



上海交通大学
SHANGHAI JIAO TONG UNIVERSITY

2017 夏季学期研究生课程手册

Summer Semester Courses Introduction 2017



上海交通大学研究生院

二零一七年三月

2017 夏季学期研究生课程目录

开课院系	课程名称(中)	Course Title
机械 与动力工程学院	随机动态优化	Stochastic Dynamic Optimization
	随机服务系统的微观建模	Micro-Scopic Modeling Stochastic Service Systems
	泛在机器人技术	Ubiquitous Robotics
	新能源汽车能量管理技术前沿	Power Management Technology Frontier for New Energy Vehicle
电子信息 与电气工程学院	科学思想的表达——以具身化智能研究为实例	Presenting scientific ideas – case studies from embodied intelligence
	高级研究写作	Advanced research writing
	大数据时代的工程创新与运营分析	Engineering Innovation\Design & Operations Analysis in Big Data Age
	深度学习前沿与实践	Syllabus and Application of Deep Learning
	电力系统运行高级优化	Advanced Optimization of Power System Operation
	能源互联网的协调控制	Coordination control of energy internet
材料科学 与工程学院	Sigma-Delta 模数转换器设计进阶	High Performance Sigma-Delta Analog to Digital Converter Design
	透射电子显微镜的应用技术	Techniques and Applications of Transmission Electron Microscopy
化学化工学院	晶体中的缺陷行为及其力学机制	Mechanisms and Mechanics of Imperfections in Crystals
	高分子物理：从基础理论到最新的研究进展	Polymer physics: from theoretical fundamentals to latest progress in studies
	表面工程技术 及其在产品观感设计中的应用	Surface Engineering for Look and Feel
生命科学 技术学院	物理有机化学	Physical Organic Chemistry
生命科学 技术学院	幸福人生	Happy and Life
国际 与公共事务学院	方法论研究：文献综述与理论构建	Research Method: Literature Review & Theory Building
安泰经济 与管理学院	技术商业化的理论与实践	The Theory and Practice of Technology Commercialization
凯原法学院	资本市场犯罪法律与经济分析	A Legal&Economic Analysis of Capital Maket Crime
	中国法治理论与实践前沿精讲	The rule of law theory and practice
	律师国际业务模块化前沿精讲	Practical Skills for International Lawyering
	现代日本的合同法	Contract Law of Modern Japan
科学史与 科学文化研究院	中国的现代化：现代性叙事中的交通问题	Modernizing China: Mobility in the Discourse of Modernity
外国语学院	英语学术交流口语	Spoken English for Academic Purposes
极地 与深海发展 战略研究中心	海洋法理论与实践研修班	Theory and practice of marine law workshop
药学院	协同创新与研究伦理养成	How to Develop The Consciousness of Team And Innovation
	中医药与中国文化	Traditional Chinese Medicine and Culture

随机动态最优化

Stochastic Dynamic Optimization

课程基本信息 Course Information					
课程代码 Course Code	ME26041	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	随机动态最优化 Stochastic Dynamic Optimization				
授课语言 Language of Instruction	英文				
开课院系 School	机械与动力工程学院				
先修课程 Prerequisite	基于微积分与线性代数的概率论与数理统计方面知识；运筹学或最优化理论基础知识与方法，如线性规划、动态规划、排队论等。				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	耿娜	副教授	上海交通大学机械与动力工程学院工业工程与管理系	gengna@sjtu.edu.cn	
	陈新	终身教授	伊利诺斯大学香槟分校工业及企业系统工程系	xinchen@illinois.edu	
课程简介 Description	<p>序贯决策问题是求多阶段最优动态决策的问题，它广泛存在于各种生产制造流程和服务运营过程，而带不确定性因素的序贯决策问题更是当前众多研究领域问题的重点难点。因此，对于广大研究生，尤其是研究领域与运营或控制相关的研究生，掌握相关的理论知识和求解技术是必不可少的。</p> <p>通过本课程的学习，学生首先能学到带有不确定性的序贯决策的基本模型框架，然后在此基础上能够对相关理论和求解方法有更深入的理解，最后通过课程的训练达到运用课程知识解决自己的研究问题的水平。</p> <p>本课程由伊利诺斯大学香槟分校工业及企业系统工程系陈新教授担讲，陈新教授本科与硕士专业是计算数学，博士阶段专攻运筹学，之后在运筹学相关领域进行多年研究并且成果卓著。陈教授深厚的数学功底及其运筹学相关的研究背景正是本课程一大特色。由于课程内容与陈教授多年研究内容高度相关，因此，国内及世界一流大学同类课程相比，在教学内容上，陈教授加入了许多自己最新研究的成果，不仅能够现场进行细致的证明推导，还能将理论知识与实际科研工作联系起来，而非照本宣科、点到即止。而在教学方式上，学生在课堂上可以自由提问，陈教授往往能够马上举出自己研究过程中遇到的案例进行点拨。因而这大大提高了学生对课程内容的理解，学生在课堂互动中也能迅速培养研究能力。</p> <p>Sequential decision problem is a multi-stage dynamic optimization problem which lies in all kinds of manufacturing processes and service operation processes. Nowadays, sequential decision problem considering uncertain factors is more and more popular in various research areas and hence mastering correlated theories and techniques would be a must for graduate students focusing on areas of operations or control.</p> <p>The course covers the basic modeling and solution techniques for sequential decision making problems under uncertainty including dynamic programming and stochastic programming modeling, theory, algorithms and approximations. Applications are drawn from economics, finance, operations management and engineering.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	动态规划——基础知识	3	课堂授课	陈新
	动态规划——结构化策略	3	课堂授课	陈新
	动态规划——无限时域模型	3	课堂授课	陈新
	随机规划——建模基础与性质	3	课堂授课	陈新
	随机规划——求解方法	4	课堂授课	陈新
	考核方式 Grading	作业 30%； 大作业 35%； 大作业展示 15%； 课堂参与 20%		
教材/参考资 料 Textbooks & Other Materials	1. D. Bertsekas, Dynamic Programming and Optimal Control, Athena Scientific, 2005 (3rd edition). 2. J. Birge and F. Louveaux. Introduction to Stochastic Programming. New York: Springer, 2011 (second edition). (ebook downloadable from the library) 3. W. Powell. Approximate Dynamic Programming. Wiley, 2011. (ebook downloadable from the library)			

