



WIFS'2013

**IEEE International Workshop on
Information Forensics and Security**

November 18~21, 2013 Guangzhou

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Technical Program at a Glance

WIFS'13 Schedule

	Day 1 (Nov. 18)	Day 2 (Nov. 19)	Day 3 (Nov. 20)	Day 4 (Nov. 21)
8:40--9:00		Welcome		
9:00--10:00	Tutorial 1	Keynote 1	Keynote 2	Keynote 3
10:00--10:30		Break	Break	Introduction session
10:30--10:50	Break	Oral Session 1: Privacy (6)	Oral Session 4: Data hiding and traitor tracing (6)	Break
10:50--12:30	Tutorial 1			Demo and Poster Session
12:30--14:00	Lunch	Lunch (White Tiger Restaurant)	Lunch (Butterfly Gourmet Court)	Lunch (White Tiger Restaurant)
14:00--15:40	Tutorial 2	Oral Session 2: Multimedia forensics I (5)	Dedicated session: Multimedia forensics challenge	Oral Session 6: Cybersecurity (5)
15:40--16:00		Break		Break
16:00--16:30	Tutorial 2	Oral Session 3: Biometrics I (5)	Break	Oral Session 7: Biometrics II (4)
16:30--17:30			Oral Session 5: Multimedia Forensics II (4)	
17:30--17:50				Conclusions and Farewell
Evening	Welcome Reception	Pearl River Night Cruise	Banquet	

WIFS'13 Detailed Technical Program

Monday 18th November 2013, Convention Center 210-211Hall

09:00-12:30	Tutorial 1: Image Statistical Models for Information Forensics Yun Q. Shi, New Jersey Institute of Technology, USA
12:30-14:00	Lunch
14:00-17:30	Tutorial 2: The Information Forensics and Security Challenges of Big Data Eric W. D. Rozier, Miami University, USA
18:00-20:00	Welcome Reception, Convention Center 212-213Hall

Tuesday 19th November 2013, Convention Center 210-211Hall

08:40-09:00	Welcome
09:00-10:00	Keynote 1: From Scientific Publication to Commercial Product Jaap Haitsma, Civolution, The Netherlands <i>Chair: Ton Kalker</i>
10:00-10:30	Coffee Break
10:30-12:30	Oral Session 1: Privacy <i>Chair: Alessandro Piva</i>
10:30-10:50	<i>Secure Evaluation of Private Functions through Piecewise Linear Approximation</i> Riccardo Lazzeretti, Tommaso Pignata, Mauro Barni
10:50-11:10	<i>Privacy-Preserving Recommender Systems in Dynamic Environments</i> Z. Erkin, T. Veugen, R. L. Lagendijk
11:10-11:30	<i>Integrated Secure Watermark Detection And Privacy Preserving Storage in the Compressive Sensing Domain</i> Qia Wang, Wenjun Zeng and Jun Tian
11:30-11:50	<i>Fast and Secure Similarity Search in High Dimensional Space</i> Teddy Furon, Hervé Jégou, Laurent Amsaleg , Benjamin Mathon
11:50-12:10	<i>Building a Privacy-Preserving Semantic Overlay for Peer-to-Peer Networks</i> Niels Zeilemaker ,Zekeriya Erkin, Paolo Palmieri, Johan Pouwelse
12:10-12:30	<i>The Perils of Cross-Silo Deduplication: Trading User Security for Provider Storage Efficiency</i> Eric Rozier
12:30-14:00	Lunch

