



**Calhoun: The NPS Institutional Archive
DSpace Repository**

Center for Decision, Risk, Controls and SIGINT (DRCSI)

Center for Decision, Risk, Controls and SIGINT (DRCSI) Publications

2014

Special Lecture Series, DRCSI poster

Naval Postgraduate School (U.S.)

Monterey, California: Naval Postgraduate School.

<https://hdl.handle.net/10945/44469>

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

**Dudley Knox Library / Naval Postgraduate School
411 Dyer Road / 1 University Circle
Monterey, California USA 93943**

<http://www.nps.edu/library>

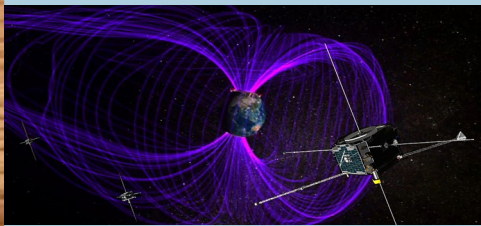


SPECIAL LECTURE SERIES



VENUE

Department of Mathematics
Bharathiar University
Coimbatore, India.



CONTACT

Dr K. Balachandran
Professor and Head
Department of Mathematics
Bharathiar University
Coimbatore - 641 046

Phone: 0422 - 2428411
E-Mail: mathsbu@gmail.com



Quasi-linear Partial Differential Equations of Fluid Dynamics and Physics

Rigorous Solvability, Stochastic Analysis & Control

JUNE 30 - JULY 11, 2014

Speaker

Professor S. S. Sritharan

Director
Center for Decision, Risk,
Controls & Signals Intelligence
(DRCSI)
Naval Postgraduate School
Monterey, CA 93943, USA.
E-Mail: sssritha@nps.edu



A unified treatment based on Tosio Kato's nonlinear semi-group theory and its *stochastic counterpart* will be presented and detailed mathematical structure of *each of the following important applications* will also be given:

- Incompressible and Compressible Inviscid Fluid Dynamics
- Viscous Fluid Dynamics
- Quantum Electrodynamics
- Magnetohydrodynamics
- Korteweg-de Vries (KdV) Equation
- Quantum Fluid Dynamics
- Radiation Hydrodynamics
- Nonlinear Schrodinger Equation
- Einstein Field Equations of General Relativity
- Nonlinear Elastodynamics