

WARUNEE SARIKA

Research Activities

Areas of Expertise

Nonlinear systems with time delays; modelling and analysis

Current Interests and Activities

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

1. Development, progression and control of Diabetes Mellitus as well as the signal transduction process and the mechanism related to drug resistance.
2. Biological control of plant diseases.

Model systems of nonlinear ordinary differential equations (ODEs) are usually analyzed by the various theories of ODEs. Moreover, the effect of delayed responses and impulsive systems of equations are frequently incorporated into the model systems in order to better understanding the dynamic behavior.