14:00-15:40	Oral Session 2: Multimedia forensics I <i>Chair: Y. Q. Shi</i>
14:00-14:20	<i>The Watchful Forensic Analyst: Multi-Clue Information Fusion with Background Knowledge</i> Marco Fontani, Enrique Argones-Rúa, Carmela Troncoso and Mauro Barni
14:20-14:40	<i>Feature-Based Classification for Audio Bootlegs Detection</i> P. Bestagini , M. Zanoni , L. Albonico , A. Paganini , A. Sarti , S. Tubaro
14:40-15:00	<i>Exploring Color Information to Characterize Camcorder Piracy</i> Juan José Moreira-Pérez, Bertrand Chupeau, Gwenaél Doërr, and Séverine Baudry
15:00-15:20	<i>ENF Based Location Classification of Sensor Recordings</i> Adi Hajj-Ahmad, Ravi Garg, and Min Wu
15:20-15:40	<i>Splicing Detection in Out-of-Focus Blurred Images</i> Khosro Bahrami , Alex C. Kot and Jiayuan Fan
15:40-16:00	Coffee break
16:00-17:50	Oral Session 3: Biometrics I <i>Chair: Alex Kot</i>
16:00-16:20	<i>Separate MAP Adaptation of GMM Parameters for Forensic Voice Comparison on Limited Data</i> Chee Cheun Huang, Julien Epps, Ewald Enzinger
16:20-16:40	<i>Unsupervised Multi-view Dimensionality Reduction with Application to Audio-Visual Speaker Retrieval</i> Xuran Zhao, Nicholas Evans , Jean-Luc Dugelay
16:40-17:00	<i>Testing the Validity and Reliability of Forensic Voice Comparison Based on Reassigned Time-Frequency Representations of Chinese /iaʊ/</i> Ewald Enzinger
17:00-17:20	<i>Restoring Blood Vessel Patterns from JPEG Compressed Skin Images for Forensic Analysis</i> Xiaojie Li, Adams Wai-Kin Kong
17:20-17:40	<i>ECG Biometric Recognition: Permanence Analysis of QRS Signals for 24 Hours Continuous Authentication</i> Ruggero Donida Labati, Roberto Sassi, Fabio Scotti
18:00 -20:30	Pearl River Night Cruise

Wednesday 20th November 2013, Convention Center 210-211Hall

09:00-10:00	Keynote 2: Security and Privacy in the Cloud Pierangela Samarati, Università degli Studi di Milano, Italy <i>Chair: Mauro Barni</i>
10:00-10:30	Coffee break
10:30-12:30	Oral Session 4: Data hiding and traitor tracing <i>Chair: Teddy Furon</i>
10:30-10:50	<i>Optimum Perfect Steganography of Memoryless Sources as a Rate-Distortion Problem</i> Félix Balado, David Haughton
10:50-11:10	<i>The Holey Grail: A special score function for non-binary traitor tracing</i> B. Škorić, J.-J. Oosterwijk, J. Doumen
11:10-11:30	<i>Correlation-and-bit-aware Multiplicative Spread Spectrum Embedding for Data Hiding</i> Xiaoqiang Zhang, Z. Jane Wang
11:30-11:50	<i>Dynamic Traitor Tracing Schemes, Revisited</i> Thijs Laarhoven
11:50-12:10	<i>Towards Transferable Watermarks in Buyer-Seller Watermarking Protocols</i> Björn Terelius
12:10-12:30	<i>A GA Optimization Approach to HS Based Multiple Reversible Data Hiding</i> Junxiang Wang, Jiangqun Ni
12:30-14:00	Lunch
14:00-16:00	Dedicated session: Multimedia forensics challenge <i>Chair: Mauro Barni</i>
16:00-16:30	Coffee break
16:30-17:50	Oral Session 5: Multimedia forensics II Session Chair: Anthony Ho
16:30-16:50	<i>Set-Membership Identification of Resampled Signals</i> David Vázquez-Padín, Pedro Comesaña, Fernando Pérez-González
16:50-17:10	<i>Joint Detection of Full-Frame Linear Filtering and JPEG Compression in Digital Images</i> Valentina Conotter, Pedro Comesaña, Fernando Pérez-González
17:10-17:30	<i>Forensically Determining the Order of Signal Processing Operations</i> Matthew C. Stamm, Xiaoyu Chu, K. J. Ray Liu
17:30-17:50	<i>Near Optimal Detection of Quantized Signals and Application to JPEG Forensics</i> Tiziano Bianchi, Alessandro Piva, Fernando Pérez-González
18:00-20:00	Banquet, Butterfly Gourmet Court (Chimelong Hotel)

