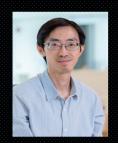
October 2020

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.

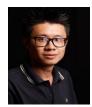
## **CONGRATULATIONS!**

Dr Lee Chee Huei , and Dr Yajuan Julia Zhu for being awarded the Advance Higher Education — Fellowship\*

\*The Advance Higher Education Fellowship recognizes personal and institutional commitment to excellence in learning and teaching in global higher education and offers professional recognition in the categories of Associate Fellow, Fellow, Senior Fellow and Principal Fellow. Fellowship recognizes effective, substantive and high-quality teaching that support student learning and demonstrates a broad understanding of effective teaching and learning approaches which contribute to significant student learning and excellence in teaching.







Challenges and prospects for negawatt trading in light of recent technological developments Nature Energy

SUTD Author: Chau Yuen

"Negawatt trading, despite being first introduced in the mid-80s, has remained elusive. However, in light of recent technological developments, negawatt trading is starting to be a reality. This Nature Energy paper looked at the challenges to wide-scale negawatt trading and explain how recent technological developments can address those challenges."

--- Chau Yuen



Meaning of agefriendly neighbourhood: An exploratory study with older adults and key informants in **Singapore** Cities

SUTD Author: Md Rashed Bhuyan, Anna P. Lane, Špela Močnik, and Belinda Yuen

"This study illuminates the meaning of age-friendly neighbourhoods as perceived by domain experts and older adults themselves in rapidly ageing Singapore. Both experts and older participants made reference to not just the physical but also the social environments and the intangible qualities of inclusiveness, safety and sense of place."

--- Md Rashed Bhuyan



The impact of social stratification on morbidity during the COVID-19 pandemic International Journal of Sociology and Social

SUTD Author: Nilanjan Raghunath

"Socioeconomic status (SES) has been known to be associated with many aspects of social life such as health. We argue that social stratification remains relevant in understanding differentials in health during a pandemic, as countries globally have encouraged or enforced social distancing and remote work measures."

Policy

--- Nilanjan Raghunath



A Generic Future **Mobility Sensing System for Travel** Data Collection, Management, Fusion, and Visualization

IEEE Transactions on Intelligent Transportation Systems

SUTD Author: Lynette Cheah



## A Spatial Livability Index for dense urban centers

Environment and Planning **B-Urban Analytics and City** Science

SUTD Author: Francisco Benita and Bige Tunçer

**Asthmatic** versus healthy child classification based on cough and vocalised /a:/ sounds

Journal of the Acoustical Society of America

SUTD Author: Balamurali B. T., Saumitra Kapoor, Dorien Herremans, and Jer-Ming Chen



**Cell Migration and Breast Cancer** Metastasis in **Biomimetic** Extracellular Matrices with Independently **Tunable Stiffness** 

Advanced Functional Materials

SUTD Author: Jyothsna and Javier G Fernandez



**Ideal Unconventional** Weyl Point in a Chiral Photonic Metamaterial Physical Review Letters

SUTD Author: Xiaolong Feng, Yue-Xin Huang and Shengyuan A. Yang



Improved control strategy for Cuk converter assisted wind-driven SEIG for DC nanogrid

IET Electric Power **Applications** 

SUTD Author: Raivir Kaur



Martian biolith: A bioinspired regolith composite for closed-loop **extraterrestrial** manufacturina

Javier G. Fernandez

Plos One SUTD Author: Ng Shiwei, Stylianos Dritsas, and



Melting of the critical behavior of a Tomonaga-Luttinger liquid under dephasing

Physical Review B

SUTD Author: Ryan Tan and Dario Poletti



**Preheating of Gelatin** Improves its Printability with Transglutaminase in **Direct Ink Writing 3D Printing** 

International Journal of **Bioprinting** 

SUTD Author: Justin Jia Yao Tan, Cheng Pau Lee, and Michinao Hashimoto

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