任课教师介绍

姓名：陈 新

职称：终身教授

单位：伊利诺斯大学香槟分校工业及企业系统工程系

电子邮箱：xinchen@illinois.edu



教育背景

- 2003-2004 运筹学博士后，美国麻省理工学院
- 1999-2003 运筹学博士，美国麻省理工学院
- 1998-1999 数学专业，美国华盛顿大学，西雅图
- 1995-1998 计算数学硕士，中国科学院
- 1991-1995 计算数学学士，湘潭大学

研究方向

- Synthesis of well-defined polymer structures
- 随机建模优化
- 供应链管理
- 动态决策分析

随机服务系统的微观建模

Micro-Scopic Modeling Stochastic Service Systems

课程基本信息 Course Information					
课程代码 Course Code	ME26042	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	随机服务系统的微观建模 Micro-Scopic Modeling Stochastic Service Systems				
授课语言 Language of Instruction	中文				
开课院系 School	机械与动力工程学院 工业工程与管理系				
先修课程 Prerequisite	排队论、马尔科夫过程等				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	耿娜	副教授	上海交通大学	gengna@sjtu.edu.cn	
	Zhe George Zhang	教授	美国西华盛顿大学、 加拿大西蒙费沙大学	gzhang@sfu.ca	
课程简介 Description	<p>随机服务系统建模理论是运筹学的重要分支，主要研究和探讨客观世界中随机演变过程的规律性，是处理复杂随机现象的有力工具，对于运筹与管理、信息与控制、能动与机电类专业而言，是研究生学好专业课程、深入从事科学研究必不可少的有力工具。</p> <p>本课程首先回顾离散马尔科夫链、连续马尔科夫链和更新过程等基础随机过程理论知识，然后介绍随机游走和布朗运动、排队系统分析技术及其原理、以及服务系统的排队网络理论等内容。通过教学，使学生掌握一些微观层面的概率建模和分析方法，加深对随机服务系统建模的认识，建立从微观层面分析和研究随机服务系统的理论框架和方法。这是对目前研究生培养方案中部分课程的一个重要补充，也是对随机服务系统建模方法前沿研究的介绍，为巩固学生的理论基础、拓宽视野、加强理论深度有重要作用。</p> <p>本课程的授课老师——Zhe George Zhang 教授是国际上知名的随机服务系统研究领域的专家，他拥有深厚的理论功底，活跃于本领域的研究前沿，在国外长期担任本课程的研究生教学任务，拥有丰富的教学经验。他在讲授过程中会将自己的研究内容融入课程中，不仅可以帮助学生更好地理解课堂上所介绍的理论方法，还可以帮助同学如何把所学的理论方法应用于实际的研究问题。</p>				
	<p>The theory of stochastic service system modeling is an important branch of operational research. It mainly studies and explores the regularity of stochastic evolution in the objective world. It is a powerful tool to deal with the complex random phenomena. For the student from the department of operation management, automatic control, energy and power, and electromechanical, this course is extremely benefit for learning professional courses and doing in-depth scientific research.</p> <p>This course first reviews the basic knowledge of stochastic process theory, such as discrete Markov chain, continuous Markov chain, and renewal process, and then introduces random walk and Brownian motion, queuing system analysis technique and its principle, and the queuing network theory of service system. Through the course, students could learn the micro-level probability modeling and analysis</p>				

	<p>methods to deepen the understanding of the modeling of random service system. What's more, this course could help them establish the research framework and learn the methods of micro-level analysis of stochastic service system. It is an important supplement to some courses in current graduate education program. This course also introduces the forward research in the modeling approaches of the stochastic service system, which plays an important role in consolidating the theoretical basis, broadening the horizons and strengthening the theoretical depth for the students.</p> <p>Professor Zhe George Zhang is an expert in the research field of random service system. He has a strong theoretical foundation and is well-known researcher in this field. He has a rich teaching experience of this course for the graduate student. He will integrate his research in the teach process, not only can help students to better understand the theoretical methods, but also can help them learn how to apply the methods to solve the actual problem.</p>			
课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	一、基础随机过程 1.1 离散马尔科夫链；1.2 连续马尔科夫链；1.3 更新过程；1.4 一些应用。	4	课堂授课	Zhe George Zhang
	二、随机游走和布朗运动 2.1 一维随机游走和布朗运动；2.2 布朗运动的变化；2.3 高斯过程；2.4 一些应用（如击中次数、最大变量和赌徒破产问题等）。	4	课堂授课	Zhe George Zhang
	三、排队系统分析方法 3.1 排队系统概述；3.2 指数分布的排队系统分析；3.3 一般分布的排队系统分析。	4	课堂授课	Zhe George Zhang
	四、服务系统的排队网络分析 4.1 排队网络系统概述；4.2 开放排队网络系统分析；4.3 封闭排队网络系统分析；4.4 一些应用。	4	课堂授课	Zhe George Zhang
考核方式 Grading	1.作业 30%；2.考试 60%；3.平时表现 10%。			
教材或参考资料 Textbooks & Other Materials	<p>S.M. Ross, Introduction to Probability Models, 9th ed., Academic, 2007. Q. He, Fundamentals of Matrix-Analytic Methods, Springer 2014.</p>			

