Seminar for Software Teachers

Name	Seminar for Software Teachers		
Organizer	Zhejiang Normal University		
Time	2023-07-13 -- 2023-07-26	Language for Learning	English
Invited Countries			
Number of Participants	25		
Requirements for the Participants	Age	Under 45 for officials at or under director's level; under 50 for officials at director general's level.	
	Health	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without metal diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant.	
	Language	Capable of listening, speaking, reading and writing in English during the training	
	others	Family members or friends shall not follow	
Host City	Jinhua Zhejiang	Local Temperature	Summer, about 27-35℃
Cities to visit	Hangzhou City	Local Temperature	Summer, about 27-35℃
Notes	1. Please prepare research materials related to the seminar topic for exchange and discussion. 2. Please wear formal attire, traditional attire, or leadership uniforms to attend formal events. Please also prepare comfortable shoes and sportswear for participating in sports courses or using campus sports facilities. 3. Please bring commonly used medications to prevent and treat malaria, colds, etc. 4. Computers are not provided in the hotel. If needed, please bring your own. 5. In principle, participants are not allowed to change their flights to and from China. If there is a need, please contact the commercial office to follow the procedure for changing tickets. If there are special circumstances that prevent you from departing on time or cause flight delays during transfer, please contact the commercial office or the program team in a timely manner to inform them of the latest flight information so that they can arrange for airport pick-up. 6. Please confirm whether you need to re-check your luggage when transferring. After landing and retrieving your luggage, please wait patiently at the international or domestic arrival exit, where the program team holding a pick-up sign with "Zhejiang Normal University" written on it will meet you. If you have been waiting for more than 15 minutes, you can contact the project contact persons by phone.		
Contact of the Organizer	Contact Person(s)	Ms.LU Sarah, Ms.sun fengyou, Mr.Li mín shuò	

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About the Organizer	Zhejiang Normal University (ZJNU), established in 1956, is a key provincial university known for its teacher education. Over the past 67 years, ZJNU has nurtured more than 300,000 talents including 210,000 in the educational field. It is thus acclaimed as the "cradle for basic education teachers in Zhejiang Province". ZJNU upholds the value of educational internationalization and has established partnerships with more than 280 foreign educational institutions situated in over 60 countries and regions spanning 5 continents. It has collaborated on study abroad and exchange programs with more than 70 foreign universities, and it has welcomed over 3,000 international students participating in short-term, long-term, and CSC scholarship programs.	
	Over the past decades, ZJNU plays an active role in international exchanges and cooperation by taking full advantage of its strength. It serves as the "Base for Educational Aid and Development" approved by the Ministry of Education, the "China Aid Training Center for Primary and Secondary Education" approved by the Ministry of Commerce, and the "China-ASEAN Education and Training Center" approved by the Ministry of Foreign Affairs and the Ministry of Education. Up to the present, ZJNU has held 215 foreign aid training programs, including 8 academic degree programs with 166 participants, 206 short-term foreign aid training programs with 5,231 participants, and 1 remote recording and broadcasting program with about 200 participants. ZJNU has trained participants from 112 countries, regions, and international organizations, including outstanding alumni such as Faustin-Archange Touadéra, the sitting president of the Central African Republic. ZJNU strives to maintain good relations with alumni.	
Seminar Content	This seminar adopts a combination of lectures, exchange and discussion, cultural experience, and economic and cultural visits. Experts and scholars in the fields of vocational education in software and software technology will be invited to present. The program covers various topics, including China's national conditions, development and knowledge system structure of software engineering, security and challenges in software development, etc.	
	1. Lecture Content	
	(1) Overview of China: introducing China's history, geography, society, economy, culture, China's political system & foreign policy, mainstream Chinese societal values and public morality, etc.; to give participants a general understanding of China and a theoretical framework for further learning and exchange.	
	(2) Common Prosperity: Common prosperity is not only the essential requirement of socialism with Chinese characteristics, but also a distinctive feature of China's modernization, and more importantly, a shared aspiration of the Chinese people. This lecture examines a village relocation initiative in Wuyi County, which is a prime example of poverty reduction efforts and the prevalent human-centric philosophy in China.	
	(3) Development and Knowledge Architecture of Software Engineering: The lecture introduces the origin and development of software engineering, and explains the knowledge architecture of software engineering. It covers key areas such as requirements analysis, software design, software testing, project management, etc. Additionally, it discusses the critical skills required for the cultivation of software engineering talent.	
	(4) Security and Challenges in Software Development: Security and challenges in software development are hot topics in the field of software engineering today. With the advancement of technologies such as artificial intelligence, the Internet of Things, and cloud computing, software development faces new challenges and risks, and security issues are increasingly prominent. This lecture analyzes and explores various security hazards and vulnerabilities in	

software development, and provides suggestions for addressing such challenges through case studies. It will be a valuable resource for software teachers, helping them to cultivate students' software security awareness and skills, thereby improving the security and quality of software development.

