

# **International Conference on Scientific Computing and Partial Differential Equations**

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**December 12-15, 2002  
Lam Woo Conference Center  
Hong Kong Baptist University  
Hong Kong**

**General  
Information**



# International Conference on Scientific Computing and Partial Differential Equations



*On the Occasion of Stanley Osher's 60th birthday*

**December 12-15, 2002  
Hong Kong Baptist University**

## **Invited Speakers:**

Yann Brenier (*CNRS Nice & Paris 6*)  
Tony Chan (*UCLA*)  
Chia-Kun Chu (*Columbia*)  
Bjorn Engquist (*UCLA & Princeton*)  
Yoshikazu Giga (*Hokkaido*)  
Roland Glowinski (*Houston*)  
David Gottlieb (*Brown*)  
Daniel Joseph (*Minnesota*)  
Fanghua Lin (*NYU*)  
Barry Merriman (*UCLA*)  
Guillermo Sapiro (*Minnesota*)  
Zhong-Ci Shi (*CAS, China*)  
Endre Suli (*Oxford*)  
Dimitri Vvedensky (*London*)  
Zhouping Xin (*CUHK*)  
Takashi Yabe (*Tokyo Inst. of Technology*)

## **Conference Committee:**

Russel Caflisch (*UCLA*)  
Raymond Chan (*CUHK*)  
Tony Chan (*UCLA*)  
Shiu-Yuen Cheng (*HKUST*)  
Weinan E (*Princeton*)  
Bjorn Engquist (*UCLA*)  
David Gottlieb (*Brown*)  
Mohamed Hafez (*UC Davis*)  
Fred Hickernell (*HKBU*)  
Jian-Guo Liu (*Maryland*)  
Guillermo Sapiro (*Minnesota*)  
Zhong-Ci Shi (*CAS, China*)  
Chi-Wang Shu (co-chair) (*Brown*)  
Tao Tang (co-chair) (*HKBU*)  
Dimitri Vvedensky (*London*)  
Zhouping Xin (*CUHK*)  
Pingwen Zhang (*Peking*)  
Hongkai Zhao (*UC Irvine*)

## **Sponsors:**

The Croucher Foundation  
Epson Foundation  
Hong Kong Baptist University  
The Hong Kong Mathematical Society  
Hong Kong Pei Hua Education Foundation Limited  
K.C. Wong Education Foundation  
Peking University  
PKU-HKBU Joint Research Institute for Applied Mathematics



## Preface

On behalf of the Conference Committee, welcome to Hong Kong for the International Conference on Scientific Computing and Partial Differential Equations. We hope you find the conference stimulating and your time in Hong Kong rewarding.

Over the past decade there have been very rapid developments of efficient algorithms for scientific computing and related investigations of mathematical issues for partial differential equations and image processing. As a result, many problems in diverse application fields such as fluid dynamics, image processing, computer vision, and computer graphics in the entertainment industry can now be routinely simulated to high resolution. Professor Stanley Osher has been in the forefront of many of these developments, and has published many influential original works on high resolution shock capturing schemes, level set methods, applications to multi-phase flows, computer vision, TV based image restoration, just to name a few areas. On the occasion of the 60th birthday of Professor Osher, we are organizing this international conference to review recent developments and to explore exciting new directions in scientific computing and partial differential equations for time dependent problems and its interaction with other fields.

The organizers are very grateful for the generous donations to support this conference given by

The Croucher Foundation

Epson Foundation

Hong Kong Baptist University

The Hong Kong Mathematical Society

Hong Kong Pei Hua Education Foundation Limited

K.C. Wong Education Foundation

Peking University

PKU-HKBU Joint Research Institute for Applied Mathematics.

A number of staff at Hong Kong Baptist University worked together to handle the detailed arrangements. We would especially like to thank Fred Hickernell, Elsa Fong, Tammy Lam, C. W. Yeung, Suan Choi and Amy Lee. Their help has been indispensable.

