

## システム情報工学研究科修士論文概要

年 度	平成 25 年度	学位名	修士( 公共政策 )
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論文題目 The Effect of Information and Communication Technology (ICT) on Economic Output of ASEAN Countries (アセアン諸国において情報とコミュニケーション技術(ICT)が国内総生産に与える効果)			
論文概要 <p>Information and Communication Technology (ICT) is a sector that rapidly grows, and this sector is considered to have a positive effect on economy. This research tries to measure the effect of the mobile phone service on 5 ASEAN countries' economy. Mobile phone service is chosen as a proxy for ICT as a total number of the service is still increasing rapidly in developing countries. Furthermore, mobile phone service network expansion also deemed less costly and can be deployed rapidly covering large area. They are suitable features for developing countries with large geographic area like most of ASEAN countries.</p> <p>This research adopts a standard production function approach, based on the mobile phone service subscription data in 5 ASEAN countries, namely Indonesia, Malaysia, Philippines, Thailand and Singapore between 1998 and 2011. The time frame is set because mobile phone service prior to 1998 were too small to capture its network externality. Using OLS and TSLS estimates, this research finds that mobile phone service as a proxy for ICT contributes positively towards economic output of 5 ASEAN countries.</p> <p>The contribution of mobile phone service is gained through a mechanism where it creates better information exchange between all market agents, which leads to more efficient economy in every sector. This research also suggests that the mobile phone service potential is still increasing, means that it has the potential to deliver bigger contribution towards economic output. Based on the reason, policy makers should carefully formulate proper ICT policies so that the countries can fully utilize the sector to leverage their economy.</p>			
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