

Exploring the Capacity of Tourism Activities for Indigenous Heritage Sites

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Background

- Australia's tourism industry has played an increasingly important role in promoting Australian economic growth in the past decade.
 - Tourism contributed to **3.1%** of the total national GDP in 2017-2018.
 - Tourism contributed to **5.2%** of Australian total workforce in 2017-2018.
- Australia's Indigenous tourism, one of the seven essential components constituting of the Australia's tourism industry, has gradually lost its attraction to tourists.
 - Domestic demand has shown a reduction by **18.7%** per year from 2006 to 2011.
 - Global demand declined by 4.9% per year from 2006 to 2011.

Motivation

- Existing studies have already explored the motivation and barriers for visiting
 Australia's Indigenous tourism qualitatively which are limited to the subjects in those studies.
- In order to better understand the travel behaviours of tourists population, modelling practices are required to be carried out.
- Majority of quantitative studies on tourists behaviours only took account of single tourism decisions, which may lead to modelling bias due to the interrelated nature of tourism decisions.
- □ Tourists' trip length in Australia shown a downward tendency.

Current Work

Considering the interrelation between time of year and trip duration, explore tourists' behaviours in

Objectives



determining their trip duration in Australia.

Explore how the trip length is correlated with the time of year (Spring, Summer, Autumn and Winter).

Fill the gaps in the research area of multiple tourism decisions modelling and enhance the understanding of tourists' behaviours in Australia.



Methodology

Data Source

□ National Visitor Survey (NVS) data collected by Tourism Research Australia (TRA) in 2007

Model Structure





- As the Generalized ordered based discrete-continuous model predicts, Australian domestic tourists prefer shortterm trips (usually less than 3 days)
- Domestic tourists tend to travel in Winter, followed by Summer, Spring and Autumn.
- Short-term trips in Winter are the most popular with domestic tourists
- This model fails to predict well in trips with duration longer
 than a week because samples located in that area are not
 so sufficient.

$U_j^i = \mathbf{V}_j^i + \varepsilon_j^i = \alpha_j^i + \beta_j^i X^i + \varepsilon_j^i$

$\ln t_i^i = \alpha + \beta X^i + \tau^i$

Model Comparison