Co-Chairs of the Conference Committee:

Chi-Wang Shu

Tao Tang

# An Introduction to JRIAM

On behalf of the Peking University-Hong Kong Baptist University Joint Research Institute for Applied Mathematics (JRIAM), welcome to Hong Kong for the International Conference on Scientific Computing and Partial Differential Equations. The JRIAM also sponsors various academic activities to promote the exchange of ideas. This **International Conference on Scientific Computing and Partial Differential Equations** is the first of what we envision to be a series of conferences on scientific computing.

Each year we invite several world-renowned experts to tell us about the latest developments in their fields through our Distinguished Applied Mathematics Lecture Series. Building on a number of collaborations between scholars at Peking University and the Hong Kong Baptist University the JRIAM was established to conduct frontier research in applied mathematics, especially in the fields of scientific computing and statistics. The JRIAM aims to raise the profile of China's applied mathematics research.

The JRIAM engages in research in a variety of areas, including Scientific Computing, Applied Probability, Computational Fluid Dynamics, Data Mining, Experimental Design, Graph Theory, Monte Carlo Methods and Optimization. The JRIAM welcomes collaborators for our research. We are constantly seeking Senior academics for short-term visits of a few days up to several months, including sabbatical visitors; Postdoctoral fellows for one or two year appointments, and PhD students. If you would like to associate with the JRIAM in one of the above capacities, please contact either of the directors. Priority is given to applicants whose research records or potential match the interests of JRIAM members. The financial support we can provide depends on the funding available.

To find out more about the JRIAM or participate in any of our activities, please visit our website <http://www.math.hkbu.edu.hk/JRIAM/> or contact one of us:

Prof. Jiping Zhang  
Beijing Director, JRIAM  
School of Mathematical Sciences  
Peking University  
Beijing, 100871 China  
Email: [jzhang@pku.edu.cn](mailto:jzhang@pku.edu.cn)

Prof. Fred J. Hickernell  
Hong Kong Director, JRIAM  
Department of Mathematics  
Hong Kong Baptist University  
Kowloon Tong, Hong Kong SAR, China  
Email: [fred@hkbu.edu.hk](mailto:fred@hkbu.edu.hk)

Fred Hickernell

## Wednesday December 11, 2002

19:00 *Welcome Reception*  
*Lam Woo International Conference Center*  
20:30 *End of Reception*

## Thursday December 12, 2002

8:30 *Registration, Coffee/Tea*  
**WLB203**

9:00 **Opening Ceremony** **Chair: Tao Tang (HKBU)**  
Professor C. F. Ng, President, HKBU  
Professor Fred Hickernell, Director of JRIAM  
Professor Chi-Wang Shu, Co-organizer

9:25 **Photo**

**Plenary Session A:** **Chair: Guillermo Sapiro (Minnesota)**

9:40 Daniel D Joseph (University of Minnesota)  
*Floating Particles*

10:30 Dimitri Vvedensky (Imperial College, United Kingdom)  
*Stochastic Differential Equations for Driven Lattice Systems*

11:20 *Coffee Break*

**Contributed Talk Session A:** **Chair: Jun Zou (CUHK)**

11:40 Guowei Wei (Michigan State University)  
*A Local Spectral Method for Scientific Computing*

12:00 Fred J. Hickernell (Hong Kong Baptist University)  
*Trigonometric Spectral Methods on Lattices*

12:20 *Lunch*

**Plenary Session B:** **Chair: Zhong-Ci Shi (Chinese Academy of Sciences)**

2:00 Chia-Kun Chu (Columbia University)  
*A Revisit of Mixed Elliptic-Hyperbolic Equations*

2:50 Endre Süli (University of Oxford, United Kingdom)  
*hp-Adaptive Finite Element Approximation of Partial Differential Equations with Nonnegative Characteristic Form*