(5) Emerging Technologies and Algorithm Design – Introducing Innovative Thinking into Vocational Education for Software Technology Majors: Algorithms play a crucial role in the fields of computer science and software development. This lecture will start with a discussion of design concepts and algorithm frameworks, followed by an exploration of typical algorithms and emerging technologies. Using multiple algorithm strategies for a given problem, a comparative analysis of the design characteristics, advantages, and disadvantages of each strategy will be presented, thereby enhancing the efficiency of algorithm design.

(6) Developing Data Thinking and Management Skills for Software Talent: With the rapid integration and development of big data and artificial intelligence technologies in the software industry, it is essential to cultivate software talent's data thinking, data management skills, and application capabilities. This lecture will delve into the practical application scenarios of relational databases and big data, as well as the utilization of artificial intelligence technology. Through analyzing the similarities, differences, and interconnections between these topics, attendees will gain a comprehensive understanding of their key application modes in the software industry. Furthermore, the lecture will provide invaluable insight into the essential skills that software professionals must develop in order to excel in data management and application.

(7) Development of Information Technology and Software Talent Cultivation in China: The rapid growth of new IT industries such as artificial intelligence, the Internet of Things, big data, and cloud computing has resulted in an increased demand for high-quality software talent in China. As a developing country, it is crucial for China to prioritize the cultivation of software talent. This lecture will examine the national conditions and current state of software development in China. Furthermore, this lecture will explore how Zhejiang Normal University's software engineering major is contributing to the cultivation of software talent.

(8) Cultivating proactive, strategic, and highly self-regulated learners (Research on self-regulation for learning, reflections, and curriculum practices): This lecture introduces the theory and current research on self-regulation for learning, and provides recommendations for implementing SRL in practice. This lecture also discusses the promotion of SRL in vocational software technology education.

(9) Challenges and Changes in Vocational Education Teaching in the Era of Big Data: This lecture first introduces the basic characteristics of big data and educational big data, and discusses the main technologies for processing big data. With a focus on the education field, it introduces the application and challenges of big data: 1) the application of big data in the classroom, including monitoring and learning warnings; 2) the application of big data in students' daily lives, including understanding their thoughts, learning interests, and lifestyle habits; and 3) the challenges of big data in the education field.

(10) "Internet+" Innovation and Entrepreneurship Competition Promoting HEI's Innovation and Entrepreneurship Education: China College Students' "Internet+" Innovation and Entrepreneurship Competition is jointly hosted by MOE, local governments and HEIs, which aims to deepen the comprehensive reform of higher education, to stimulate the creativity of college students, to prepare a force of "mass entrepreneurship and innovation", to transform the competition results, to develop "Internet+" emerging industries, to improve the efficiency and efficacy of service economy, to encourage innovation-driven entrepreneurship and entrepreneurship-driven employment, and to promote quality entrepreneurship and employment for college graduates. The lecture will be delivered by the "Internet+" competition gold medal instructor of ZJNU, who will share the facts and successful practices related to the competition.

(11) Cultural experience: Tai Chi is a martial art originating from China that focuses on cultivating both internal and external strength, harmonizing firmness with flexibility. By practicing its movements and techniques, participants can gain an understanding and appreciation of Tai Chi as well as the broader Chinese cultural context.

2. Lecturer Profile

(1) Peng Hao: Ph.D. in Engineering at Shanghai Jiaotong University, Professor, Vice Dean of the School of Computer Science and Technology at Zhejiang Normal University, executive committee member of China Computer Federation (Hangzhou), Vice Chair of CCF YOCSEF

(Hangzhou), Secretary General of Zhejiang Computer Education Committee, Deputy Secretary General of Zhejiang Computer Society, and committee member of Zhejiang Computer Application and Education Society. Research achievements: 80+ research publications, 2 national foundation projects, 9 provincial-ministerial projects, and other 14 scientific research projects.

