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Part I Conference Schedule

Time: June 16 to 20, 2017

Location: Zhejiang Media Hotel (Hangzhou), China

Date	Time	Location
June 16	14:00-17:00	Registration (Lobby)
		星辰厅 Star Hall 2nd Floor
June 17	08:30-12:00	<p style="text-align: center;">Invited & Technical Session 1: Environment</p> <p style="text-align: center;">Prof. Hans-Uwe Dahms, Prof. Jie Chang, Dr. Longjian Liu,</p> <p style="text-align: center;">Chair: TBD Coffee Break: 10:00-10:20</p>
	12:00-13:30	Lunch [相约西餐厅 Western Restaurant 2 nd Floor]
	14:00-18:00	<p style="text-align: center;">Technical Session 2: Environment</p> <p style="text-align: center;">Chair: TBD Coffee Break: 15:30-15:45</p>
	18:00-19:30	Dinner [相约西餐厅 Western Restaurant 2 nd Floor]
June 18	14:00-17:00	Registration (Lobby)
		星辰厅 Star Hall 2nd Floor
June 19	08:30-12:00	<p style="text-align: center;">Invited Session 1: Psychology</p> <p style="text-align: center;">Prof. Mark E. Williams, Prof. Shuhei Yamaguchi, Prof. Rogan Slavko, Prof. YU Sau-fung, Doris, Prof. J. Harold Ellens</p> <p style="text-align: center;">Chair: TBD Coffee Break: 10:00-10:15</p>
	12:00-13:30	Lunch [相约西餐厅 Western Restaurant 2 nd Floor]
	14:00-18:00	<p style="text-align: center;">Invited 2 & Technical Session: Psychology</p> <p style="text-align: center;">Prof. Zheyu Jenny Yu, Dr. Vidya Sagar Athota, Prof. David Osher</p> <p style="text-align: center;">Chair: TBD Coffee Break: 15:30-15:45</p>
	18:00-19:30	Dinner [相约西餐厅 Western Restaurant 2 nd Floor]

Part II Invited Speeches

Invited Session 1: Environment

Invited Speech 1: Antibiotic resistance in aquatic systems: sources, sinks, and pathways

Speaker: Prof. Hans-Uwe Dahms, Kaohsiung Medical University

Time: 08:30-09:15, Saturday Morning, June 17, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou) (浙江梅地亚宾馆)



Abstract

Infectious diseases are on the rise. Over 250 million cases of gastroenteritis, respiratory diseases and more than 5 million cases of hepatitis are reported annually worldwide. Reasons for this are an ever increasing world population and the ease of travelling that enhances the risk of disease spread. An unprecedented rise of antibiotic resistance of most pathogenic microbes and viruses provides another serious health risk. We show that the aquatic environment with freshwater, brackish and seawater components provide a serious source of antibiotic resistant pathogens. Here, some pathogens even get more virulent than in their human host. This way environmental health as a branch of public health gets unexpected importance with several facets of the natural and man-made environment that affects human health. Three basic disciplines generally contribute to the area of environmental health: environmental epidemiology, toxicology, and exposure science. Information from these three disciplines can be combined to conduct a risk assessment for specific physical, chemical, or biological hazards. Such risk factors, separate or in combination, determine whether an exposure poses significant risks to human health. This can in turn be used to develop and implement environmental health policies that regulate chemical emissions, or impose standards for proper sanitation. This way environmental health management can become a tool of preventive medicine. Preventive medicine as a branch of public health attempts to prevent diseases such as infectious diseases, as opposed to disease treatment. Just as public health focusses on a variety of physical and mental states, so do disease and disability, which are affected by genetic predisposition, disease agents, lifestyle, and environmental factors. Public health provides an interdisciplinary approach to epidemiology, health services, and biostatistics, community health, behavioral health, health economics, public policy, occupational safety and environmental health. We will provide examples here from antibiotic resistance of human pathogenic bacteria that were collected from freshwaters, brackish and coastal waters. These are posing threats to food and drinking water safety of coastal populations and respective ecosystems. Green synthesis of nanostructures applied as novel antibiotics may provide a way out of the AB-resistance crisis. They can be produced at low cost and in a sustainable way.