3:40 *Coffee Break*

**Contributed Talk Session B:** **Chair: Xu-Dong Liu (UCSB)**

4:00 Kun Xu (Hong Kong University of Science and Technology)  
*Gas-kinetic Schemes for Fluid Simulations*

4:20 Ning Zhao (Nanjing University of Aeronautics and Astronautics, China)  
*Applications of Ghost Fluid Methods to Instabilities of Fluid Interfaces and Synthetic Jet*

4:40 Antonio Marquina (University of Valencia, Spain)  
*Capturing Material Interfaces with High Order Conservative Methods*

5:00 Weijun Tang (Institute of Applied Physics and Computational Mathematics, China)  
*Simulation of Fluid Interface Instability*

5:20 Dong Li (Princeton University)  
*Chebyshev Spectral Methods on Lattices*

5:40 Zhongyi Huang (Tsinghua University, China)  
*Atomistic-Continuum Method for the Simulation of Crystalline Materials*

6:30 *Dinner (Refrew Seafood Restaurant, Baptist University Campus)*

## Friday December 13, 2002

- 8:40 *Coffee/Tea*  
**WLB203**
- Plenary Session C:** **Chair: David Gottlieb (Brown)**
- 9:00 Fanghua Lin (Courant Institute, NYU)  
*Multi-Energy Levels and Time Scales for Coupled Schrodinger Dynamics*
- 9:50 Yann Brennier (CNRS Nice and Universite Paris 6, France)  
*Extended Optimal Transportation Theory*
- 10:40 *Coffee Break*
- Contributed Talk Session C:** **Chair: Xiao-Ping Wang (HKUST)**
- 11:00 I-Liang Chern (National Taiwan University, Taiwan)  
*Acceleration Methods for Total Variation-based Image Restoration*
- 11:20 Ola Marius Lysaker (University of Bergen, Norway)  
*Noise Removal Using Fourth-Order Partial Differential Equations with Applications to Medical Magnetic Resonance Images in Space and Time*
- 11:40 Guojun Liao (University of Texas)  
*An Adaptive Moving Mesh Algorithm for Finite Elements*
- 12:00 Justin Wan (University of Waterloo, Canada)  
*Essentially Nonoscillatory Multigrid Time Stepping Schemes*
- 12:20 Boris N. Azerenok (Computing Center of Russian Academy of Sciences, Russia)  
*Adaptive Mesh Redistribution Method in Hyperbolic Problems of Gas Dynamics*
- 12:40 *Lunch*
- Plenary Session D:** **Chair: Jian-Guo Liu (Maryland)**
- 2:10 Zhong-Ci Shi (Chinese Academy of Sciences, China)  
*Some Low Order Quadrilateral Reissner-Mindlin Plate Elements*
- 3:00 Guillermo Sapiro (University of Minnesota)  
*Image Inpainting and Camouflage: Do Not Believe What You See*
- 3:50 *Coffee Break*
- Contributed Talk Session D:** **Chair: Xiaonan Wu (HKBU)**
- 4:10 Huaxiong Huang (York University, Canada)  
*Motion of Liquid Drops on a Solid Surface*
- 4:30 De-Kang Mao (Shanghai University, China)  
*Towards Front-Tracking Based on Conservation in Two Space Dimensions, Tracking Fronts on Cartesian Grid*
- 4:50 Francesc Arandiga (University of Valencia, Spain)  
*Zooming into an Image with ENO Interpolation*
- 5:10 Susana Serna (University of Valencia, Spain)  
*Power ENO Methods: A Fifth Order Accurate Weighted Power ENO Method*
- 5:30 Chi-Tien Lin (Providence University, Taiwan)  
*Revisit Convex ENO Schemes*
- 6:00 *Bus to Kowloon Club, Tsim Sha Tsui*
- 6:30 *Drink session (harbour view)*
- 7:30 *Conference Banquet at Kowloon Club, Tsim Sha Tsui*

