

YONGWIMON LENBURY

Research Activities

Areas of Expertise

Nonlinear systems; modelling and analysis

Current Interests and Activities

My recent and current research activities involve modelling and analysis of nonlinear systems in the following areas.

1. Development, progression, proliferation and control of diseases, such as Diabetes Mellitus, cancer, osteoporosis, and so on, as well as the mechanism related to drug resistance.
2. Farming and fisheries, concerning their mobility, recruitment, and the spread of diseases, such as Porcine Reproductive and Respiratory Syndrome (PRRS).

The investigations usually involve systems of nonlinear ordinary or partial differential equations (ODEs or PDEs). Delayed and impulsive systems of equations are frequently encountered. Model analyses utilize various theories of ODEs and PDEs.