Thursday 21th November 2013 , Convention Center 210-211Hall

09:00-10:00	Keynote 3: Authentication on Emerging Interfaces Nasir Memon, Polytechnic Institute of New York University, USA <i>Chair: Wenjun Zeng</i>
10:00-10:30	Introduction session <i>Chair: Fernando P. Gonzalez</i>
10:30-10:50	Coffee break
10:50-12:30	Demo and Poster Session , Convention Center 212 Hall <i>Chair: Fernando P. Gonzalez and Xiangui Kang</i>
	<p><u>IEEE T-IFS Paper Presentations:</u></p> <p><i>The Individuality of Relatively Permanent Pigmented or Vascular Skin Marks (RPPVSM) in Independently and Uniformly Distributed Patterns</i> Arfika Nurhudatiana, Adams Wai-Kin Kong, Deborah Chon, Lisa Altieri, Siu-Yeung Cho , and Noah Craft</p> <p><i>A Real-Time Design Based on FPGA for Expeditious Error Reconciliation in QKD System</i> Ke Cui, Jian Wang, Hong-Fei Zhang, Chun-Li Luo, Ge Jin, and Teng-Yun Chen</p> <p><u>Work-in-Progress Presentations:</u></p> <p><i>Privacy threats for Facebook users in internet censoring countries like China</i> Feno Heriniaina Rabevohitra</p> <p><i>Improving Conditional Probability Based Camera Source Identification</i> Syamsul Yahaya, Anthony TS Ho and Shujun Li</p> <p><i>Writing on Dirty Paper with Binary Auxiliary Random Variable</i> Andrea Abrardo, Mauro Barni</p> <p><i>Collusion Deterrence in Multi-Party Computation –An Evolutionary Game-Theoretic Approach</i> Zhaohong Wang, Sen-ching Cheung</p> <p><i>How to Construct Progressive Visual Cryptography Schemes</i> Hachiro Fujita, Wenjuan Wang</p> <p><i>Estimation of Noise Channel from Fingerprinting Codeword</i> Minoru Kuribayashi</p> <p><i>Detecting Frame Deletion in H.264 Video</i> Hongmei Liu, Songtao Li</p> <p><i>ECG Signal Storing and Transmitting in the Cloud Storage for a Privacy-Preserving Diagnosis System,</i> Daili Zhang, Jiansheng Huang</p>