## Saturday December 14, 2002

- 8:40 *Coffee/Tea*  
**WLB203**
- Plenary Session E:** **Chair: Fred Hickernell (HKBU)**
- 9:00 Tony Chan (UCLA)  
*PDE and Wavelet Techniques for Image Compression*
- 9:50 Zhouping Xin (The Chinese University of Hong Kong)  
*Shock Wave for Supersonic Flow Past a Perturbed Cone*
- 10:40 *Coffee Break*
- Contributed Talk Session E:** **Chair: Michael Ng (HKU)**
- 11:00 Jun Zou (The Chinese University of Hong Kong)  
*Some Iterative Solutions of Saddle-point and Saddle-point Like Systems*
- 11:20 Xiao-Ping Wang (Hong Kong University of Science and Technology)  
*On Moving Contact Line Hydrodynamics of Immiscible Fluid*
- 11:40 Hua Chen (Wuhan University, China)  
*On the Simplified Keller-Segel System Modelling Chemotaxis*
- 12:00 Wei-Cheng Wang (National Tsing Hua University, Taiwan)  
*A Jump Condition Capturing Scheme for Elliptic Interface Problems*
- 12:20 Rosa Donat (University of Valencia, Spain)  
*Shock-Vortex Interaction at High Mach Numbers*
- 12:40 *Lunch*
- Plenary Session F:** **Chair: Hongkai Zhao (UC Irvine)**
- 2:10 Yoshikazu Giga (Hokkaido University, Japan)  
*A Level Set Approach for Solutions with Shocks of Order Preserving Evolution Equations*
- 3:00 Barry Merriman (UCLA)  
*A Mathematician's Perspective on Molecular Biology*
- 3:50 *Coffee Break*
- Contributed Talk Session F:** **Chair: Weiwei Sun (CityU)**
- 4:10 Chong Sze Tong (Hong Kong Baptist University)  
*Advances in Snake Algorithms*
- 4:30 Steve Bryson (NASA Ames Research Center)  
*High-Order Semi-Discrete Central-Upwind Schemes for Multi-Dimensional Hamilton-Jacobi Equations*
- 4:50 Vicente F. Candela (University of Valencia, Spain)  
*How Accurate can we Compute the Length of Level Curves?*
- 5:10 Yu-Xin Ren (Tsinghua University, China)  
*A Shock Instability Free FDS Scheme Based on Rotated Riemann Solvers*
- 5:30 Shu Wang (Vienna University, Austria)  
*Quasineutral Limit of Euler-Poisson System with and without Viscosity*

## Sunday December 15, 2002

- 8:40 Coffee/Tea  
WLB203
- Plenary Session G:** **Chair: Bjorn Engquist (Princeton/UCLA)**
- 9:00 David Gottlieb (Brown University)  
*On the Engquist Majda Absorbing Boundary Conditions for Hyperbolic Systems*
- 9:50 Takashi Yabe (Tokyo Institute of Technology, Japan)  
*Universal Solver CIP for All Phases of Matter*
- 10:40 Coffee Break
- Contributed Talk Session G:** **Chair: Zhen-Huan Teng (Peking)**
- 11:00 Jian-Guo Liu (University of Maryland)  
*Energy and Helicity Preserving Scheme*
- 11:20 Steve Ruuth (Simon Fraser University, Canada)  
*Recent Advances in Strong-Stability-Preserving Runge-Kutta Methods*
- 11:40 Wai-Sun Don (Brown University)  
*Spectral Convergence of Mapped Chebyshev Methods*
- 12:00 Xu-Dong Liu (University of California, Santa Barbara)  
*A Numerical Method for Solving Variable Coefficient Elliptic Equation with Interfaces*
- 12:30 Lunch
- Plenary Session H:** **Chair: Shiu-Yuen Cheng (HKUST)**
- 2:00 Roland Glowinski (University of Houston)  
*Numerical Methods for the Solution of a System of Eikonal Equations with Dirichlet Boundary Conditions*
- 2:50 Bjorn Engquist (UCLA & Princeton, USA)  
*Heterogeneous Multiscale Methods*
- 3:40 **Closing Session** **Chair: Chi-Wang Shu (Brown)**

## **Social Activity**

### **Welcome Reception:**

A Welcome Reception will be held at the Lam Woo International Conference Center from 7:00pm - 8:30pm on Wednesday, December 11, 2002 for participants to pick up their conference kits and to enable them to meet each other. A shuttle bus will pick up participants at Royal Plaza Hotel at 6:20pm to take them to the Reception and return at 8:30pm.