Invited Speech 2: Increasing ecosystem services by artificial ecosystems and alleviating pressure on nature

Speaker: Prof. Jie Chang, Zhejiang University, China

Time: 09:15-10:00, Saturday Morning, June 17, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

A major challenge of managing social-ecological systems is lacking distinct functional units for operating. In social-ecological systems, instead natural ecosystems, the artificial systems provide more and more goods and services for people directly, but they receive little attention by scientists. Here, we highlight the artificial systems as the functional units of social-ecological systems and propose a paradigm that regulating various artificial systems interconnected in a network. With the paradigm we can diagnose and optimize a social-ecological system by improving artificial systems, regulating quality and spatial distribution and improve the network. The paradigm, aims at providing sufficient goods and services for human being while reduce pressure on natural ecosystems, is a complementary approach of ecosystem-based management for the sustainability of social-ecological systems. It can be used as a general tool for analyzing and managing social-ecological systems.

Invited Speech 3: TBD

Speaker: Dr. Longjian Liu, Drexel University, USA

Time: 10:15-11:00, Saturday Morning, June 17, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou) (浙江梅地亚宾馆)



Abstract

TBD

Invited Session 1: Psychology

Invited Speech 1: The Framework of a Novel Approach for the Analysis of Human Movement for Clinical Purposes

Speaker: Prof. Mark E. Williams, University of North Carolina, USA

Time: 08:30-09:15, Monday Morning, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

Recent technological advances have led to the development of small wearable microelectronic sensors (accelerometers) that detect motion, gravitational acceleration, and velocity with six degrees of freedom (forward-backward, up-down, and side-to-side plus rotational vectors). We have used these motion sensors to create new analytical tools called biokinetographs (BKGs). BKGs allow for more precise screening, diagnosing, monitoring, assessment and predicting of function of elderly people as they ambulate using sophisticated analysis of the unique electronic motion signature of each person. Remarkable visual differences in “functional walking signatures” are evident on the BKGs between fallers and non-fallers. This presentation will summarize our current efforts to translate this new technology into novel clinical and research tools for improving function, reducing injurious falls, and diagnosing orthopedic and neurological conditions for elderly people.

Invited Speech 2: Cognitive and motor functions and brain intrinsic network in aged people

Speaker: Prof. Shuhei Yamaguchi, Shimane University, Japan

Time: 09:15-10:00, Monday Morning, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)(浙江梅地亚宾馆)



Abstract

Aging is associated with deterioration in a number of cognitive functions. Many studies have demonstrated the beneficial effect of physical fitness on cognitive function, especially executive function. The graph theoretical approach models the brain as a complex network represented graphically as nodes and edges. We analyzed several measures of executive function, an index of physical fitness, and resting-state functional magnetic resonance imaging data from healthy older volunteers to elucidate the associations among executive function,

cardiorespiratory fitness, and brain network properties. The topological neural properties were related to the level of executive function and/or physical fitness. Global efficiency, which represents how well the whole brain is integrated, was positively related, whereas local efficiency, which represents how well the brain is functionally segregated, was negatively related, to the level of executive function and fitness. The associations among executive function, physical fitness and topological resting state functional network property appear related to compensation and dedifferentiation in older age. A mediation analysis showed that high-fit older adults gain higher global efficiency of the brain at the expense of lower local efficiency. These findings suggest that physical fitness may be beneficial in maintaining executive function in healthy aging by enhancing the efficiency of the global brain network.

Invited Speech 3: Physical activity in elderly population – the best drug*

Speaker: Dr. Rogan Slavko, Bern University of Applied Sciences (BUAS), Switzerland

Time: 10:10-10:55, Monday Morning, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

Physical activity can promote and maintain health as well as extend years of independent living in later life. Therefore, physical activity may be considered a highly effective drug. It is an accepted truth, that ageing is associated with the decline of physical functional capacity such as balance, cardiopulmonary endurance, flexibility, muscular strength and muscular endurance. Consequently, training programs should aim to improve or maintain physical performance level and health status. The World Health Organization and the American College of Sports Medicine have recommended guidelines on Physical Activity and Public Health.

