

## システム情報工学研究科修士論文概要

年 度	平成 21 年度	学位名	修士( ビジネス )
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論文題目	<p style="text-align: center;">Estimation of Rice Production Function in China: Evidence from 1994-2006 (中国における米生産関数の推計：1994-2006 に基づいて)</p>		
論文概要	<p>Either for domestic or international supply, it is very necessary to ensure rice output stable in China. However, worries about a decrease in rice output have emerged since the 2000s, when the rice output has declined in the 2000s compared with the 1990s. It is widely believed that stopping rice output decrease and improving rice production has been one important subject for China. This paper aims to estimate the rice production function to find which input determinant is the major one and measure Total Factor Productivity following by Malmquist Index Method in China. The dataset used in this study is panel data at the province-level over the period of 1994-2006. And there are two findings in this paper. The first finding is that rice area is the most important input determinant having an impact on rice production and has the trend of declining from the 1990s to the 2000s. Thereby, in order to enhance rice output, protecting cultivated land is very necessary. It is urgent to make the regulations of cultivated land management, control the land requisition, and develop reserve arable land. The second finding is that TFP change of rice production has declined by 0.9% from the 1990s to the 2000s and technical efficiency change has more contribution to TFP change than technology change in the 2000s. For the purpose of improving TFP growth, it is very important to determine how to use existing technology and economic inputs more efficiently.</p>		
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