



Analysis and Applications of Mathematical Fluid Dynamics

Guest Editor:

**Dr. Ramoshweu Solomon
Lebelo**

Faculty of Human Sciences, Vaal
University of Technology, Private
Bag X021, Vanderbijlpark 1911,
South Africa

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Message from the Guest Editor

Dear Colleagues,

Fluid dynamics studies deal with fluid flow in fluid mechanics. Fluids may be categorized into three forms, namely, liquids, gases, and plasma. Plasma is ionized gas, and much of the universe is thought to consist of plasma. It is often applied in galaxy information and modern plasma television. The study of fluid dynamics has attracted many researchers because of its widespread applications, including, among others, for biological and medical purposes, flow rate and velocity, Bernoulli's equation: pressure and speed, Poiseuille's equation and viscosity, blood flow, surface tension, molecular transport phenomena, pumps, and the heart. In addition to the abovementioned research areas, fluid mechanics covers aerodynamics, which is concerned with the study of air in motion, whose applications, among others, include finding and calculating forces acting on airplanes and the design of airplane wings.





Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

Message from the Editor-in-Chief

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