GENERAL SEMINAR

Wednesday December 25th 2019
FEF-404 @ 15:40 pm

Numerical Solutions of Burgers Equation

Nazmi Oyar
Atılım University

Abstract: In this talk, I will briefly give a description of Burgers equation with zero viscosity term which is one of the benchmark problems for conservation laws. I will dwell on some properties of analytic solutions and then introduce some numerical methods for discontinuous initial values. Then, the efficiency of numerical schemes will be investigated in terms of rarefaction and shock solutions. The remaining part of the talk will be about the application of finite volume methods on Burgers equation on different geometric backgrounds.