### **Thursday evening's dinner**

The conference will provide a dinner in the Renfrew Seafood Restaurant at 6:30pm on December 12, 2002. Conference participants may attend the dinner at no extra charge.

### **Conference Banquet:**

The Conference banquet will be held on Friday night, December 13, at Kowloon Club, (<http://www.kowloonclub.com.hk>), Tsim Sha Tsui. Participants will enjoy a Chinese banquet (Shanghainese food). Conference invited speakers, organizing committee members and participants who paid the registration fee may attend the banquet at no extra charge. Please check your registration package to see if you have been given a banquet ticket. Guests may attend the banquet by purchasing a ticket in advance at the information desk at a subsidized price of HK\$300.

A shuttle bus will take participants and guests to the restaurant and back to the hotel after the banquet. The bus will leave Lam Woo International Conference Center at 6:00pm. A drink session (with soft drink, beer and wine) will be held from 6:30pm to 7:30pm in the Kowloon Club's open area where you can enjoy the harbour view.

### **Japan CMD Award to be presented in the Banquet**

The Japan Society of Mechanical Engineers (JSME) Computational Mechanics Division (CMD) will present the 2002 Computational Mechanics Award to Professor Stanley Osher during the conference banquet. JSME is the largest society in Japan with 42,000 members. The CMD has 5,300 members and is one of the largest division in JSME. The President of CMD, Professor Takashi Yabe, will present the award plaque to Professor Osher – see also next page.

The Japan Society of Mechanical Engineers  
Computational Mechanics Division

presents the  
2002

## COMPUTATIONAL MECHANICS AWARD

Established in 1990 by the Computational Mechanics Division

to

**Professor STANLEY OSHER**

For his long-time contributions to research and service  
in the computational mechanics field

(Signature by Chairman of  
Computational Mechanics Division, JSME)

Chairman  
Computational Mechanics  
Division, JSME

## Useful Information

### **Lunches and Tea Breaks:**

In order to facilitate informal discussion among participants complimentary lunches and tea breaks will be provided. The tea breaks will be held outside the lecture halls. Lunches will be held in the Renfrew Seafood Restaurant, located one floor above the lecture halls. Guests wishing to join the lunches may purchase tickets at the information desk at a subsidized price of HK\$60.

### **Conference Venue**

The Conference will be held in lecture hall WLB 203 of the Lam Woo International Conference Centre of Hong Kong Baptist University. Unless you have made other arrangements for yourself, you will be staying at NTT (the Ng Tor Tai International Guest House) across the street from the conference centre.

### **Information Desk**

During the Conference, there will be an information desk in the lobby of the conference. If you have any questions or need help, please ask anyone sitting there. Near the information desk there will be a notice board with updated information about the Conference. Please check the notice board frequently. The information desk will have a limited amount of stationery supplies should you need something. Staff at the desk can also help you to make a limited amount of photocopying.

### **Internet Access**

There will be computer terminals available nearby, where you can have access to the internet and check your e-mail. Anyone who wants to distribute pamphlets or preprints can leave the materials at the information desk.

### **Instructions to Speakers**

The lecture hall will be equipped with two overhead projectors and a whiteboard. If you need any additional equipment, such as video projector, slide projector or computer, please notify us by December 10 so that we can make the necessary arrangements.



A map showing the location of the Conference Center, NTT guest house and information on how to get to Kowloon Tong MTR Station.

