

## School Session Programme (21 May 2019, Tuesday)

08:30 – 09:00	School Reception	
09:00 – 10:30	Optimization Models Applications 1	Dr Hans Wang
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Optimization Models Applications 2	Dr Hans Wang
12:30 – 14:00	Lunch	
14:00 – 15:30	Structural Equational Modelling Application 3	Prof Ching-Chiao Yang
15:30 – 16:00	Coffee Break	
16:00 – 17:30	Structural Equational Modelling Application 4	Dr Christina Wong

Keynote speaker for School Session on “*Optimization Models Applications: Empirical Studies of Shipping and Port Management*”

[Dr. Shuaian \(Hans\) Wang](#)

*Associate Editor of Transportation Research Part E: Logistics and Transportation Review*



Dr. Wang is an Associate Professor at the Department of Logistics and Maritime Studies, Hong Kong Polytechnic University (PolyU). Prior to joining PolyU, he worked as an Assistant Professor of Maritime and Supply Chain Management at Old Dominion University, USA, and a Lecturer of Operations Research at the University of Wollongong, Australia. Dr. Wang is currently an Associate Editor for Transportation Research Part E: Logistics and Transportation Review. He dedicates to rethinking and proposing innovative solutions to improve the efficiency of maritime and urban transportation systems, to promote environmental friendly and sustainable practices, and to transform business and engineering education. He has

published more than 50 papers, including Transportation Research Part B, Transportation Research C, Transportation Research Part E, Transportation Science, European Journal of Operational Research, and others.

### *Brief Introduction of this session*

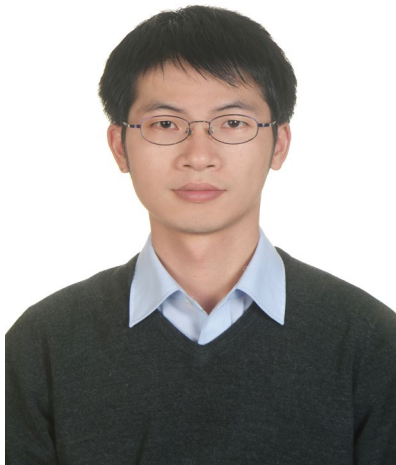
This session will introduce mathematical modeling in maritime studies, including topic selection, research methods, and paper writing. Dr. Wang will demonstrate how to conduct a research that is related to mathematical modeling in maritime studies (shipping and port operations). The target audiences of this session are PhD students and other junior researchers in the field of maritime studies who are interested in applying operations research techniques to shipping and port management problems. First, Dr. Wang will use examples to show how to identify meaningful research problems. Second, He will elaborate on a few research methods that are frequently used in maritime studies. Finally, he will show some tips in academic paper writing.

Keynote speakers for School Session on “*Structural Equational Modeling (SEM) Application: Empirical Studies of Shipping and Logistics*”

1. Professor Ching-Chiao Yang

*Associate Editor of Journal of Shipping and Trade*

[Topic: Analytical Steps and Test the Structural Model in SEM](#)



Ching-Chiao Yang is a Professor at the Department of Shipping and Transportation Management, National Kaohsiung University of Science and Technology in Taiwan. He is serving as an Associate Editor of the Journal of Shipping and Trade, Managing Editor for

Maritime Quarterly (Taiwan), and was a Guest Editor for the special issue on Transportation Research Part A: Policy and Practice (SSCI). His research interests are in shipping and port management, transport logistics, supply chain security management, and strategic management. He has published several papers in the *Transportation Research Part A: Policy and Practice*, *Transportation Research Part E: Logistics and Transportation Review*, *International Journal of Operations and Production Management*, *Supply Chain Management: An International Journal*, *International Journal of Shipping and Transport Logistics*, *International Journal of Production Economics*, *International Journal of Logistics Research and Applications*, and others.

*Brief introduction of this session*

The SEM model is a multivariate technique and has been commonly applied in business research. It is most appropriate to evaluate causal and effect relationship when the research has multiple constructs. This session thus aims to introduce the use of SEM model in shipping and logistics researches. Firstly, some key concepts and definition will be addressed. Then, the main processes will be introduced including model formation, model estimation, model assessment, etc.. In particular, the confirmatory factor analysis will be introduced for assessing the validity of model. Finally, a case study will be conducted to explain how to apply the SEM model in shipping and logistics research.

2. Dr. Christina W.Y. Wong

*Editor of Maritime Business Review*

*Editor of International Journal of Shipping and Transport Logistics*

*Associate Editor of the Journal of Operations Management*

*Regional Editor of the International Journal of Operations and Production Management.*

**Topic: Moderating and Mediating Effects in SEM**



Christina W.Y. Wong is an Associate Professor in the Business Division of the Institute of Textiles and Clothing, Hong Kong Polytechnic University. Dr. Wong is serving as an Editor for the *Maritime Business Review* (ESCI, Scopus) and the *International Journal of Shipping and Transport Logistics* (SSCI). She is also serving as an Associate Editor of the *Journal of Operations Management* and Regional Editor of the *International Journal of Operations and Production Management*. Her research interests are in environmental management. She has published more than 76 papers, including *Nature*, *Journal of Operations Management*, *Production and Operations Management Journal*, *Journal of Management Information Systems*, *Industrial Marketing Management*, *Information & Management*, and others.