

Econometrics for Evidence-Based Transportation Demand Analysis

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This workshop is on the application of econometrics in transportation demand analysis. Econometric approach forms the basis of evidence-based planning as evidences in transportation are often drawn from a sample of observation/data. So, without proper econometric consideration, sample information may not represent true evidences of the population under investigation. Moreover, econometrics allows behavioural investigation of travel demands. The workshop has four lectures on the following topics:

- Theory of sampling and parameter estimations.
- Aggregate demand modelling: Approaches and considerations.
- Disaggregate demand modelling: Model formulations and prediction approaches.
- Discrete choice modelling: Different formulations and considerations.
- Stated Preference Survey for Policy Analysis.

The lectures will present the fundamentals on the topics along with examples of practical applications. It will be assumed that the participants have basic knowledge of statistics and data analysis along with experiences in transportation investigations.

Bio

Khandker Nurul Habib is a professor of Civil Engineering at the University of Toronto. He has 17 years of industry and academic experience in transportation and infrastructure planning in Canada and abroad. He has been a leader in developing innovative methodology of demand modelling and published over 200 papers in peer-reviewed journals, conference proceedings and books. His awards for pioneering works in transportation planning and demand modelling include Eric I Pass Award from International Association of Travel Behaviour Research (IATBR), Pyke Johnson Award from the Transportation Research Board (TRB) and Minister's Award for Excellence in Process Innovation from Alberta Ministry of Transportation. Dr. Nurul Habib is a member of TRB's standing committees on 'Travel Behaviour and Values' and 'Transportation and ICT'. He teaches graduate courses on 'Advanced Transportation Planning', 'Travel Survey Methods' and 'Transportation Demand Modelling' at the University of Toronto. For his experience, he is frequently invited to work as guest editors of leading peer reviewed transportation journals. He also works as technical advisors, peer reviewers and team leader of practical projects in urban transportation in Canada and abroad.