任课教师介绍

姓名: Zhe George Zhang

职称: Professor

单位: Department of Decision Sciences, College of Business and Economics, Western Washington University, Washington, USA (Adjunct professor in Management Science at Simon Fraser University, British Columbia, Canada)

Email: gzhang@sfu.ca

Education

- Ph.D. in Operations Research, University of Waterloo, Canada (1993).
- M.B.A. in Operations Management, Schulich School of Business, York University, Canada (1988).
- M.A.S. in Economic Systems, Nankai University, China (1986).
- B.Sc. in Computer Sciences, Nankai University, China (1984).

Research Focus

- Queueing theory and applications
- Stochastic dynamic programming
- Probability models in reliability
- Supply chain management

新能源汽车能量管理技术前沿

Power Management Technology Frontier for New Energy Vehicle

课程基本信息 Course Information					
课程代码 Course Code	ME26043	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	新能源汽车能量管理技术前沿 Power Management Technology Frontier for New Energy Vehicle				
授课语言 Language of Instruction	中文/英文				
开课院系 School	机械与动力工程学院				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	张希	副研究员, 博导	机动学院	braver1980@sjtu.edu.cn	
课程简介 Description	<p>本课程将瞄准新能源汽车能量管理技术前沿, 从新能源汽车动力总成系统介绍、能量管理技术实现目标和基本概念, 到小波、动态规划等目前国际上采用的汽车能量管理相关的最新控制和优化方法简介, 最后描述在石墨烯电池等新型动力源可能使用的背景下新能源汽车能量管理技术的前景展望, 使研究生对于新能源汽车能量管理目标、概念、建模、控制优化等有较为清晰的认识和理解。本课程采用授课教师本人所写专著(国内出版社已翻译为中文), 教学内容除基本概念方法外, 还将紧密结合授课教师主持参与实际研究课题在能量管理技术方面的研究积累, 并辅以国际学者的最新研究成果, 由浅入深地讲述新能源汽车能量管理技术。本课程教学方式将融合多种模式, 促进授课教师和学生间的课堂互动性和学生的学习热情, 更好地提升教学质量和效率。</p> <p>Aiming at the new energy vehicle (NEV) power management technology frontier, this course study includes the introduction to NEV powertrain, power management objectives and basic concepts, the up-to-date power management-related control and optimization methodologies (e.g., wavelets, dynamic programming, etc.), and NEV power management prospective analysis under the background of possible employment of new power sources, e.g., Graphene cells. The graduate students could have a good recognition and understanding of objectives, concepts, modeling, control and optimization for NEV power management. This course uses the monograph (already translated by some Chinese press) written by the teacher himself. Besides of basic concepts and approaches, the teaching contents integrate the research accumulation derived from realistic power management related research projects with the teacher involved as well as the latest research results by the international scholars, so the NEV power technology will be taught from the elementary to the profound. Multiple teaching modes will be taken into account, which is beneficial for teacher-student interaction and students' study enthusiasm such that the teaching quality and efficiency could be enhanced.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	1. 新能源汽车发展概述及整车技术	2	课堂	张希
	2. 新能源汽车关键零部件介绍	2	课堂	张希
	3. 新能源汽车能量管理技术概述	2	课堂	张希
	4. 基于动态规划的新能源汽车能量管理方法	3	课堂	张希
	5. 基于小波理论的新能源汽车能量管理方法	3	课堂	张希
	6. 基于硬件在环（HIL）的新能源汽车能量管理方法的实现	2	课堂	张希
	7. 新能源汽车能量管理系统的最新技术动态及前景展望	2	课堂	张希
考核方式 Grading	课后作业和平时成绩占 40%，大作业成绩占 60%。			
教材或参考资料 Textbooks & Other Materials	《车辆能量管理：建模、控制与优化》，张希，米春亭，机械工业出版社，2013. ISBN: 9787111416890			

任课教师介绍

姓名: 张希

Name: Xi Zhang

职称: 副研究员, 博导

Title: Associate Professor, Doctoral Supervisor

单位: 上海交通大学机械与动力工程学院

School of Mechanical Engineering, Shanghai Jiao Tong University

Email: braver1980@sjtu.edu.cn



教育背景 Education

- 博士后, 密歇根大学, 2007-2009 Postdoctoral Fellow, University of Michigan, 2007-2009
- 博士, 上海交通大学, 2007 Ph.D., Shanghai Jiao Tong University, 2007
- 硕士, 上海交通大学, 2004 M.S. Shanghai Jiao Tong University, 2004
- 学士, 上海交通大学, 2002 B.S. Shanghai Jiao Tong University, 2002

研究方向 Research Focus

- 新能源汽车电驱动系统 New electric vehicle (NEV) electric drive system
- 新能源汽车能量管理技术 NEV power management technology
- 新能源汽车无线充电技术 NEV wireless charging technology
- 智能电动汽车技术 Intelligent electric vehicle technology