Before prescribing exercise regimes to elderly individuals, two factors should be considered. Firstly, the human body has two types of ages: the chronological age and the biological age. The chronological age describes the age based on the calendar date. The biological age describes the current state of the physical and mental function of the individual. Since chronological age is not adequate in determining physical function level, emphasis must be placed on biological age. Secondly, elderly individuals may prefer to abstain from physical activity due various reasons including time constraints, limited interest, or they may find exercise too vigorous.

Therefore, the following aspects should be taken into account when initiating or maintaining an individual exercise program:

- 1) Assessment of current physical functional level.
- 2) Assessment of structures including muscles that cause certain conditions.
- 3) Evaluation of motivational aspects.

Due to the various forms of physical and mental functions of biological age, individuals should be classified into three categories: independent person (Go-Go), needy person with slight handicap (Slow-Go) and person in need of care with severe functional limitation (No-Go).

Program implementation breakdown is as follows: movement therapy and exercise in the No-Go group (especially elderly individuals with mobility disability) should be designed so that they be performed within a short time frame. Movement therapy and exercise regimes should include specific components of balance, strength and cognition. Slow-Go and Go-Go elderly individuals may participate in traditional training regimes, in contrast to No-Go elderly individuals who have limited physical functional capacity, among other issues.

This presentation illustrates how to classify, train and motivate the elderly individual.

Keywords: ageing, exercise, motivation

Invited Speech 4: The Chinese University of Hong Kong, Hong Kong (China)

Speaker: Prof. Doris YU, The Chinese University of Hong Kong, Hong Kong (China)

Time: 10:55-11:40, Monday Morning, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

Healthy and active aging is about enabling older adults to enjoy a fulfilling and engaging life, and to maintain active roles in the society. Maintaining an optimal cognitive function is a highly important pre-requisite to achieve this purpose. We have conducted a longitudinal study to examine how late-life activity participation, sleep quality, psychological health and disease burden affected the changes in objective cognitive function and subjective memory over 12 months among a cohort of Chinese older adults in Hong Kong. We found that late-life activity participation can counteract the detrimental effect of physical and psychological risk factors on cognitive health. Whereas participation in social and intelligent activities play a key role in maintaining the objective cognitive function, physical activities uptake is crucial to maintain the subjective memory. This presentation will provide evidence-based recommendations on how to develop innovative service to promote cognitive health in later life.

Invited Speech 5: Science, Religion, and Health: The Interface

Speaker: Prof. J. Harold Ellens, University of Michigan, USA

Time: 11:40-12:25, Monday Morning, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

The science of psychology and the study of spirituality are inherently linked.

They are two names for the function of the human psyche. They constitute two different modes of revealing the dynamics of the human spirit. Unless the scientist in each field of psychology and spirituality takes seriously the light the other science can shed upon the scholar's own discipline, the scholar is not serious about that own discipline. The two sciences intersect and illumine each other at four discreet levels: theory development, research methodology, data collection, and clinical application. Each discipline has its own domain of inquiry, its own universe of discourse, its own definitions and boundaries, its own philosophical assumptions, its own mandate, and its own field of interpretation. The two disciplines have the same object of study, the living human person. They intersect and illumine each other at the four distinct levels in the anthropology that is forming and function at that level. Within that anthropology forming and functioning at each level the two sciences illumine each other specifically in the personality theory that is developing or prevailing at that level. Psychology and spirituality need each other to fashion a full orb ed science and understanding of the world of the human psyche.

Invited Session 2: Psychology

Invited Speech 1: How to help Chinese students cope emotional difficulties while studying in US

Speaker: Prof. Zheya Jenny Yu, University of Pennsylvania, USA

Time: 14:00-14:45, Monday Afternoon, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

Objective: As the number of Chinese international students studying in the US increases, it is crucial for child and adolescent mental health professionals to become familiar with the mental health challenges this population faces, and to be equipped with specific strategies to help them.