# Coming and Going

## **Before You Come**

Please make sure your travel documents and visas are in order. All visitors to Hong Kong must hold a valid passport. Residents of some countries require a visa to enter Hong Kong. This can be obtained through any Chinese Consulate. You are advised to buy your own travel insurance before you come. If you have special dietary requirements, please inform us by e-mail or fax.

## **Upon Arrival**

Upon arrival in Hong Kong you are advised to obtain HK\$500 cash for initial expenses (US\$1 app. HK\$7.75). Money can be exchanged at the minibank at the Hong Kong International Airport, Lo Wu or Kowloon railway station. You may also withdraw Hong Kong dollars from ATMs.

A map showing the location of the Conference Center, NTT guest house and information on how to get to the Conference Center from the airport or railway stations is given on page 10. Unless your accommodation is being supported by the Conference, you are responsible for paying your accommodation by credit card or cash.

## **Check-in**

The hotel registration desks are open 24 hours. A Welcome Reception will be held at the Lam Woo International Conference Center of Hong Kong Baptist University from 7:00pm - 8:30pm on Wednesday, December 11, 2002, where you may pick up your conference materials. Materials can also be picked up at the information desk during the hours of the conference.

## **Traveling, Eating and Shopping**

Hong Kong has an efficient public transportation system that includes buses, taxis, a railway (KCR) and an underground railway (MTR). For sight-seeing and shopping, the most convenient form of travel is the KCR (New Territories) and the MTR (Hong Kong Island and Kowloon). Both the KCR and the MTR have Kowloon Tong stations, which are within walking distance to the Baptist University. For those places not directly accessible by railway, it is suggested that you take a taxi to and from the nearest railway station.

We may have the highest number of restaurants per capita in the world. If you enjoy exploring, you will find Hong Kong offers all kinds of cuisine (Chinese, Japanese, Thai,

Vietnamese, American, European, etc.) in all kinds of environments (from outdoor stalls to elegant restaurants). However, the correlation between the quality of food and the price is low.

Around the corner from the Conference Center is a student cafeteria serving inexpensive food. On Junction Road near the conference venue there is a Park'n Shop supermarket and several restaurants and several banks. Two nearby shopping centers are Lok Fu Shopping Centre (at Lok Fu MTR station) and Festival Walk (at Kowloon Tong MTR station). Lok Fu has a more local flavour while Festival Walk is more modern and more expensive. It is a 15-minute walk from the University to either of these shopping centres.

Tsim Sha Tsui and Causeway Bay are two large shopping areas in Hong Kong. The Hong Kong Tourist Association also provides information at the airport and at either terminus of the Star Ferry on where to shop. You can exchange foreign currency into local currency at NTT, money changers, or banks (usually the best rate). Almost everywhere in Hong Kong there are automatic teller machines that dispense local currency to holders of major credit cards.

## **Climate**

Hong Kong's climate is sub-tropical, tending towards temperate for nearly half the year. Gales are not unusual during December. Air-conditioning is very popular in Hong Kong. Thus, we recommend you to bring a sweater or jacket with you. The table below shows some useful meteorological normals and extremes for Hong Kong's December in 2000.

Rainfall: Total 56.0mm

Temperature: Mean 18.9°C, Max 21°C, Min 17.0°C

Relative humidity: Mean 76%

## **If Departing by Air**

Please remember to reconfirm your return flight soon after arrival. Also put aside the HK\$100 per person departure tax that will be required when you leave Hong Kong by air.