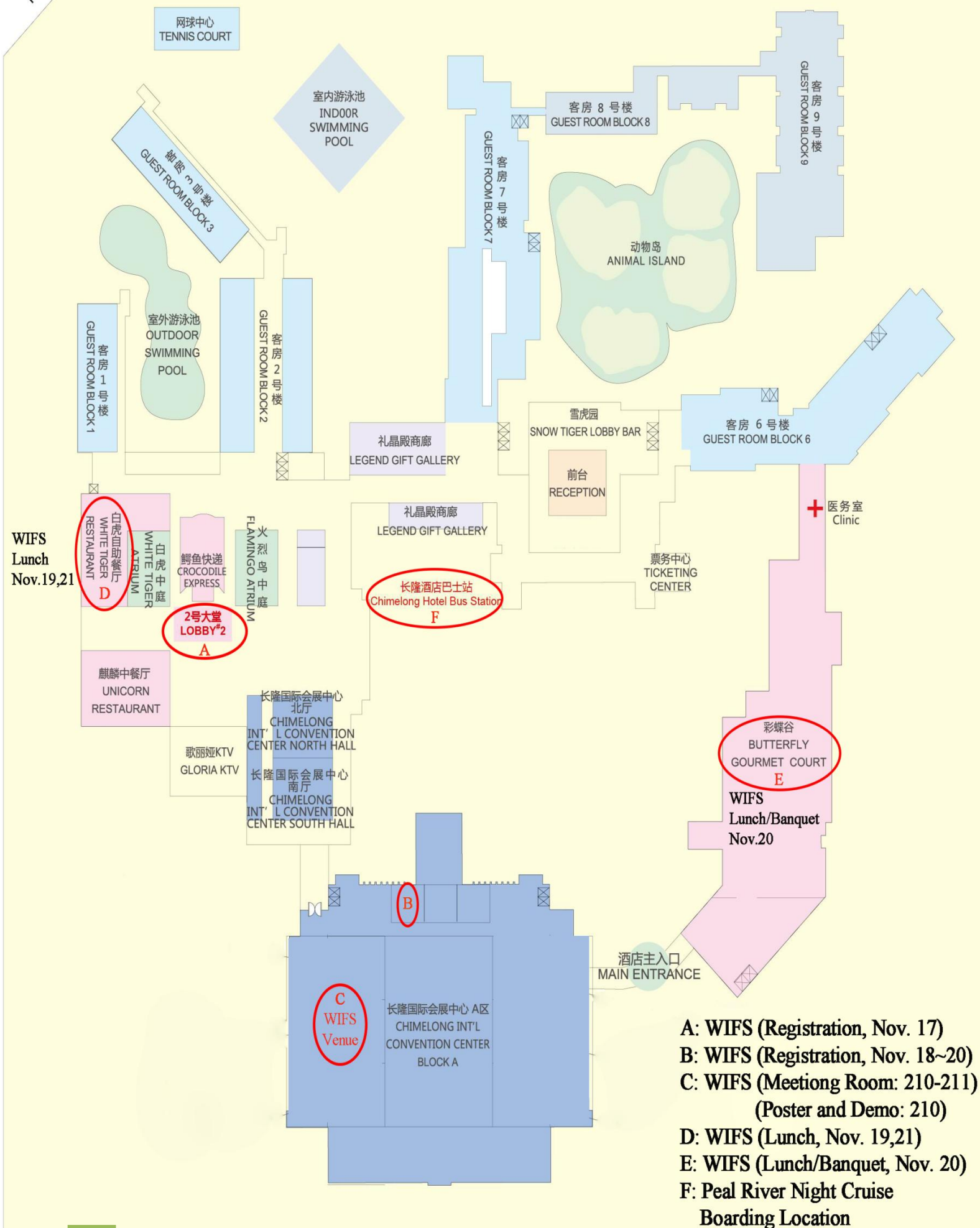
	<p><u>Demos:</u></p> <p><i>Universal Counter Forensics: Remove All the Traces from The Histogram of Your Processed Image</i> Marco Fontani, Benedetta Tondi, Mauro Barni</p> <p><i>Rambutan: Scalable Secure Cloud Deduplication</i> Miguel Gavidia ,Alejandro Lorenzo, Eric W. D. Rozier</p> <p><i>Audio Analyser: Audio Authenticity Analysis Tool</i> Rui Yang, Jiwu Huang</p>
12:30-14:00	Lunch
14:00-15:40	<p>Oral Session 6: Cybersecurity</p> <p><i>Chair: Gwenael Doerr</i></p>
14:00-14:20	<p><i>Multiple-Observation Hypothesis Testing under Adversarial Conditions</i> Mauro Barni, Benedetta Tondi</p>
14:20-14:40	<p><i>The Flow Fingerprinting Game</i> Juan A. Elices, Fernando Pérez-González</p>
14:40-15:00	<p><i>Attacking image classification based on Bag-of-Visual-Words</i> Ambra Melloni, Paolo Bestagini, Andrea Costanzo, Mauro Barni, Marco Tagliasacchi and Stefano Tubaro</p>
15:00-15:20	<p><i>Shot-Based Temporally Respective Frame Generation Algorithm for Video Hashing</i> Xiaocui Liu, Jiande Sun, Ju Liu, Jiande Sun, Ju Liu</p>
15:20-15:40	<p><i>Towards a Realistic Channel Model for Security Analysis of Authentication Using Graphical Codes</i> Cléo Baras and François Cayre</p>
15:40-16:00	Coffee break
16:00-17:30	<p>Oral Session7: Biometrics II</p> <p><i>Chair: Jean-Luc Dugelay</i></p>
16:00-16:20	<p><i>Robust Visual Tracking Using Local Salient Coding and PCA Subspace Modeling</i> Dajun Lin, Huicheng Zheng, Donghong Ma</p>
16:20-16:40	<p><i>A Bayesian Approach for Modeling Sensor Influence on Quality, Liveness and Match Score Values in Fingerprint Verification</i> Ajita Rattani, Norman Poh, Arun Ross</p>
16:40-17:00	<p><i>De-Duplication Errors in a Biometric System: An Investigative Study</i> Brian DeCann, Arun Ross</p>
17:00-17:20	<p><i>Hashing Fingerprints for Identity De-duplication</i> Yi Wang, Pong C. Yuen, Yiu-Ming Cheung</p>
17:30-17:40	Conclusions and Farewell