Background: So far most studies on international students in the US focused on undergraduate and graduate students; very little is documented about middle and high school students studying here. Like college students, these younger age students face significant but developmentally more challenging stresses, including separation from their parents, adjusting to a new school and cultural environment, language barriers and learning how to advocate for themselves when living with host families. Misra et al. described how international students endure two types of stressors: the initial stressors of life stress related to cultural adjustments, language and financial problems; and the secondary stressors surrounding academic success. Yan & Berliner used Berry's stress-coping framework to illustrate Chinese international students' personal and sociocultural stressors in the United States. Difficulties in coping with these stresses can lead to academic and/or social emotional issues. Without appropriate support and help, these students may face dire consequences.

Methods:

- 1). Speaker will present the knowledge and experience by presenting specific clinical cases and sharing clinical insights.
- 2). Speaker will discuss the systems of care that might be involved in treating Chinese international students.
- 3). Speaker will highlight the unique legal, cultural and educational concerns that these international students face.

Results: Obtaining knowledge on the topic of unique mental health challenges of Chinese international students will help mental health professionals building culturally competent clinical practices. This, in turn, will improve the care and outcome of Chinese international students with potential emotional/behavioral/academic difficulties.

Conclusion: Given the ever-expanding diversity and needs of 21st century children in the United States, child and adolescent mental health professionals will greatly benefit from expertise and knowledge concerning their clinical experiences on this topic, where research and resource have been limited.

Invited Speech 2: Eudaimonia: Wellbeing and innovation in knowledge intensive contexts

Speaker: Dr. Vidya Sagar Athota, The University of Notre Dame Australia, Australia

Time: 14:45-15:30, Monday Afternoon, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou)
(浙江梅地亚宾馆)



Abstract

With an increasing incidence of globalization of work, there is emerging evidence also of work intensification, not just for blue-collared workers but also knowledge workers. Increased workload may have an adverse impact on an individual's subjective well-being outcomes. The concept of subjective wellbeing has become a subject of great interest for economists, sociologists, psychologists, management scholars and policy makers in order to improve quality of life. The existing empirical research evidence suggests that individual wellbeing plays a pivotal role in establishing ground for a resilient spirit. Despite conceptual overlap, there is no existing research on how wellbeing and resilience influences creativity and consequently innovation outcomes among knowledge workers in an increasingly globalized dispersion of work. The aim of the proposed presentation is to shed light on the association between wellbeing and human capital, and how effectively wellbeing contributes to resilience and innovation in organizations.

Invited Speech 3: Schools play a key role in fostering well-being and resilience

Speaker: Prof. David Osher, American Institutes for Research, USA

Time: 15:30-16:15, Monday Afternoon, June 19, 2017

Location: Star Hall (星辰厅), 2nd Floor, Zhejiang Media Hotel (Hangzhou) (浙江梅地亚宾馆)



Abstract

Schools play a key role in fostering well-being and resilience. This, in turn, affects academic achievement. Although the school's role is important for all students, it is particularly important for students who have experienced adversity, particularly trauma, which may compromise the capacity of the student to develop healthy relationships and manage emotions and behavior. The school's role particularly important for students who struggle with disability, discrimination, cultural marginalization, and community risk factors. Schools can buffer risk as well as support the development of positive psychological attributes. However, schools may also function as an added risk factor, creating or exacerbating problems in youth development as well as in learning. This talk will draw upon research done on 5 continents that shows how schools can become safe, supportive, and academically successful settings.

