UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT of MATHEMATICS

Ref: FST/SEM/067/2010

"Joint spectra of Toeplitzoperators and optimal recovery of analytic functions"

by

Prof. Michael Stessin
Professor of Department of Mathematics and Statistics
State University of New York
University at Albany

Date : 16/12/2010 (THURSDAY)
Time : 16:00 – 17:00
Venue : J322

Abstract

We consider optimal recovery problems in weighted Bergman spaces in the unit ball of \(\C^k\). We will show that if corresponding measures are Carleson and not compactly supported, optimal recovery algorithm is a limit of optimal recovery algorithms corresponding to truncated problems with compactly supported measures. We also express Lagrange equation for the dual problem in terms of joint spectra of T\"{o}eplitz operators induced by information measures and use this expression for proving that the regularity condition in the dual problem is stable.

Biography

Prof. Michael Stessin is currently a professor of the Department of Mathematics and Statistics of the State University of New York, University at Albany. His research interests are Approximation Theory; Complex Analysis; Functional Analysis and Operator Theory.

ALL ARE WELCOME!

SAMPLE

UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF COMPUTER & INFORMATION SCIENCE

Ref: FST/SEM/001/2008

"Seminar on Image conversion between hexagonal and Square Structure"

by

Prof. HE Xiangjian
Department of Computer Systems
University of Technology, Sydney

Date : 17 December 2007 (MONDAY)
Time : 16:00-17:30
Venue : J317

Abstract

Spiral Architecture (SA) is a relatively new and powerful approach to machine

vision system. The geometrical arrangement of pixels on SA can be described as a collection of hexagonal pixels. However, all the existing hardware for capturing image and for displaying image are produced based on rectangular architecture. Therefore, it becomes important to find a proper software approach to mimic SA so that images represented on the traditional square structure can be smoothly converted from or to the images on SA. For accurate image processing, it is critical to best maintain the image resolution during the image conversion. In this paper, we present an algorithm for bilinear interpolation of pixel values on a simulated SA. Our experimental results show that the bilinear interpolation improves the image representation accuracy while keeping the computation simple.

Biography

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