科学思想的表达—以具身化智能研究为实例

Presenting scientific ideas – case studies from embodied intelligence

课程基本信息 Course Information					
课程代码 Course Code	AU26007	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	科学思想的表达—以具身化智能研究为实例 Presenting scientific ideas – case studies from embodied intelligence				
授课语言 Language of Instruction	英文 English				
开课院系 School	电子信息与电气工程学院 School of Electronic, Information and Electrical Engineering				
先修课程 Prerequisite	工程与计算机科学领域的本科基础知识 basic undergraduate knowledge in engineering and computer science				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	Rolf Pfeifer	Professor 教授	瑞士苏黎世大学 University of Zurich	rolf.pfeifer@gmail.com	
课程简介 Description	<p>本课程将以人工智能和机器人的新热点“具身化智能”研究为实例，使学生对“具身化智能”深入清晰的了解,让学生学习如何表达科学思想。课程将指导学生书面形式的科研思想写作，包括如何写研究论文、摘要、张贴海报；以及如何在学术会议上口头表达研究工作，包括各种全程、简短的讲座等。</p> <p>本课程由交大访问讲席教授/瑞士苏黎世大学人工智能实验室主任 Rolf Pfeifer 教授第三次在我校开设此类课程，他将用他在科研和教学方面四十余年的经验，激发学生的科学思维表达技能，令其在此方面大获裨益。</p> <p>The goal of this course is to teach students how to present their scientific ideas in writing and orally. The basic materials that will be used in the course are the “Body intelligence” (“How the body shapes the way we think”) and the student’s own research projects.</p> <p>The students have to prepare various types of presentations that will be recorded by video. In-depth analysis and feedback.</p>				
课程教学大纲 Course Syllabus					
教学安排 Syllabus	教学内容		授课学时	教学方式	授课教师
	Course goals; basics of scientific presentation; the need for embodied intelligence		2	Teaching	Rolf Pfeifer
	Foundations of embodied intelligence; design principles		2	Teaching	Rolf Pfeifer
	Development: from locomotion to cognition		2	Teaching	Rolf Pfeifer

	Evolution: cognition from scratch	2	Teaching	Rolf Pfeifer
	Collective intelligence: Cognition from interaction	2	Teaching	Rolf Pfeifer
	Human memory – a perspective from embodiment	2	Teaching	Rolf Pfeifer
	Final student presentations I	2	Teaching	Rolf Pfeifer
	Final student presentations II	2	Teaching	Rolf Pfeifer
考核方式 Grading	考试采用课堂报告形式 Examination will be in the form of presentations given in the class			
教材或参考资料 Textbooks & Other Materials	<ul style="list-style-type: none"> ● Pfeifer, R., and Bongard, J. (2007). How the body shapes the way we think – a new view of intelligence. MIT Press. (I can provide a pdf for the students) ● 身体的智能—智能科学新视角, Rolf Pfeifer and Josh Bongard 著, 俞文伟, 陈卫东等译, 科学出版社, 2009 年 8 月 ● Course slides (and other materials) 			

任课教师介绍

姓名: Rolf Pfeifer

职称: Professor

单位: Department of Informatics, University of Zurich

Email: rolf.pfeifer@gmail.com



Biography: Master's degree in physics and mathematics and Ph.D. in computer science (1979) from the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland. Three years as a post-doctoral fellow at Carnegie-Mellon and at Yale University in the US. Currently: Deputy Director of the NCCR Robotics, the "National Competence Center for Research in Robotics" in Switzerland.

Research interests: embodied intelligence, biorobotics, morphological computation, and educational technology.

Authored books: "Understanding Intelligence", MIT Press, 1999 (with C. Scheier), "How the body shapes the way we think: a new view of intelligence," 2007 (with Josh Bongard) MIT Press (popular science style), "Designing intelligence - why brains aren't enough" (short version - with Josh Bongard and Don Berry, e-book), and "La révolution de l'intelligence du corps", 2012 ("The revolution of embodied intelligence"; with Alexandre Pitti) (in French).

Lecture series: "The ShanghAI Lectures", a global mixed-reality lecture series on embodied intelligence, broadcast in 2013 from the University Carlos III in Madrid, Spain, Shanghai Jiao Tong University, China, and the University of Zurich, Switzerland, in cooperation with other universities from around the globe.

高级研究写作

Advanced research writing

课程基本信息 Course Information					
课程代码 Course Code	AU26006	学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	高级研究写作 Advanced research writing				
授课语言 Language of Instruction	英文 English				
开课院系 School	电子信息与电气工程学院 School of Electronic, Information and Electrical Engineering				
先修课程 Prerequisite	工程与计算机科学领域的本科基础知识 basic undergraduate knowledge in engineering and computer science				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	Bruce Rogers	教授	美国俄亥俄州立大学教育学院	rogers.55@osu.edu	
课程简介 Description	<p>本课程旨在培养研究生学术型写作的能力。通过本课程，学生能够习得从各类学术资源中提取信息的能力，了解不同类型文章的体裁和写作风格，以及用连贯和学术的方式组织并提出想法。此外，每天还会有一些训练用来提高学生的语法素养和复杂句写作能力。在课后，还会提供机会来提升学生的口语能力。</p> <p>This course is designed to help graduate students to develop the skills necessary to write about and present research findings. Students learn to synthesize information from various print and online sources; employ appropriate genre and documentation conventions for print and online texts; and organize and present their own ideas and those of others in a coherent and scholarly manner. There will be daily practice to improve grammatical accuracy and sentence complexity. Special emphasis on developing and using advanced academic vocabulary is included. Additionally, numerous opportunities to practice and improve spoken English fluency outside of class will be provided.</p>				
课程教学大纲 Course Syllabus					
教学安排 Syllabus	教学内容		授课学时	教学方式	授课教师
	Week one: writing an annotated bibliography, academic writing style, summarizing/paraphrasing, (editing issues, complex sentences, avoiding plagiarism, advanced vocabulary)		10	Teaching	Bruce Rogers
	Week two: Writing a data interpretation essay (editing issues, advanced vocabulary)		10	Teaching	Bruce Rogers

