



Numerical Mathematics and Applied Analysis Group (NMAA)

Summer Workshop on Scientific Computing

10 July 2004 (Saturday)

Room 517 Meng Wah Complex, HKU

Morning Session

9:13 – 9:15	<i>Introduction by Michael Ng</i>
9:15 – 9:45	Raymond H. Chan <i>Department of Mathematics, The Chinese University of Hong Kong</i> <i>Principal Component Analysis for Large Distributed and Continuously Updating Data Sets</i>
9:45-10:00	Michael Wong <i>Department of Mathematics, The Chinese University of Hong Kong</i> <i>Pricing American-Style Options by Memory Reduction Monte Carlo Methods</i>
10:00-10:15	Eric S. Fung <i>Department of Mathematics, The University of Hong Kong</i> <i>Higher-Order Hidden Markov Models</i>
10:15-10:30	Edmond Wu <i>Department of Mathematics, The University of Hong Kong</i> <i>Computational Intelligence for Website Optimization</i>
10:30-10:45	Chung-Wa Ho <i>Department of Mathematics, The Chinese University of Hong Kong</i> <i>Impulse Noise Removal by Median-type Noise Detectors and Edge-preserving Regularization</i>
<i>Coffee and Tea</i>	
11:00-11:30	Man-Chung Yeung <i>Department of Mathematics, University of Wyoming</i> <i>Transpose-free Multiple Lanczos and Its Application in Pade Approximation</i>
11:30-12:00	Haiwei Sun <i>Chemical Engineering Department, University of Alabama</i> <i>High Order Accuracy of the 4-Point HNG Scheme</i>
12:00-12:15	Wai-Ki Ching <i>Department of Mathematics, The University of Hong Kong</i> <i>A Hybrid Algorithm for Queueing Systems</i>
12:15-12:30	Alfred K. Ma <i>Department of Mathematics, The Chinese University of Hong Kong</i> <i>Boundary Value Methods for Solving Transient Solutions of Markovian Queueing Networks</i>

Lunch

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Afternoon Session	
14:00-14:30	Wai-Shun Cheung Department of Mathematics, The University of Hong Kong <i>A Matrix Approach to the Geometry of Polynomials</i>
14:30-15:00	Chi-Wah Leung Po Leung Kuk Community College of Hong Kong <i>Hypercomplex Algebras generated by Square Roots of Plus Minus 1</i>
15:00-15:30	Shufang Xu School of Mathematical Sciences, Peking University <i>A Variational Approach for Robust Partial Eigenvalue Assignment Problem in Second Order Control Systems</i>
15:30-16:00	Siu-Pang Yung Department of Mathematics, The University of Hong Kong <i>Some Recent Attempts on Deblurring Images Using Wavelets</i>
<i>Coffee and Tea</i>	
16:15-16:45	Xiao-Qing Jin Faculty of Science and Technology, Macau University <i>Some Stability Properties of T. Chan's Preconditioner</i>
16:45-17:00	Michael K. Ng Department of Mathematics, The University of Hong Kong <i>Some Research Problems for Toeplitz Matrices</i>
17:00-17:15	Youwei Wen Department of Mathematics, The University of Hong Kong <i>Preconditioners Based On Gohberg-Semumcul Formula for Positive Definite Toeplitz Systems</i>
17:15-17:45	Yi-Min Wei Department of Mathematics, Fudan University <i>Recent Results on the Drazin Inverse and Singular Linear Equations</i>
17:45-18:00	Zheng-Jian Bai Department of Mathematics, National University of Singapore <i>Inverse Eigenvalue Problems</i>

Organizers: Wai-Ki Ching and Michael K. Ng

Registration and Information:

No registration is required. All are welcome. For more information, please contact:
Michael Ng, Department of Mathematics, The University of Hong Kong.

Tel: (852) 2859 2252

Email: mng@maths.hku.hk