Area Map with Conference Locations



Floor Plans



- A: WIFS (Registration, Nov. 17)
- B: WIFS (Registration, Nov. 18~20)
- C: WIFS (Meeting Room: 210-211)
(Poster and Demo: 210)
- D: WIFS (Lunch, Nov. 19,21)
- E: WIFS (Lunch/Banquet, Nov. 20)
- F: Peal River Night Cruise
Boarding Location



Activity Guidance

■ On-Site Registration

- (1) Nov.17th: 14: 00-17: 00 , Location: Lobby No.2, Chimelong Hotel.
- (2) Nov.18-20th: 8:30-16:30 , Location: the Lobby of Chimelong International Convention Center

■ Meeting Rooms

- (1) Nov.18th-21st: The meeting room is at Room 210-211, Chimelong International Convention Center;
- (2) Nov.21st: the POSTER and Demo section is at the Room 212.

■ Lunch

Lunch on Nov. 19-21 will be provided (Nov.18th: Lunch is self-arranged.). Meal ticket is needed for lunch. All tickets are attached with the registration receipt. Dining addresses are as follows:

- (1) Nov.19th: The buffet lunch is arranged at the White Tiger Restaurant.
- (2) Nov.20th: The buffet lunch is arranged at Butterfly Gourmet Court.
- (3) Nov.21th: The buffet lunch is arranged at the White Tiger Restaurant.

■ Welcome Reception

Nov.18th 18:30-21:00

Location: Room 212-213 of the Convention Center. (Admission tickets needed)

■ Pearl River Night Cruise

Nov.19th 17:40-21:00. Pearl River Night Cruise (Ticket needed. Dinner will be served on the boat.)

岭南印象



Please gather at the Chimelong Hotel Bus Station (opposite to the Convention Center) between **17:40-18:00** and then take buses together to Zhongda dock. Please present your Pearl River Night Cruise ticket to take the bus according to the number of the ticket. e.g.: those whose ticket numbers range from **A1-A50** should get on the bus “**A**”; those whose ticket numbers range from **B1-B50** should get on the bus “**B**”; those whose ticket numbers range from **C1-C50** should get on the bus “**C**”. (Sign “A”, “B”, “C” will be marked on the front glass of the buses)

■ Banquet

Nov. 20th 18:00-21:00

Location: Butterfly Gourmet Court, Chimelong Hotel. (Admission ticket needed)

Contact Us

Conference Affairs Group:13826400679



Transportation

1.From the Conference Venue to Guangzhou Baiyun International Airport (about 50km)

By Airport Express(about one hour)

Take a ten-minute taxi-ride to the Aoyuan Golf Hotel Station and then take the Airport Express Line7B to the Guangzhou Baiyun International Airport.(about one hour)

***The Airport Express's frequency: every 30 minutes, Operation hours: 05:50-21:20

By Subway (about fifty minutes)

Take the Shuttle Bus of Theme Park to HanxiChanglong Subway Station and then take Subway Line3: HanxiChanglong (Towards TiYuXiLu) → TiYuXiLu 【 Exchange Line3(Towards Airport South) 】 → Airport South

***The frequency of the Shuttle Bus: every 15 minutes, Operation hours: 09:30-22:00

***Operation hours of the Subway: 06:10-23:00

By Taxi: about one hour with RMB180<reference>

2. From the Conference Venue to Guangzhou East Railway Station (about 20 km)

By Subway: Take the Shuttle Bus of Theme Park to HanxiChanglong Subway Station and then take Subway Line3: HanxiChanglong (Towards TiYuXiLu) → TiYuXiLu 【 Exchange Line3(Towards Airport South) 】 → Guangzhou East Railway Station.