	Week three: research paper writing, part one: methods sections, writing up results. Writing a focused literature review. (editing issues, advanced vocabulary, continued)	10	Teaching	Bruce Rogers
	Week four: research paper writing, part two: introductions and conclusions.	2	Teaching	Bruce Rogers
考核方式 Grading	The main assignments include: (1) an annotated bibliography, (2) data analysis paper, and (3) a review essay/research report. The culmination of the course is to produce an 8-10 page review article/research report			
教材或参考资 料 Textbooks & Other Materials	<ul style="list-style-type: none"> ● Academic Writing for Graduate Students, 3rd. edition (by Swales & Feake, University of Michigan Press). ● Course slides (and other materials) 			

任课教师介绍

姓名: Bruce Roger
中文名: 罗睿
职称: Lecturer
单位: The Ohio State University
Email: rogers.55@osu.edu



Education

- M.A. Ohio State University
- B.A. Tulane University

Research Interests

- Corpus linguistics
- Curriculum design

For 20 years, Mr. Bruce Rogers is dedicated to the Teaching of English Academic Writing. He teaches the graduates Commercial paper writing in Fisher Business School, Ohio State University. One of his strengths is developing and teaching Commercial English. His course is well received for its interesting contents and vivid formality. He likes Chinese idioms and proverbs, and hopes “桃李满天下”. He takes an active part in TAs’ training and graduation projects in universities’ worldwide. He also joins the editing jobs of journals, periodicals, magazines and books. His newest book, Progress in Medical Geology, is due in 2017.

Some interesting tips about Mr. Bruce

- He rides his bike about 200 km every week if weather permits.
- His living house is over 100 years.
- He likes to play football (not American football) with Chinese students.
- His favorite site is the dynamic Riverside Scene at Qingming Festival, Chinese Stadium, Shanghai the World Expo.
- He likes to eat a Chinese dish: fish-flavored eggplant.

大数据时代的工程创新\设计与运营分析

Engineering Innovation/Design and Operations Analysis in Big Data Era

课程基本信息 Course Information					
课程代码 Course Code	AU26008	学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	大数据时代的工程创新\设计与运营分析 Engineering Innovation/Design and Operations Analysis in Big Data Era				
授课语言 Language of Instruction	中英文双语				
开课院系 School	电信学院				
先修课程 Prerequisite	无				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	潘常春	副研究员	上海交通大学自动化系	pan_cc@sjtu.edu.cn	
	Yu-Wang Chen	副教授	曼彻斯特大学	Yu-wang.Chen@manchester.ac.uk	
课程简介 Description	<p>在可预见的未来，企业宏观和微观数据日益增长，多媒体、社交媒体和物联网的兴起将推动数据呈指数级增长。分析大型数据集，即所谓的大数据，将成为企业竞争、创新、支撑新一轮生产率增长和扩大消费者剩余价值的一个重要基础。根据麦肯锡全球研究院的研究，大数据提供给公司和商业组织可观的效益。例如对零售业的大数据分析表明充分利用大数据将会给企业带来零超过60%的运营利润的提升潜力。</p> <p>本课程目标是培养学生在大数据背景下的创新和商业运营的综合领导力。本课程将涵盖工程创新\设计的黄金规则来以训练学生的创造力，多样化的数据分析技术来培养学生的运营分析能力，大规模优化的最新研究进展增强学生在大数据下的技术实现能力。两个全球挑战性问题作为课程案例分析进行深入讨论，即基于大数据的全球海运供应链的风险评估或者基于大数据的超级城市的交通拥堵缓解方案。此外学生还将学习如何进行一场激动人心的科技报告的能力。</p>				
	<p>The increasing volume and detail of information captured by enterprises, the rise of multimedia, social media, and the Internet of things will fuel exponential growth in data for the foreseeable future. Analysing large data sets—so-called big data—,therefore will become a key basis of competition, underpinning new waves of productivity growth, innovation, and consumer surplus, according to research by MGI and McKinsey's Business Technology Office. Big data offers considerable benefits to consumers as well as to companies and organizations. For example, it was estimates that a retailer using big data to the full has the potential to increase its operating margin by more than 60 percent.</p> <p>This course arises in this context aiming to bridge the gap between</p>				

	<p>innovation and business. The course will cover general golden rules of engineering innovation\design to sharpen creative analysis, a wide range of data analytical techniques to facilitate operations, and the cutting edge research in large-scale optimization to support technical realization in context of big data. Two case studies stemming from global challenges confronted by the people, i.e. the risk analysis of global sea transportation supply chain and the traffic problems in super city, are discussed in depth to exhibit how to apply the knowledge to practical applications. Additionally, students will learn how to give compelling in-person presentations.</p>			
课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	1、课程导论, 介绍课程的目标、主要内容和成绩评估方式, 创新&设计的基本原则	4	授课	潘常春
	2、《设计者言》视屏教学与大数据基础	4	授课	潘常春
	3、大数据与商业智能 (I), 数据准备、预处理与质量评估, 数据分析-特征选择、分类和聚类; 预测、预报建模, 相关性和文本挖掘	4	授课	Yu-Wang Chen
	4、大数据与商业智能(II), SAS 技术报告; 数据可视化分析, 风险分析与建模;	4	授课	Yu-Wang Chen
	5、大数据与商业智能(III), 货币折算, 效用理论和决策者的偏好建模;	4	授课	Yu-Wang Chen
	6、大数据与商业智能(IV), 性能分析的证据推理方法;多目标决策分析;	4	授课	Yu-Wang Chen
	7、大数据分析技术-MIC 算法	4	授课	潘常春
	8、案例分析报告	4	授课	Yu-Wang Chen
	考核方式 Grading	小测试 15% 考勤 5% 团队项目 80% 报告 30%, 答辩 20%, 仿真结果正确性 50%		
教材或参考资料 Textbooks & Other Materials	[1]. Bernard Marr. Big Data: Using SMART Big Data, Analytics and Metrics To Make Better Decisions and Improve Performance. 2015. [2]. Jeanne W. Ross, Cynthia M. Beath, Anne Quaadgras. You May Not Need Big Data After All .Harvard Business Review. DECEMBER 2013. [3]. Piyanka Jain. Improving Customer Satisfaction with Simple ics. Harvard Business Review NOVEMBER 17, 2015 [4]. Thomas A. Runkler, Data Analytics: Models and Algorithms for Intelligent Data Analysis, Springer, 2012.			

