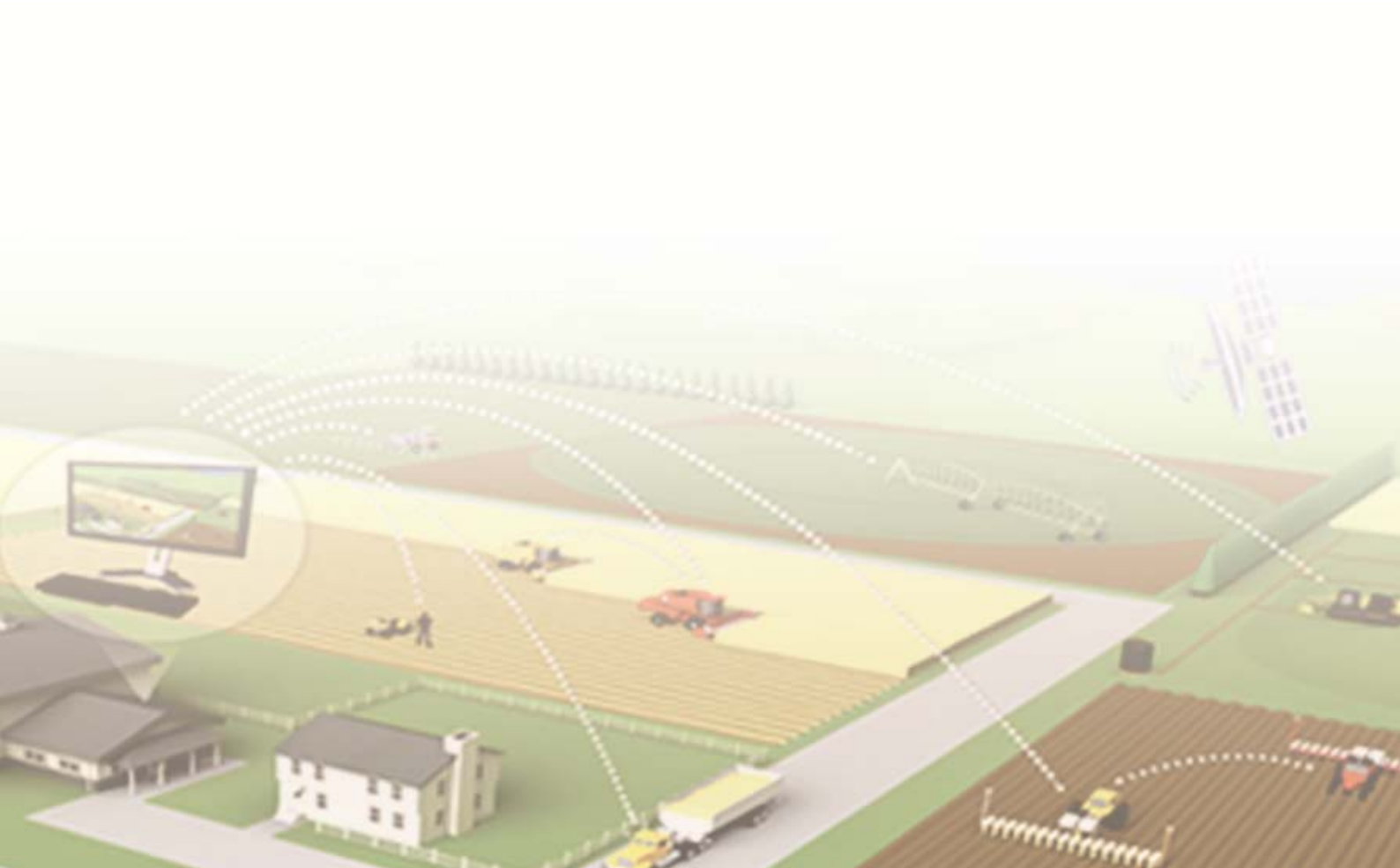




Biography

Prof. Dr. Supachai Pathumnakul

Supachai Pathumnakul is a Professor in Industrial Engineering Department and the Vice President for Research and Technology Transfer, Khon Kaen University, Thailand. He is also the President of Research University Network Thailand (RUN), an associate fellows of the Academy of Science, the Royal Society of Thailand and a board of director of Thai Business Incubators and Science Park Association (ThaiBispa). He holds a doctor of philosophy degree in Industrial Engineering from Iowa State University, USA. In the past 15 years, he has been working his researches on agricultural and food supply chain and logistics and published more than 30 papers in international journals.





Keynote Lecture 2

Production and Harvest Planning in Agricultural Supply Chain under Digital Age

Prof. Dr. Supachai Pathumnakul

Abstract

Production and harvest planning is one of the key operations in managing agricultural supply chain. It could assist to reduce overall cost, increase product quality and shorten response time, if a competent plan is employed. Production and harvest planning includes demand and supply forecasting, cultivation scheduling, yield estimation, and harvesting scheduling. Data and information management, and planning algorithm are the main drivers to achieve an efficient plan. In digital age, farm data and information can be easily and accurately collected. Real time data could be simply monitored. High performance planning algorithm can also be developed. These lead to the improvement of agricultural supply chain efficiency. In this presentation, the characteristic of agricultural supply chain which affects to production and harvest planning is introduced. Some proficient and practical production and harvest planning approaches, under digital environment, are suggested and discussed.

