Modeling dependent effect sizes with three-level meta-analysis

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Time: 2:00pm – 3:30pm
Venue: Room 401-402, Meng Wah Complex, HKU
Chair: Dr Patcy Yeung

Abstract:
Meta-analysis is an indispensable tool to synthesizing research findings in social, educational, medical, management and behavioral sciences. Most meta-analytic models assume independence among the effect sizes. However, effect sizes can be dependent for various reasons. For example, studies may report multiple effect sizes on the same construct; effect sizes reported by the same research teams are more similar compared to effect sizes reported by other research teams. Three-level meta-analysis has been proposed to model effect sizes with nested structures. This talk will review the problems and methods for handling dependent effect sizes. This talk will also introduce the methods and research opportunities of handling dependent effect sizes with the three-level meta-analysis. Examples will be used to illustrate the procedures.

About the speaker:
Dr Mike W.-L. Cheung is an associate professor in the Department of Psychology, National University of Singapore. He received his PhD in quantitative psychology from the Chinese University of Hong Kong. His research interests are in the areas of structural equation modeling, meta-analysis, and multilevel modeling. He is currently writing a book entitled “Meta-analysis: A Structural Equation Modeling Approach” that will be published by Wiley in 2015. He has been serving in the editorial boards of Psychological Methods, Educational Researcher, Research Synthesis Methods, and Frontiers in Quantitative Psychology and Measurement. He is also serving as one of the two guest Editors for the special issue on "meta-analytic structural equation modeling" that will be published in Research Synthesis Methods and as one of the three Series Editors for the "SpringerBriefs in Research Synthesis" that will be published by Springer.

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