By Shuttle Bus from ChimeLong Hotel to East Railway Station

Location:ChimeLong hotel Bus Station,Frequency:8:20,12:30,14:30

3. From the Conference Venue to Guangzhou South Railway Station (about 9km)

By free hotel shuttle bus,Location:ChimeLong hotel Bus Station, Frequency: every 30 minutes,Operation hours: 9:00-18:00



4. From the Conference Venue to Guangzhou Railway Station (about 25 km, 1.5h by subway)

Take the taxi or walk to the **Hanxi Changlong Station**. Then take subway Line 3 (Towards TiYuXiLu) to the **Zhujiang New Town Station** and interchange with subway Line 5 (Towards Jiaokou). Get off at the Guangzhou Railway Station.

5. From the Conference Venue to Hong Kong International Airport/Kowloon Station

By Air

Take a 10-minutes taxi-ride to the Aoyuan Golf Hotel station and then take the Airport Express Line7B to the Guangzhou Baiyun International Airport. Then take the airplane to the Hong Kong International Airport.

By Train

Take the taxi the Hanxi Changlong station. Then take Line 3 (Towards Tiyu Xilu) to Tiyu Xilu which is the interchange station where you can take Line 3 (Towards Airport South). Get off on Guangzhou East Railway Station. Take Guangzhou - Kowloon train to Kowloon Station (Hong Kong downtown). Then take the Airport Express to Hong Kong International Airport. The timetable of trains is as follows:

From Guangzhou East Railway Station to Kowloon													
	T801	T807	T813	T823	T817	T809	T825	T815	T803	T806	T819	T827	T811
Guangzhou East Railway Station	08:19	09:04	09:55	10:37	12:03	14:04	15:32	16:14	17:33	17:35	18:20	20:30	21:32
Kowloon	10:17	11:02	11:53	12:33	13:56	16:02	17:34	18:12	19:31	19:31	20:18	22:26	23:25

By Bus:

Take the Eternal East Bus (ChimeLong Hotel→Hong Kong Urban Area/H.K. International Airport

Location:ChimeLong hotel Bus Station, Frequency: 13:55, 14:35,15:50, 18:00



■ The Hotel Shuttle Bus

长隆酒店-广州东站穿梭巴士（免费专线） 08:20 12:30 14:30

Shuttle Bus from Hotel to Guangzhou East Railway Station

长隆酒店 中信广场 广州东站
Chimelong Hotel CITIC Plaza GZ East Railway Station

等候地点：酒店1号大堂 Address : Lobby #1 Main Entrance

长隆酒店-广州南站穿梭巴士（免费专线）

Shuttle Bus from Hotel to Guangzhou South Railway Station

长隆酒店 广州南站 09:00 - 18:00 约30分钟一班
Chimelong Hotel GZ South Railway Station Approximately every 30 minutes

等候地点：酒店2号大堂 Address : Lobby #2 Main Entrance

长隆酒店-深圳湾口岸/香港市区/澳门（中旅巴士专线 可到商务中心购票）

Shuttle Bus from Hotel to Shenzhen Bay Port/Hong Kong Urban Area/Macau

(Please buy the ticket at Business Center)

14:35	长隆酒店	深圳湾口岸	屯门吉之岛	荃湾港铁站	旺角维景酒店	上环信德中心	湾仔港铁站
	Chimelong Hotel	Shenzhen Bay Port	JUSCO Tuen Mun Toen Plaza	Tsuen Wan Station	Metropark Hotel Mongkok	Shun Tak Centre	Wan Chai Station
15:40	长隆酒店	深圳湾口岸	亚洲博览馆	香港国际机场			
	Chimelong Hotel	Shenzhen Bay Port	Asia World-Expo	H.K. International Airport			
17:35	长隆酒店	深圳湾口岸	屯门吉之岛	荃湾港铁站	旺角维景酒店	上环信德中心	湾仔港铁站
18:40	长隆酒店	深圳湾口岸	屯门吉之岛	荃湾港铁站	旺角维景酒店	上环信德中心	湾仔港铁站
	Chimelong Hotel	Shenzhen Bay Port	JUSCO Tuen Mun Toen Plaza	Tsuen Wan Station	Metropark Hotel Mongkok	Shun Tak Centre	Wan Chai Station
10:50	长隆酒店	香洲(国会酒店)	吉大(国会酒店)	拱北口岸	澳门	(自行过关后, 穿梭车20分钟/班) - 富豪酒店(旧葡京旁)、	
15:30	长隆酒店	香洲(国会酒店)	吉大(国会酒店)	拱北口岸	澳门	维景酒店(新口岸北京街)	
	Chimelong Hotel	Xiangzhou	Jida	Gongbei Port	Macau		



