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Jantachalobon, N., Vanichkobchinda, P., Suthikamnarunai, N.
Airline network analysis of ASEAN international airport region

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Abstract
This research is a methodology to measure the position of hub airports in Southeast Asia. The purpose of this research was to measure the number of indirect connecting flights in ASEAN. The documents used for this research were the statistics of annual reports between 2003 and 2012 of ten airports. Four methods of analysis were used: Netscan model, Concentration ratio, Herfindahl-Hirschman index, and Comprehensive concentration index. Market share in ASEAN airports is dominated by five big companies: Suvarnabhumi International Airport (BKK) in Thailand, Changi International Airport (SIN) in Singapore, Kuala Lumpur International Airport (KUL) in Malaysia, Ninoy Aquino International Airport (MNL) in the Philippines and Sugamo Hatta International Airport (CGK) in Indonesia. The first three are of these airports are major hubs for the ASEAN region. The analysis presented in this research may be helpful for airports or airlines in identifying their network performance and position in relation to their competition. © Jantachalobon et al.; Licensee Bentham Open.

Author Keywords
Airlines; Airports; ASEAN; Comprehensive concentration index; Concentration ratio; Herfindahl-hirschman index; Netscan model

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