任课教师介绍

姓名: Yu-Wang Chen

职称: Associate Professor

单位: Business School of The University of Manchester

Email: Yu-wang.Chen@manchester.ac.uk



Education

- Postdoctoral Fellow, The University of Manchester, 2009-2012
- Postdoctoral Fellow, City University of Hong Kong, 2008-2009
- Ph. D. Shanghai Jiao tong University 2008

Research Focus

- Decision and Cognitive Sciences in Business Intelligence
- Identification of uncertain nonlinear systems

Dr. Yu-Wang Chen is associate professor (tenure) in decision sciences at the University of Manchester. He received the PhD degree in control and system engineering from the Department of Automation, Shanghai Jiao Tong University in 2008. He has published over 30 papers in journals and conferences, such as European Journal of Operational Research, Computers & Operation Research, Information Sciences and IEEE T-SMC. He holds and has completed as PI/Co-I several research projects funded by ERC, UK EPSRC, NSFC, etc. He is serving and served as associate editor of Web Intelligence and Agent Systems: An International Journal, editorial board member of International Journal of Productivity and Performance Management, special session organiser or programme committee member of a series of conferences, and UK EPSRC peer review member. His current research interests are mainly in the areas of multiple criteria decision analysis under uncertainties, modelling and optimization of complex systems, and risk analysis in supply chains.

深度学习前沿与实践

Syllabus and Application of Deep Learning

课程基本信息 Course Information					
课程代码 Course Code	AU26009	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	深度学习前沿与实践 Syllabus and Application of Deep Learning				
授课语言 Language of Instruction	中文				
开课院系 School	电子信息与电气工程学院自动化系				
先修课程 Prerequisite	机器学习、神经网络、概率论				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	吴奇	副研究员	电子信息与电气工程学院自动化系	wuqi7812@s jtu.edu.cn	
	卢钊	副教授	Tuskegee University	zl0628087@ mytu.tuskege e.edu	
课程简介 Description	<p>深度学习前沿与实践是为电子信息等专业研究生开设的一门专业选修课程，开课的目的是为对机器学习以及深度学习方向感兴趣的学生提供较系统化的课程学习。随着近年来人工智能与机器学习研究的飞跃发展，深度学习作为一种前沿的机器学习技术在我们的生活与科研中也得到了广泛的应用。本课程将首先从机器学习的基本原理和方法等方面介绍深度学习的基本知识；然后介绍深度学习实践中的深度前馈网络，深度学习参数正则化，深度模型中的优化等规则；结合神经网络，循环和递归网络对深度学习进一步介绍；最后结合实际应用介绍稀疏编码，限制玻尔兹曼机，以及深度高斯等深度学习模型方法。</p> <p>课程的基本要求：1.掌握深度学习的基本原理，掌握机器学习的基本方法；2.掌握深度学习的参数及模型选择的基本规则；3.掌握稀疏编码、限制玻尔兹曼机、深度高斯等应用方法。</p> <p>Syllabus and Application of Deep learning is a specialized elective course for postgraduates majoring in automation and so on, and the purpose of this course is to provide a systematic course for students interested in machine learning and deep learning. With the rapid development of artificial intelligence and machine learning in recent years, deep learning has been widely used in our life and scientific research as a frontier machine learning technology. This course will introduce the basic knowledge of deep learning with the basic principles and methods of machine learning, and then introduce the deep feed-forward network, deep learning parameters regularization and deep model optimization in deep learning practice. Combining with neural network, Recursive networks are introduced in further. Finally, we will learn sparse coding, limited Boltzmann machine and deep Gaussian process in practical application.</p> <p>The basic requirements of the course: 1. the basic principles of deep learning, the basic methods of machine learning;2. the parameters of deep learning and model selection of the basic rules; 3. sparse coding, limit the Boltzmann machine, the depth of Gaussian and other application methods.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	<p>第一章 绪论</p> <p>介绍机器学习、深度学习的基本概念以及发展历史，目前的发展状况和未来的发展趋势，机器学习在我们日常生活中的应用。介绍深度学习课程中需要的一些基本的数学知识。介绍 AlphaGo 的基本原理。</p>	2 学时	课堂教学	卢钊
	<p>第二章 机器学习基础</p> <p>介绍机器学习的基础知识概念，包含机器学习算法，容量、过拟合和欠拟合，超参数和验证集，估计、偏差和方差，最大似然估计，贝叶斯统计，监督学习，无监督学习，随机梯度下降法，以及构建机器学习方法和目前及其学习中面临的一些挑战如：维数灾难和流形学习等知识。</p>	2 学时	课堂教学	卢钊
	<p>第三章 卷积神经网络和循环递归网络</p> <p>介绍卷积神经网络的概念，历史与科学基础，数据的结构，以及卷积神经网络的特征。在此基础上，引入循环和递归网络的概念，对深度循环神经网络和递归神经网络进行介绍。</p>	3 学时	课堂教学	吴奇/卢钊
	<p>第四章 深度学习的应用</p> <p>在前面已有深度学习基础知识的基础上，结合深度学习的应用例子加强对深度学习的理解 and 应用。主要知识点：自动编码器，受限制玻尔兹曼机，以及深度高斯过程。在介绍这几种应用原理的基础上，应用 matlab 实现这几种应用。</p>	6 学时	课堂教学	吴奇
	<p>(1)掌握一类深度自编码网络的构建方法，并结合 matlab 实现这类方法。</p> <p>(2)掌握一类深度限制玻尔兹曼机网络的构建方法，并结合 matlab 实现这类方法。</p> <p>(3)掌握一类深度高斯过程网络的构建方法，并结合 matlab 实现这类方法。</p>	3 学时	程序训练/ 上机	卢钊/吴奇
	考核方式 Grading	<p>本课程的考核方式为：平时成绩 30% + 期末成绩70%</p> <p>平时成绩：包含有出勤，课堂纪律（10%）以及作业的上交（20%）</p> <p>期末成绩：上交一篇与深度学习有关的具体应用案例报告（70%），根据报告的完成质量评定成绩。</p>		
教材或参考资料 Textbooks & Other Materials	<p>[1] Michael Nielsen 著, Xiaohu Zhu, reeman Zhang 译, 神经网络与深度学习 (Version: 0.1), 2016.</p> <p>[2] UFLDL 教程, http://ufldl.stanford.edu/wiki/index.php/UFLDL%E6%95%99%E7%A8%8B</p> <p>[3] Ian Goodfellow. Deep Learning. 2015.</p>			

