

Two-day doctoral seminar, Wednesday 16th and Thursday 17th December 2015

Organized by:

Graduate School of Software Systems and Engineering (SoSE)
University of Oulu, Department of Information Processing Science
www.sose.oulu.fi

Structural Equation Modeling in Information Systems Research

Associate Professor Frank Chan, ESSEC Business School, France

The seminar is open for all. Please register in advance: liisa.kuonanoja@oulu.fi

Date:

Wednesday 16th December, 9.15-16.45, IT138

Thursday 17th December, 9.15-16.00, IT105

The classrooms are at University of Oulu, Ympäristötietotalo, Paavo Havaksentie 3, 90570 Oulu.

This seminar introduces to doctoral students the use of structural equation modeling (SEM) in the Information Systems (IS) discipline. It covers the concepts and applications of component-based and covariance-based SEM. It provides students with hands-on knowledge of statistical packages, including SmartPLS, AMOS, and SPSS.

Participants will be provided with background readings and sample data sets. Participants are responsible for installing the software (SmartPLS 3.2.3, AMOS, and SPSS) and ensuring the software is fully functional prior to the seminar.

Note:

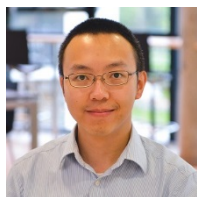
SmartPLS 3.2.3 is available as a 30-day trial version (not the free student version that has limited functionality). AMOS and SPSS are available as 14-day trial versions (AMOS runs only on Windows PC).

Preliminary Schedule

Day 1	Topics
9:15 AM – 10:30 AM	<ul style="list-style-type: none"> - Introduction to structural equation modeling - Basics of measurement (formative vs. reflective) - Overview of the use of PLS in IS research - PLS algorithm
10:30 AM – 10:45 AM	Break
10:45 AM – 12:00 PM	<ul style="list-style-type: none"> - Introduction to SmartPLS software - Creating PLS path models - Measurement model assessment - Path model assessment - Bootstrapping and significance testing
12:00 PM – 1:00 PM	Lunch
1:00 PM – 2:45 PM	<ul style="list-style-type: none"> - Multi-group analysis - Moderation analysis
2:45 PM – 3:00 PM	Break
3:00 PM – 4:45 PM	<ul style="list-style-type: none"> - Mediation analysis - Moderated mediation analysis

Day 2	Topics
9:15 AM – 10:30 AM	<ul style="list-style-type: none"> - Advanced Topics in PLS (higher-order constructs, unobserved heterogeneity)
10:30 AM – 10:45 AM	Break
10:45 AM – 12:00 PM	<ul style="list-style-type: none"> - Overview of covariance-based SEM - Introduction to AMOS software - Measurement model assessment
12:00 PM – 1:00 PM	Lunch
1:00 PM – 2:30 PM	<ul style="list-style-type: none"> - Creating structural models - Assessing model fit and related issues (e.g., modification indices, identification problem)
2:30 PM – 2:45 PM	Break
2:45 PM – 4:00 PM	<ul style="list-style-type: none"> - Wrap-up - Exercises - Student consultation

Instructor Bio



Frank Chan is an Associate Professor of Information Systems at the ESSEC Business School, France. His research interests include electronic government and technology implementation. His work has appeared in journals such as *Information Systems Research*, *Journal of the Association for Information Systems*, *Information Systems Journal*, and *Journal of Operations Management*.