(2) Li Xiaobo: Ph.D., Professor, Ph.D. Supervisor, "Shuang Long Scholar" Distinguished Professor, member of the Bioinformatics Committee of the China Computer Federation, the Bioinformatics and Artificial Life Committee of the Chinese Association for Artificial Intelligence, and the Computational Biology and Bioinformatics Committee of the Chinese Society of Biotechnology. Academic achievements: Prof. Li has presided over and completed several projects of the National Foundation of China. Prof. Li has more than 50 academic publications and is the winner of 5 awards at the ministerial/provincial level.

(3) Wu Jianbin: Associate Professor, Master's Supervisor, and Director of the Software Engineering Department. Research interests: formal methods in software engineering, knowledge graphs, and blockchain technology. In recent years, he has guided students to win multiple national awards in competitions such as the Internet+ Competition, Software Service Outsourcing Competition, and E-commerce Competition (including gold, silver, and bronze awards).

(4) Wang Hui: Ph.D. in Engineering at Shanghai Jiaotong University, Associate Professor, Master's Supervisor, Director of the Computer Science Department of the School of Computer Science and Technology of Zhejiang Normal University. Research interests: industrial Internet of Things, Internet of Things and wireless sensor networks, etc. Prof. Wang has published more than 10 papers in internationally recognized journals and conferences over recent 3 years.

(5) He Xiaowei: Professor of the Department of Computer Science at Zhejiang Normal University, Master's Supervisor. Main research interests: image and video processing; blockchain technology and application; machine learning. He has presided over several national and provincial projects, including the National Natural Science Foundation of China - Research on some key problems of low-rank factorization in the information field, and has published more than 40 papers in SCI, EI journals, and academic conferences.

(6) Ding Zhiguo: Ph.D., Associate Professor, visiting scholar at the Massachusetts Institute of Technology. Director of the International Exchange and Cooperation Center of the School of Computer Science and Technology of Zhejiang Normal University. Research interests: software system quality assurance and testing, system anomaly detection and prediction. Has published over 10 papers in recognized journals such as Reliability Engineering & System Safety.

(7) Chen Xin: Ph.D. in Computer Science, Associate Professor, Master's Supervisor. Vice Director of the Computer Science Department of the School of Computer Science and Technology at Zhejiang Normal University. Prof. Chen delivered a quality offline course – Intelligent Mobile APP Development. Achievements: winner of the second prize of the 2020 Teaching Innovation Competition of ZJNU, coaching the student team to win the second prize in the nationwide software service outsourcing competition, winning the bronze medal in the Zhejiang "Internet+" Innovation and Entrepreneurship Competition.

(8) Hu Zhaolong: Associate Professor of the School of Computer Science and Technology of Zhejiang Normal University, Ph.D. and Master's Supervisor of Beijing Normal University. Research interests: complex networks, data mining, and blockchain. In 2021, he guided the Jinhua Branch of the State Grid Corporation of China and won the first prize in the Zhejiang Provincial Data Mining Competition.

(9) Xu Lihua: Professor, Ph.D. Supervisor, former Director of International Office, Office of Chinese Language Council International & Office of Hong Kong, Macao and Taiwan Affairs, Zhejiang Normal University. Research interests: international Chinese education, second-language acquisition, Chinese language promotion in Africa, and language policy and planning in Africa. Prof. Xu has presided over 8 research projects under the National Social Science Fund of China and other funds. Prof. Xu has published several academic papers in journals such as Language Teaching and Linguistic Studies. Prof. Xu is the editor-in-chief of 9 textbooks and monographs, such as Confucius Institutes in Africa: Retrospect and Prospect.

(10) Xuan Bingshan: Ph.D. in Historical Geography, Associate Professor, Master's Supervisor, Vice Director of Department of TCSOL at Zhejiang Normal University. Research achievements: publications in recognized journals, including Agricultural History of China. Research interests: folklore studies, Chinese culture, intangible cultural heritage, promotion of

	Chinese culture, etc. During this seminar, there will be arranged visits to various locations, including Hangzhou, where participants can learn about China's software vocational education and achievements in software technology. Through visits to vibrant cities, the participants will be immersed in the diverse and rich culture of China and gain first-hand experience with China's socioeconomic, educational, and cultural progress since the Reform and Opening-up. The seminar aims to strengthen cooperation and exchanges between China and other developing countries.