任课教师介绍

Qi Wu

Associate Professor

Department of automation, **Shanghai Jiao Tong University**

Email: wuqi7812@sjtu.edu.cn

Education

- Postdoctoral Fellow, Hong Kong Polytechnic University, 2010-2013
- Postdoctoral Fellow, Southeast University, 2009-2010
- Ph. D. Southeast University, 2009

Research Focus

- Support vector machine, online sparse Gaussian process
- Deep learning, modeling deep multi-layers network for Big data
- Wavelet transform



Zhao Lu

Associate Professor

Department of Electrical Engineering, **Tuskegee University**

Email: zl0628087@mvtu.tuskegee.edu

Education

- Postdoctoral Fellow, University of Michigan, 2005-2006
- Postdoctoral Fellow, Wayne State University, 2004-2005
- Ph. D. University of Houston, 2004

Research Focus

- Machine Learning and Pattern Recognition
- Cybernetics and Optimization



电力系统运行高级优化 Advanced Optimization of Power System Operation

课程基本信息 Course Information					
课程代码 Course Code	EE26002	学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	电力系统运行高级优化 Advanced Optimization of Power System Operation				
授课语言 Language of Instruction	英文授课				
开课院系 School	电子信息与电气工程学院电气工程系				
先修课程 Prerequisite	电力系统分析				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	付勇 Yong Fu	Associate Professor	Mississippi State Univ.	fu@ece.msstate.edu	
	严正	教授	上海交通大学	yanz@sjtu.edu.cn	
课程简介 Description	<p>随着可再生能源整合及智能电网的日益部署与发展，电力系统运行决策模块正在面临更多的挑战（例如：不确定风能发电，优化储能及用户需求响应）。本课程将讲述如何在现代电力系统复杂运行条件下运用高级优化技术建模及高性能计算，尤其关注基于分解协调的大规模优化，随机优化和鲁棒性优化技术及其应用。通过对本课程的学习，学生可掌握 1) 电力系统运行基本决策模块（例如：经济调度和机组组合）及其高级算法；2) 不确定情况下电力系统运行建模及计算；3) 整合不同优化技术的关键技术和经验。</p> <p>With the increasing deployment of renewable energy resources and smart grids, power system operation decision-making tools are faced with more challenges (e.g. volatility and intermittency of renewable energy, and demand response). This course covers advanced optimization modeling, algorithms and calculations for operating complex power systems, especially focuses on decomposition based optimization techniques, stochastic programming and robust optimization and their applications. Students completing this course will be able to 1) Understand the power system operation decision-making tools; 2) Understand the modeling, algorithms and calculations of power system operation under uncertainties; 3) Understand the key techniques to integrate various optimization techniques for practical operating problems.</p>				
课程教学大纲 Course Syllabus					
教学安排 Syllabus	教学内容		授课学时	教学方式	授课教师
	电力系统分析回顾		2	授课	付勇/严正

	安全限制经济调度	4	授课	付勇/严正
	机组组合	6	授课	付勇/严正
	安全限制机组组合	6	授课	付勇/严正
	高压直流系统运行	4	授课	付勇/严正
	基于随机优化的风能整合	4	授课	付勇/严正
	鲁棒性优化及应用	4	授课	付勇/严正
	课程设计	2	授课	付勇/严正
考核方式 Grading	Homework: 30% Midterm Exam: 20% Final Exam: 30% Final Project: 20% A: 100-90 B: 89-80 C: 79-70 D: 69-60 F: 59-0			
教材或参考资 料 Textbooks & Other Materials	本课程使用同国际一流大学同类课程相同参考书目和资料，并加入电力系统运行研究领域的最新优化技术发展和研究成果。授课教师本人及其合作者已整理其多年相关领域的教学及研究成果。 J. Wood and B.F. Wollenberg, Power Generation, Operation and Control, 2nd edition, Wiley Press, 1996. M. Shahidehpour, Yong Fu, and Zuyi Li, "Operation and Control of Electric Power Systems," John Wiley & Sons, Inc.. (under contract)			

