## Agriculture and Global Economy vis-à-vis the Climate Change

Authors : Assaad Ghazouani, Ati Abdessatar

**Abstract :** In the world, agriculture maintains a social and economic importance in the national economy. Its importance is distinguished by its ripple effects not only downstream but also upstream vis-à-vis the non-agricultural sector. However, the situation is relatively fragile because of weather conditions. In this work, we propose a model to highlight the impacts of climate change (CC) on economic growth in the world where agriculture is considered as a strategic sector. The CC is supposed to directly and indirectly affect economic growth by reducing the performance of the agricultural sector. The model is tested for Tunisia. The results validate the hypothesis that the potential economic damage of the CC is important. Indeed, an increase in CO2 concentration (temperatures and disruption of rainfall patterns) will have an impact on global economic growth particularly by reducing the performance of the agricultural sector and its repercussions on economic growth

Keywords : Climate Change, Agriculture, Economic Growth, World, VECM, Cointegration.

**Conference Title :** ICAEER 2015 : International Conference on Agricultural Economics and Environmental Research **Conference Location :** Istanbul, Türkiye

Conference Dates : January 26-27, 2015