Part III Technical Sessions

Invited & Technical Session 1 : Environment

Session Chair: TBD

Star Hall (星辰厅), 2nd Floor

14:00-18:00, Saturday Afternoon, June 17, 2017

No.	Paper Title	Author	Affiliation
Invited	Antibiotic resistance in aquatic systems: sources, sinks, and pathways	Prof. Hans-Uwe Dahms	Kaohsiung Medical University
Invited	Increasing ecosystem services by artificial ecosystems and alleviating pressure on nature	Prof. Jie Chang	Zhejiang University, China
Invited	TBD	Dr. Longjian Liu	Drexel University, USA
1-1	A Method to Determine the Margins of High Sea Ice Concentration Using AMSR-E passive microwave imagery	Shugang Zhang	Shandong Academy of Sciences
1-2	Research of Hydrochemical properties of Hyporheic zone along the WeiHe River in Shanxi segment	Nan Zhang	Yellow River Institute of Hydraulic Research
1-3	Rainfall and vertical velocity characteristics from drop size and fall velocity spectra observed by Parsivel disdrometers	DONG KYUN KIM	Pukyong National University
1-4	Speciation and Mobility of Phosphate in the Eutrophic Ponds at Prospect Park, Brooklyn, New York	Ying Liu	Brooklyn College of City U of New York

Technical Session 2 : Environment

Session Chair: TBD

Star Hall (星辰厅), 2nd Floor

14:00-18:00, Saturday Afternoon, June 17, 2017

No.	Paper Title	Author	Affiliation
Invited	A threatened ocean – curriculum development related to marine pollution	Prof. Hans-Uwe Dahms	Kaohsiung Medical University

2-1	Effective Inhibiting Effect on Nitrogen Leaching in a Field Wood-chip Bioretention System	Zhexi Wan	Tongji University
2-2	Genotoxic potency ranking of particulate matter from biomass, coal and diesel fuel combustion	Richard Gminski	Institute of Environmental Health Sciences
2-3	GIS-based Analysis of Groundwater Quality in Saipan, CNMI, USA	Yuming Wen	University of Guam
2-4	Sustainable use of piggery waste in Micronesia with a focus on energy production	Joseph Rouse	University of Guam
2-5	Health Impacts of Occupational Exposure on Workers Exposed to Petroleum Wastes	Malik Hayat	COMSATS University, Pakistan
2-6	Adsorption of Sulfamethoxazole on Nanoporous Carbon Derived from Metal-Organic Frameworks	yuxin Li	Dalian University of Technology
2-7	Fe-MOF derived Ferrous Hierarchically Porous Carbon used as EF Cathode for PFOA Degradation	Xiaoyu Liu	Dalian University of Technology
2-8	Fabrication and Photoelectrochemical Performance of Si Nanowire Photoelectrode Structured with Quantum Size Surface	Shiyi Yu	Dalian University of Technology, China
2-9	Study of Performance of Modified Oyster Shell for Phosphorus Removal	Huan Wang	Dalian University of Technology

Invited Session 2 & Technical Session: Psychology

Session Chair: TBD

Star Hall (星辰厅), 2nd Floor

14:00-18:00, Monday Afternoon, June 19, 2017

No.	Paper Title	Author	Affiliation
Invited	How to help Chinese students cope emotional difficulties while studying in US	Prof. Zheyu Jenny Yu	University of Pennsylvania
Invited	Eudaimonia: Wellbeing and innovation in knowledge intensive contexts	Dr Vidya Sagar Athota	The University of Notre Dame Australia

Invited	Schools play a key role in fostering well-being and resilience	Prof. David Osher	American Institutes for Research
16:15-16:30	Coffee Break		
16:30-16:45	Positive Well-being and Work–life Balance among UK Railway Staff	Jialin Fan	Cardiff University, Cardiff, United Kingdom
16:45-17:00	A Novel Noninvasive Approach to Measuring Function and Fall Risk in Elderly People Using Wearable Sensor Technology	John Williams	UNC Wilmington
17:00-17:15	Research on the relationship among phone addiction, social anxiety and loneliness in high school students	Junlan Xu	the Sechond High School Attached to Beijing Normal University
17:15-17:30	The effect of study abroad experience on self-efficacy and private college stigma:socialisation degree as a moderator	Wei ling cai	Yango College
17:30-17:45	HOW THE DISABILITY WOMEN LIVE?: a study socio-psychology	Grace Mun Man Shum	University of Huelva