## Conference Hotels

### How to Get to the Ng Tor Tai International Guest House

Ng Tor Tai International Guest House

32 Renfrew Road

Kowloon Tong, Hong Kong

Tel: (852) 2301-2301; Fax: (852) 2191-9333

E-mail: [nttbook@hkbu.edu.hk](mailto:nttbook@hkbu.edu.hk)

Website: <http://www.hkbu.edu.hk/ntt/> (English version)

Website: <http://www.hkbu.edu.hk/ntt/cntt.html> (Chinese Version)

From	By	Fare	Estimate Time
Hong Kong International Airport	E22 Bus	HK\$18	1 hour
	Taxi	app. HK\$300	35 minutes
Kowloon Tong KCR or MTR station	Walk		15 minutes
	Taxi	app. HK\$20	5 minutes
Hung Hom KCR station	KCR to the Kowloon Tong station and then walk	HK\$3.5	10 minutes KCR + 15 minutes walk
	Taxi	app. HK\$40	25 minutes

### How to Get to the Royal Plaza Hotel

Royal Plaza Hotel

193, Prince Edward Road West

Kowloon, Hong Kong

Tel: (852) 2928-8822; Fax: (852) 2606-0088

Website: <http://www.royalplaza.com.hk/>

From	By	Fare	Estimate Time
Hong Kong International Airport	coach service by hotel	HK\$90	35 minutes
	E21 Bus to Prince Edward MTR station and then walk	HK\$14	1 hour bus + 7 minutes walk
	Taxi	app. HK\$300	35 minutes
Kowloon Tong KCR or MTR station	KCR to the Mong Kok station and then walk	HK\$3.5	2 minutes KCR +3 minutes walk
	Taxi	app. HK\$30	10 minutes

Remark: Taxis charge passengers for all tunnel tolls plus HK\$5 for handling each piece of luggage.

You may show this page to taxi driver if you want to go to the conference venue or NTT International House.



## 吳多泰博士國際中心

香港浸會大學

香港九龍塘聯福道32號

電話: (852) 2301 2301

傳真: (852) 2191 9333

電子郵件: [ntt@hkbu.edu.hk](mailto:ntt@hkbu.edu.hk)

## NTT International House

Hong Kong Baptist University

32 Renfrew Road, Kowloon Tong

Hong Kong

Tel: (852) 2301 2301

Fax: (852) 2191 9333

E-mail: [nttbook@hkbu.edu.hk](mailto:nttbook@hkbu.edu.hk)

**NTT** International House was established by Hong Kong Baptist University in 1997 to provide accommodations in a pleasant and convenient environment for guests and visitors. It is situated at the classy & quiet Kowloon Tong area, within easy access to the Mass Transit Railway and Kowloon-Canton Railway for downtown business and sightseeing. The well-known shopping complex in the neighbourhood with fine dining and entertainment facilities, "Festival Walk" is especially beneficial to shoppers, international tourists & frequent business travellers.

NTT International House can accommodate convention and meeting groups, with Lam Woo International Conference Centre being next door. Guests are welcome to make use of campus facilities, such as sports facilities.



## Miscellaneous

### About Hong Kong

Hong Kong (<http://www.info.gov.hk>, <http://www.hkta.org>) is a modern metropolis influenced by both oriental and western cultures and home to over 6 million people. The native tongue of most residents is Cantonese, but English and Mandarin speakers can get around easily. The local currency has an approximate exchange rate of HK\$7.8 to US\$1.

### Local Travel

Hong Kong has an excellent public transportation system consisting of trains, buses and taxis. Generally, frequency of service is every few minutes. The Hong Kong Baptist University is a short walk from the Kowloon Tong underground subway (MTR) and railway (KCR) interchange.

### International Travel & Visas

Visitors to Hong Kong from some countries require visas. If you are in doubt, please contact the Chinese Consulate nearest you. Some conference participants may wish to visit the Chinese Mainland before or after the conference. All foreigners visiting the Mainland require a visa, which may be obtained from the Chinese Consulate. However, for short trips to the Mainland you may obtain a tourist visa in Hong Kong within a matter of a few days.

### Conference Proceedings

A special volume of Contemporary Mathematics based on this conference will be published by American Mathematical Society (eds. S Y Cheng, C.-W. Shu and T. Tang). However, the contributions to this special volume are based on invitation.