FMSP Lectures

Hans-Otto Walther
(University of Giessen)

The semiflow of a delay differential equation
on its solution manifold

October 22 (Thu) 16:00 ～ 16:50 Room 002

Abstract:

This lecture surveys recent work on initial value problems for
differential equations with variable delay. The focus is on
differentiable solution operators.

The lecture explains why the theory for retarded functional
differential equations which is familiar from monographs be-
fore the turn of the millennium fails in case of variable delay,
discusses what has been achieved in this case, for autonomous
and non-autonomous equations, with delays bounded and un-
bounded, and addresses open problems.