for optical absorption in femtosecond laser-induced rough metal surfaces
Journal of Applied Physics

SUTD Author: Muhammad Zubair, Yee Sin Ang, Kelvin J. A. Ooi, and Ang Lay Kee Ricky



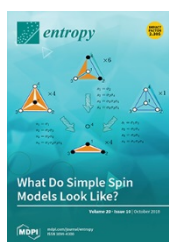
Effective two-photon interaction in two-resonator circuit QED system
Laser Physics Letters

SUTD Author: Chunfeng Wu



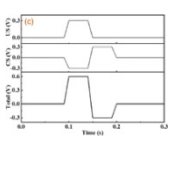
Enabling Transient Electronics with Degradation on Demand via Light-Responsive Encapsulation of a Hydrogel-Oxide Bilayer
ACS Applied Materials & Interfaces

SUTD Author: Shuai Zhong, Xinglong Ji, Li Song, Yishu Zhang, and Rong Zhao



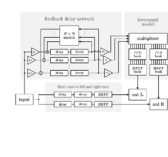
From Nash Equilibria to Chain Recurrent Sets: An Algorithmic Solution Concept for Game Theory
Entropy

SUTD Author: Georgios Piliouras



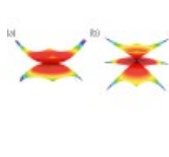
Hardware implementation of classical conditioning with iron-oxide-based memristors
Applied Physics Express

SUTD Author: Yi Tong



Minimally Simple Binaural Room Modeling Using a Single Feedback Delay Network
Journal of the Audio Engineering Society

SUTD Author: Natalie Agus, Jer-Ming Chen, Hans Anderson and Dorien Herremans



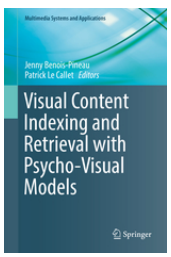
Monolayer Mg₂C: Negative Poisson's ratio and unconventional two-dimensional emergent fermions
Physical Review Materials

SUTD Author: Shan-Shan Wang, Ying Liu, Zhi-Ming Yu, Shan Guan and Shengyuan A. Yang



N-BalIoT-Network-Based Detection of IoT Botnet Attacks Using Deep Autoencoders
IEEE Pervasive Computing

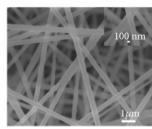
SUTD Author: Dominik Breitenbacher and Yuval Elovici



Predicting Interestingness of Visual Content. In J. Benoit Pineau & P. Le Callet

Visual Content Indexing and Retrieval with Psycho-Visual Models

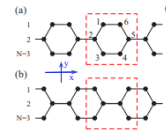
SUTD Author: Thanh-Toan Do



Rapid Fabrication of Photoluminescent Electrospun Nanofibers without the Need of Chemical Polymeric Backbone Modifications

Journal of Nanomaterials

SUTD Author: Mushtaq A. Sobhan, Andrei Lebedev, and Franklin Anariba



Topological bosonic states on ribbons of a honeycomb lattice

Physical Review A

SUTD Author: Shengyuan A. Yang

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