April 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!



PhD student Nguyen Tan Thai Hung

(Engineering Systems and Design Pillar)

For winning the prestigious *Lamont-Doherty Earth Observatory (LDEO) Postdoctoral Fellowship, which will support a 2-year Post-Doctorate programme at LDEO, Columbia University.

*To be awarded this fellowship, Hung's application went through a rigorous review process and emerged as one of the top three candidates from a pool of 82 applicants worldwide. Hung will commence his fellowship in spring 2021 at one of the world's leading institutions on earth sciences.





CONGRATULATIONS!

Assistant Professor Georgios Piliouras & Dr Stefanos Leonardos (Engineering Systems and Design Pillar)

For receiving the best paper award on a project on blockchains at Decentralized 2019. This for a joint paper with **Constandina Koki** (Athens University of Economics and Business).



CONGRATULATIONS

Professor Lim Sun Sun for publishing the book 'The Oxford Handbook of Mobile Communication and Society' with Oxford University Press.



This handbook updates the current scholarship surrounding mobile media and communication. The 43 chapters examine mobile communication and its evolving impact on individuals, institutions, groups, societies, and businesses. Contributors examine the communal benefits, social consequences, theoretical perspectives, organizational potential, and future consequences of mobile communication.

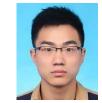


Do design storms yield robust drainage systems? How rainfall duration, intensity, and profile can affect drainage performance Journal of Water

Resources Planning and Management

SUTD Author: Jia Yi Ng and Stefano Galelli

"In this work, we developed a



Strategic Learning
Approach for
Deploying UAVprovided Wireless
Services

IEEE Transactions on Mobile Computing

SUTD Author: Xu Xinping and Duan Lingjie

"UAV has emerged as a technique to

provide wireless services to mobile users

simultaneously. Using algorithmic game

theory, the UAV's location is determined

locations. In UAV placement games, we

design various strategyproof mechanisms

in the 3D space, by ensuring all selfish

users' truthfulness in reporting their

with the approximation ratios."



Massively
multiplexed submicron particle
patterning in
acoustically
driven oscillating
nanocavities
Small

SUTD Author: Mahnoush Tayebi, Richard O'Rorke, Him Cheng Wong, Hong Yee Low and Ye Ai

"In this work, we demonstrate the generation of robust nanoscale force gradients from interactions between MHz acoustic waves and nanocavities, which enables massively multiplexed sub-micron particle trapping within these nanocavities at the single-particle level.."

mathematical modelling approach to evaluate the robustness of urban drainage systems, that is, how well they perform under a broad range of rainfall conditions. Knowing how rainfall duration and intensity control drainage performance can help us protect cities

--- Stefano Galelli

--- Xu Xinping

--- Ye Ai



from floods."

A characterization method for mechanical properties of metal powder bed fusion parts

International Journal of Advanced Manufacturing Technology

SUTD Author: Nandhini Raju, Samyeon Kim, David W. Rosen



A coalition formation game framework for peer-to-peer energy trading

Applied Energy

SUTD Author: Chau Yuen



A hybrid model for building energy consumption forecasting using long short term memory network Applied Energy

SUTD Author: Gauthama Raman M R



A software package for the representation and optimization of water reservoir operations in the VIC hydrologic model

Environmental Modelling & Software

SUTD Author: Thanh Duc Dang, Dung TrungVu, A.F.M. Kamal Chowdhury, Stefano Galelli

Do Cryptocurrency Prices Camouflage Latent Economic Effects? A Bayesian Hidden Markov Approach

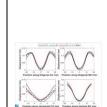
SUTD Author: Stefanos Leonardos, Georgios Piliouras

Future Internet



Fermi liquid behavior and colossal magnetoresistance in layered MoOCl2 Physical Review Materials

SUTD Author: Zhao Jianzhou



Learning Localized Spatial Material Properties of Substrates in Ultra-**Thin Packages Using Markov Chain** Monte Carlo and **Finite Element** Analysis

IEEE Access

SUTD Author: Cheryl Selvanayagam, Pham Luu Trung Duong, Nagarajan Raghavan



Properties and Constructions of **Constrained Codes for DNA-Based Data** Storage

IEEE Access

SUTD Author: Cai Kui

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molecule Annexin-A1 Mimetic, Compound 17b, **Elicits** Vasoprotective Actions in Streptozotocininduced Diabetic Mice

The Novel Small-

International Journal of Molecular Sciences

SUTD Author: Chen Huei Leo