Topic: Analysis of Predictability

Instructor: S. Lakshmivarahan

Class Time: T-Th 1.30 – 2.45 PM

Class Room: PHSC-0360 (From Jan 17th onwards will meet in FH 320)

Proposed Outline:
1. An overview of dynamical systems
2. Analysis of stability
3. Sensitive dependence on initial conditions and chaos
4. Computation of Lyapunov exponent
5. Stochastic dynamics
6. Evolution of the state probability distribution

Text Book:


Office Hours: T-Th 3.00 – 4.30pm in EL 146

Grading: Assignments 8-10, one midterm, and a final. Assignments – 40%, Mid-term-30%, Final Exam 30%. Grading scale: A is 90 or above; B is 80 to 89; C is 70 to 79 and D is 60 to 69. Below 60 is F.

For more information contact the instructor: varahan@ou.edu