Part V Instructions for Presentations

Oral Presentation

Devices Provided by the Conference Organizing Committee:

- Laptops (with MS-office & Adobe Reader)
- Projectors & Screen
- Laser Sticks

Materials Provided by the Presenters:

- PowerPoint or PDF files

Duration for each Presentation:

- Regular Oral Session: 10-15 Minutes for each Presentation(5 minutes for Q&A)
- Invited Speech: 40-45 Minutes (5 minutes for Q&A)

Part VI Hotel Information

About Hotel

Zhejiang Media Hotel (Hangzhou) (浙江梅地亚宾馆) is an international four star standard hotel in Hangzhou. The hotel stands in the downtown business district in Hangzhou, 200 meters away from the famous West Lake. It is 13km from the airport and 3km from the railway station. The Media hotel is a 4 star facilities hotel with 200 rooms including standard double rooms, business rooms and suites, all equipped with a full range of facilities- IDD, DDD, color TV (with in room movies and some Satellite channel access) and central air-conditioning.

Address: 18, Changsheng Road (No. 203 Qingchun Lu), Hangzhou
杭州市上城区长生路 18 号

URL: <http://www.zjmediahotel.com/about5.html>

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Transportation

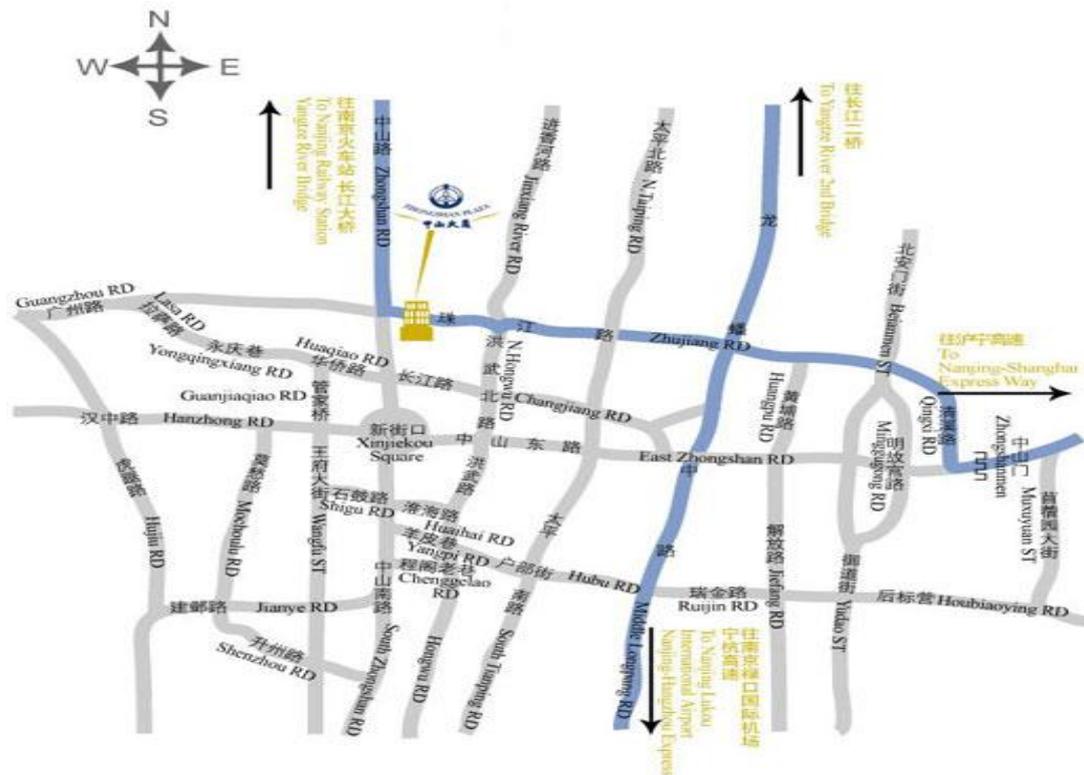
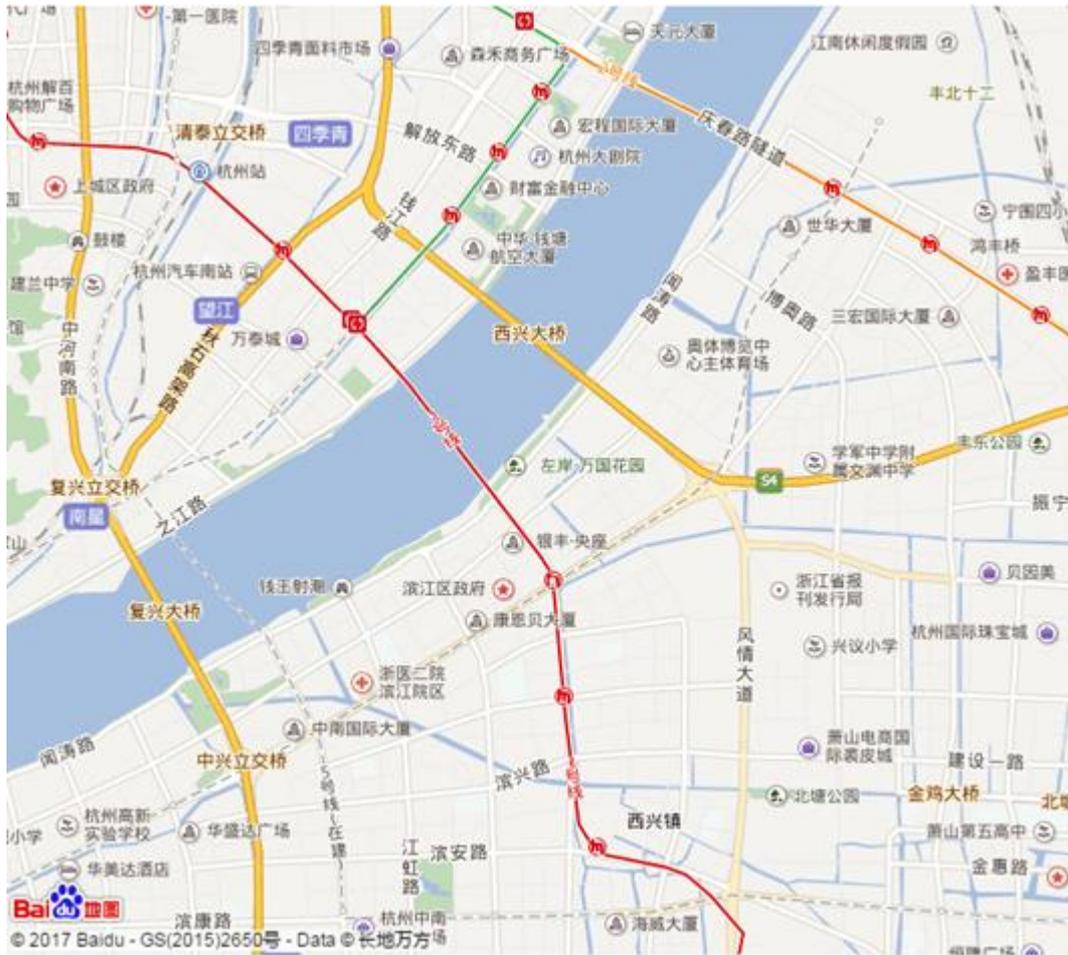
Direct Bus Line: No. 4, No. 230, No. 287, No. 290, No. 155

Direct Subway Line: Line No. 1 at Longxiangqiao Station

Hangzhou International Airport: Driving distance of 28.7 km (about 54 minutes)

Hangzhou Railway Station: Driving distance of 3.4 km (about 10 minutes)

Hangzhou East Railway Station: Driving distance of 7.9 km (about 25 minutes)



Contact Us

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