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Society for Industrial and Applied Mathematics

The Washington-Baltimore Section of SIAM

is pleased to present an expository lecture

Modern Harmonic Analysis and its Biomedical Applications

by

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8:30 pm, Wednesday, November 7, 2012

Johns Hopkins University, Homewood Campus
Clipper Room, Shriver Hall

Abstract: Harmonic analysis is constantly changing and redefining itself. In this talk we shall present some of the most recent novel concepts and ideas that have shaped this field since the advent of the 21st century. The topics we shall cover include directional representations, nonlinear dimension reduction and manifold learning, compressive sensing, and heterogeneous data fusion. We shall illustrate the strength and beauty of these developments by presenting some of their applications in the field of biomedical sciences. We will see how harmonic analysis helps solve problems that arise in various modes of medical imaging or computed tomography, as well as those from genetic analysis.

Join us for dinner with the speaker beforehand!

Dinner will begin at 6:30 p.m. at Gertrude's Restaurant in the Baltimore Museum of Art, which is next to the Johns Hopkins campus. Four entrees, each priced at \$36.00, are available for your selection: Gertie's Crab Cake, Salmon alla Bella, Five-Spice Chicken, and Southeast Asian Vegetable Curry. The set price of \$36.00 is inclusive of an appetizer (choice of soup or salad), entree choice, all soft beverages (sodas, coffee, tea, etc.), choice of dessert, tax and gratuity. To attend the dinner, please send your entree choice along with a check for the appropriate amount (made out to SIAM Washington-Baltimore Section) early enough to be received by Tuesday, October 30, 2012 to our President, Jeff Sieracki, PO Box 1011, College Park, MD, 20741. PLEASE include your full name and email address and phone number with your check so that we can send you a confirmation of your reservation and may contact you in the event of any unexpected changes. If you cannot get your check to him by that date and you still want to come to dinner, please email either the President or the Treasurer by Tuesday, October 30, 2012, at jsiam@sr2group.com or pankavic@usna.edu, respectively. Gertrude's can accommodate at most fifteen diners on this occasion, so be sure to reserve in advance.

For visitor parking locations, you may refer to http://www.parking.jhu.edu/general_maps.html.
Updated parking information: http://www.parking.jhu.edu/parking_visitors.html#meterfac
This announcement can be found at <http://www.siam.org/sections/wash-balt>