长隆酒店-深圳湾口岸/香港市区（永东巴士专线 可到商务中心购票）

Shuttle Bus from Hotel to Shenzhen Bay Port/Hong Kong Urban Area
(Please buy the ticket at Business Center)

周一至周日 (Monday-Sunday)

13:55	长隆酒店 Chimelong Hotel	- 深圳湾口岸 Shenzhen Bay Port	}	屯门	- 上环信德	- 铜锣湾
				Tuen Mun	- Sheung Wan Shun TAK Centre	Causeway Bay
18:00	长隆酒店 Chimelong Hotel	- 皇岗口岸 Huanggang Port	}	香港国际机场 H.K. International Airport		
				上水	- 沙田	- 油麻地
				Sheung Shui	- Sha Tin	- Yau Ma Tei
				香港国际机场 H.K. International Airport		

周日增加 (Sunday Extra)

15:15	长隆酒店	- 深圳湾口岸	- 葵芳	- 油麻地
19:40	Chimelong Hotel	- Shenzhen Bay Port	- Kwai Fong	- Yau Ma Tei
21:10				

请提前30分钟到礼宾部联系预订和先取票 Please reserve and get ticket at Concierge 30 minutes in advance

提前10分钟到酒店1号大堂正门候车 Please queue up for Shuttle Bus at Lobby #1 entrance 10 minutes prior to departure time

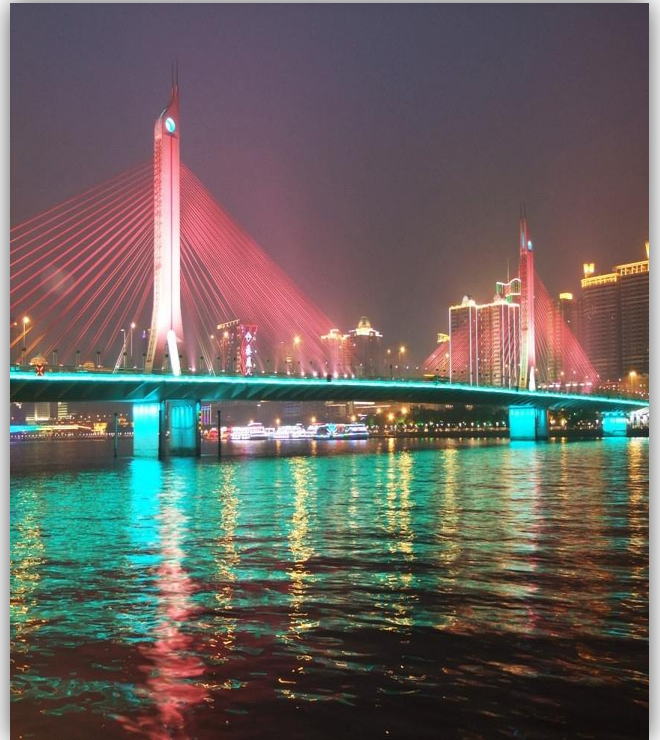
园区穿梭巴士

Shuttle Bus of Theme Park

A	1号大堂门厅	▶	香江动物园南门	▶	汉溪长隆站	09:00 - 22:00 约15分钟一班 Approximately every 15 minutes
	Lobby #1 Main Entrance		South Entrance of Safari Park		Metro Station	
B	香江动物园南门	◀▶	鳄鱼公园			09:30 - 18:00 约30分钟一班 Approximately every 30 minutes
	South Entrance of Safari Park		Guangzhou Crocodile Park			

Evening Boat Ride on the Pearl River

The Pearl River is the third longest river in China and the longest one in Guangzhou. Views along the Pearl River in Guangzhou City are spectacular. Historical sites and unique architecture scattered along the Pearl River are numerous serving as a wonderful reflection of the Cantonese culture.



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