

## RTG Lecture Series

### Analysis of dynamic flows in networks

Prof. J.G. Caputo

INSA Rouen Normandie, France

Schedule: MTWTF-5:30PM, January 27-29, 2020      Location: Clements Hall 126

#### Lecture 1 Miscible flows the graph wave equation

description of an

array of inductances and capacities, of fluid flow in a network of ducts and of a system of masses and springs. The structure of the graph influences strongly the dynamics which is naturally described using the basis of the eigenvectors. Special nodes of the graph where an eigenvector has zero component play