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News

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DECISION, RISK, CONTROLS & SIGINT (DRCSI)

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News

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DRCSI Director's planned lecture series in India, June 30-July 11 2014. These lectures will be expected to be attended by students and faculty from several universities across India. [Poster.](#)

Professor Radjesvarane Alexandre of Paris Tech (France) will visit NPS in late July or August and his visit is sponsored by Office of Naval Research Global Office. He was previously at the French Naval Academy (NPS Counterpart in France). Radja is a very established mathematician with particular expertise in Boltzmann equation (and of s course Radiative Transfer) and he has collaborated with Fields Medalists Cedric Villani for example. Here is his [Mathscinet citations.](#)

DRCSI NRC Fellows Dr. Jonathan Gustafsson and Dr. Vaibhav Kukreja gave exciting and very well received briefs on High Energy Laser research at USNA and in NRL-DC on May 19 and May 21.

2013 has been an exciting and productive year for DRCSI (Center for Decision, Risk, Controls & SIGINT) as the "premier center of academic excellence at NPS". [More information.](#)

Dr. Sakthivel Kumarasamy of Indian Space Research and Technology (IIST-Trivandrum) will visit us from 9th of December for a month and his visit is sponsored by ONR Global Program Office. He will pursue research with DRCSI members in stochastic analysis of viscous compressible flow.

Professor Radjesvarane Alexandre (Director of Academic Affairs of Paris Tech) will visit NPS in April 2014 and he is an internationally known mathematician with expertise in a number of areas including mathematical theory of Boltzmann equation. His visit is also sponsored by ONR Global Program Office.

Cyber research seminar: [A Tale of two "flow" theorems.](#) **Speaker:** Professor George W. Dinolt, CS Department, Naval Postgraduate School, November 21, 11 AM, Glasgow GL 130, [Slides](#)

Lecture outline for [TIO short course](#) has been posted by Professor Sivaguru Sriharan

Lecture notes on [Bayesian Nonparametrics Foundations and Applications](#) have been posted, by Professor Jayaram Sethuraman

Slides from [A survey of the Dirichlet process and its role in nonparametrics](#) have been posted, **Speaker:** Professor Jayaram Sethuraman

Slides from [DRCSI Seminar on Kinetic Models for Waves in Random Media and Related Inverse Problems](#) have been posted, **Speaker:** Professor Guillaume Bal, Columbia University

Slides from [DRCSI Seminar on Biomedical Research: Biomedicine: A fertile, challenging and worthy field for mathematical and engineering research](#) have been posted, **Speaker:** Professor K. R. Rajagopal, Texas A&M

[DRCSI Seminar on Biomedical Research: Neural Engineering for Brain-Machine Interface: Mechanisms for Direct and Indirect Robotic Control](#), **Speaker:** Professor Ravi Vaidyanathan, Imperial College London, UK, August 7, 3-4 PM, Peacock Room

[Navier-Stokes Equation with Levy Noise: Stochastic Analysis and Control](#) from Isaac Newton Institute Web Seminars, Cambridge University, **Speaker:** Professor Sriharan, Lecture date: March 30, 2010

[Lectures in IISER Trivandrum on youtube: Stochastic Navier-Stokes equations](#) **Speaker:** Professor Sriharan, Lecture date: December, 2012

[H infinity feedback boundary stabilization of two dimensional Navier Stokes' equation](#) **Speaker:** Professor Sheetal Dharmatti, Department of Mathematics, Indian Institute for Science Education and Research (IISER) Trivandrum, India, July 15, 2013

DRCSI welcomes new NRC Senior Fellow Professor Sudharman Jayaweera, June 30, 2013

[Distinguished Statistician Sethuraman to Visit NPS](#) for OR Colloquium, May 5, 2013

[Shock Waves, Vortex Sheets and Supersonic Flow](#)

DRCSI's newly arrived NRC Fellow Dr. Vaibhav Kukreja speaks about his research on interaction of shock waves and vortex sheets in aerodynamics on Wednesday, 3 Apr at 1500, Tuesday, March 26, 2013

[DRCSI Seminar on Decay of Hydrodynamic Signatures.](#)

Renown mathematician in decay theory of hydrodynamics and magnetohydrodynamics Professor Maria Schonbek of UCSC to lecture NPS faculty and students. Tuesday, February 19, 2013

[DRCSI Seminar on Computational Analysis of Hydrodynamic Wake](#)

Newly arrived DRCSI National Research Council Fellow Dr. Jonathan Gustafsson speaks about computational simulation of hydrodynamic wake structure. Thursday, January 31, 2013

[Friday, 27 Jan 12-NPS-DRCSI Young Scholars Network Seminar](#)

