Data Science and Economics: Some Examples

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Prof. LIN obtained his PhD from University of Chicago under the supervision of Prof. Steven LEVITT, the co-author of Freakonomics (蘋果橘子經濟學) and Super-freakonomics (超爆蘋果橘子經濟學). Prof. LIN wrote the Prefaces for the Chinese (Taiwan) versions of these two popular books.

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Abstract

In this talk, I will use three examples to illustrate how we can use Data science to learn more about the real world. The first example is a traditional big data/economic thinking, where we use Taiwan’s tax micro data to study its intergenerational mobility. The second example uses Facebook-liked data to predict election result, and to see whether we can estimate the effect of fake news on political ideology causally. The final example uses an online dating data sets to explore the preference of dating, and propose a economics base matching algorithm to solve the congestion problem occurred in the traditional recommendation system.