



ÇANKAYA UNIVERSITY
FACULTY OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCES

SEMINAR

Recent Developments and Applications of Numerical Analysis

SPEAKER : Prof. Dr. Münevver Tezer-Sezgin

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TIME : 13:20

PLACE : Çankaya University (Central Campus),
Blue Hall (Mavi Salon)

Abstract

Numerical analysis concerns with the development and study of methods/algorithms for solving mathematical problems. First, a mathematical model is formulated for an observed phenomenon in biology, chemistry, physics, economics or any other scientific or engineering discipline. In practice most of these mathematical models are difficult or impossible to solve analytically. In order to solve such a model approximately on a computer, the problem is approximated by a discrete one. Numerical analysis designs the methods and algorithms which approximately solve the mathematical problem efficiently, accurately and reliably. In this talk, we shall illustrate the need and the use of the general ideas behind numerical methods giving some examples from physical situations. Recent applications are shown from magnetohydrodynamics and biomagnetic fluid flows.

All interested are cordially invited.

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