NPS-DRCSI Young Scholars Network presents Multiobjective Optimization for Resource Allocation in Wireless Multihop Mobile Networks Seminar by Professor Preetha Thulasiraman, January 25, 2013

[DRCSI Seminar on Directed Energy Weapons \(DEW\).](#)

Columbia University Professor Guillaume Bal to lecture NPS faculty and students on detection and assessment of High Energy Laser Weapon attack. Monday, January 7, 2013

[NPS-DRCSI Young Scholars Network Presents](#)

Multiobjective Optimization for Resource Allocation in Wireless Multihop Mobile Networks Seminar by Professor Preetha Thulasiraman. January 4, 2013

"A Method for Optimally Controlling Unsteady Shock Strength in One Dimension," will be published in the AIAA Journal. Authors: Nathan Moshman, Garth Hobson (MAE) and Sivaguru Sriharan.

Dr. Jonathan Gustafsson of McMaster University, Canada, will soon join DRCSI as a new National Research Council (NRC) fellow to perform research on computational methods for control of fluid flow past moving and rotating aero and hydrodynamic bodies. This research area is fundamental to a number of critical defense applications including unmanned autonomous systems, helicopter aerodynamics, and anti-submarine warfare (ASW).

erense applications including unmanned autonomous systems, helicopter aerodynamics, and antisubmarine warfare (ASW).

DRCSI's "Cyber-Enabled-Electronic-Warfare (CE2W)" initiative has received new funding from the National Reconnaissance Office (NRO) for a project to build the autonomous cognitive radio research capability at NPS using advanced techniques in signal processing and communications theory. Professor Sudharman Jayaweera of the University of New Mexico who presented an ECE colloquium on "Radiobots" on November 1st, 2012, will be expected to join DRCSI-NPS in the near future as a National Research Council (NRC) Senior Fellow to boost this research program.

DRCSI's initiative on "Economic Security" has received new funding from the Intelligence Advanced Projects Agency (IARPA) for a project to assess research programs and to perform analysis to monitor and track anomalous and malicious activities in financial networks. The research team will consist of S. S. Sritharan (DRCSI), Devaushi Singham (OR), Ned Dimitrov (OR) and Moshe Kress (OR).

National Research Council (NRC) Senior Fellow and Professor of Probability and Statistics at Michigan State University Dr. Vidyadhar Mandrekar presented a colloquium in the NPS Operations Research Department. His seminar addressed two subjects: (1) the problem of bandwidth estimation for a network-controlled robot; and (2) optimal path scheduling problems of networks.

S. S. Sritharan will give a series of fifteen lectures on "Stochastic Analysis and Control of Fluid Dynamics" at the Indian Institute of Science Education and Research (IISER) at Trivandrum, India during December 2012 as a part of the Winter School focusing on this subject area organized by IISER.

National Research Council (NRC) fellow Dr. Pani Fernando will attend the Winter School on "Stochastic Analysis and Control of Fluid Dynamics" at the Indian Institute of Science Education and Research (IISER) at Trivandrum and also deliver a seminar entitled "Nonlinear Filtering of Stochastic Navier-Stokes Equation with Levy Noise".

Kumarasamy Sakhivel and S. S. Sritharan, "Martingale Problem for Stochastic Navier-Stokes Equations with Ito-Levy Noise", Evolution Equations and Control Theory, Vol. 1, No. 2, December 2012, pp. 355-392.

DRCSI has identified an additional National Research Council (NRC) Fellow (expected to join NPS in early 2013) in the subject area of compressible fluid dynamics with shock waves and vortex sheets to build NPS' basic research critical mass in unmanned autonomous systems and antisubmarine warfare (ASW).

[DRCSI Directed Energy Weapons Seminar](#)

ROOM CHANGE: IN-278! UC Merced Professor Arnold Kim to Speak on Laser weapons Propagation and Scattering on Thursday, September 27th at 1100-1230. August 24, 2012

[Lecture series on Mathematics of Turbulence, Random Waves and Quantum Fields](#), **Speaker:** Professor Sivaguru S. Sritharan, **Location:** Bharathiar University, July 16-27, 2012

[Lecture series on Large Deviations theory](#), **Speaker:** Professor Sivaguru S. Sritharan, **Location:** Bharathiar University, February 16-22, 2012

[NPS Civilian PhD Dissertation Defense in Rocket Science](#), September 15, 2011

[Lecture series on Navier-Stokes equations: Solvability, Control and Stochastic Analysis](#), **Speaker:** Professor Sivaguru S. Sritharan, **Location:** IISER Thiruvananthapuram, February 22-March 4, 2011

[New Center Examines Future DoD Trends From a Mathematical Perspective](#)

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