任课教师介绍

姓名: Yong Fu

职称: Associate Professor

单位: Department of Electrical and Computer Engineering, Mississippi State University

Email: fu@ece.msstate.edu



Education

- Ph. D. Illinois Institute of Technology, 2006
- M.S. Shanghai Jiao Tong University, 2002
- B.S. Shanghai Jiao Tong University, 1997

Research Focus

- Power System Operation and Planning
- Power System Reliability and Economics
- Smart Grid
- Renewable Energy Integration
- Electric Shipboard Power Systems

能源互联网的协调控制

Coordination control of energy internet

课程基本信息 Course Information						
课程代码 Course Code	EE26005	学时 Credit Hours	16	学分 Credits	2	
课程名称 Course Name	能源互联网的协调控制 Coordination control of energy internet					
授课语言 Language of Instruction	中文/英文					
开课院系 School	电子信息与电气工程学院					
先修课程 Prerequisite	电气工程基础					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail		
	解大	副教授	上海交通大学电子信息与电气工程学院	xieda@sjtu.edu.cn		
	顾承红	讲师	巴斯大学电子与电气工程系	c.gu@bath.ac.uk		
课程简介 Description	<p>本课程主要以天然气、电能和热能为主的三大能源网络组成的能源互联网为对象，从经济层面和技术层面进行综合研究。经济层面主要包括投资成本、运行成本和最终收益等，主要教学内容包括天然气管道、热力管道和输电线路规划设计原则，电源、热源和气源的选址对能源互联网运行方式的影响，在开放的能源市场中取得最大收益的运行策略的制定方法。技术层面主要包括电热气三种能源的相互转化技术和不同能源形式的储存技术，电网和气网中不同的能量传输速度对能源互联网中整体运行稳定性的影响，热网和气网对降低输电网络电阻塞的支持作用，以及为实现上述研究在相关软件平台上的建模方法。</p> <p>This course is mainly focused on energy Internet consisting of natural gas network, power network and heat networks. From the economic aspect, the economic level mainly includes investment cost, running cost and final income. From the technical aspect. The main teaching contents include the design principles of natural gas pipeline, heat pipe and transmission line planning and the influence caused by power supply, heat source and gas source location on the operation mode of energy Internet operation, and the development strategy of maximizing revenue in open energy market. The technical aspects mainly include the mutual conversion technology of three kinds of energy sources and the storage technology of different energy forms, the influence of different energy transmission speed in power grid and gas network on the overall operation stability of energy Internet, the supporting effect heat and gas network reduce the power blocking of transmission, as well as the relevant software platform and modeling methods to achieve the above research goal.</p>					
课程教学大纲 Course Syllabus						
教学安排 Syllabus	教学内容			授课学时	教学方式	授课教师

	<p>第一章 能源互联网的概念和架构</p> <p>介绍能源互联网的发展背景，对现有的能源互联网进行分析，使同学们对能源互联网发展的必要性和可行性有整体的概念。通过本章学习，了解能源互联网的基本概念和组成架构，对已有技术和需要解决的问题有清晰的认识，为本课程后续章节的学习奠定基础。</p>	3	互动教学	解大
	<p>第二章 能源互联网中不同网络之间的协调控制</p> <p>以电能、热能和天然气能三大主要能源构成的能源互联网为对象，对三种能源网络的运行特点进行介绍，使同学们对能源互联网的协调控制方法进行探讨。通过本章学习，了解电能网络、热能网络和天然气网络的运行特点，掌握保证其正常运行的关键技术，并能够在相应的软件平台上完成对能源互联网的初步建模，进而得到能源互联网的协调控制策略。</p>	6	互动教学	解大
	<p>第三章 能源互联网的经济运行</p> <p>通过介绍开放能源市场的基本特点，对能源互联网中的运行成本和收益进行综合讲解，同时对能源互联中的选址问题对整体经济性影响进行分析，使同学们对能源互联网的经济运行模式有较深刻的理解。通过本章学习，了解开放能源市场的运行特点，掌握对能源互联网的运行成本和收益的分析方法和优化算法，得到能源互联网中的选址对能源互联网经济运行影响的一般规律。</p>	5	互动教学	顾承红
	<p>第四章 老港固废综合利用基地能源互联网实例讲解</p> <p>通过介绍老港固废综合利用基地能源互联网的构成，组织同学们用前面学到的知识对其运行方式进行分析，培养学生学以致用能力。通过本章学习，使同学们掌握用第二章和第三章的理论知识对实际的能源互联网进行分析的方法，能够对老港固废综合利用基地内部能源互联网的优势和不足进行全面评估。</p>	2	互动教学	顾承红
考核方式 Grading	以小组形式做一个有关于能源互联网的报告一份，完成大作业一份			

任课教师介绍

姓名: Da Xie

职称: A.Prof.

单位: Dept. of Electronic & Electrical Eng., Shanghai JiaoTong University (China)

Email: xieda@sjtu.edu.cn



Education

- 1996 - 1999: Ph.D, Dept. of Electronic & Electrical Eng., Shanghai JiaoTong University (China)
- 1993 - 1996: Master Degree, Dept. of Electronic & Electrical Eng., Harbin Industry Technology (China)
- 1987 - 1991: Bachelor Degree, Dept. of Electronic & Electrical Eng., Shanghai JiaoTong University (China)

Research Focus

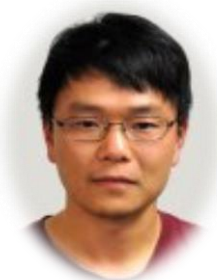
- Intelligent EV Charging-Discharging-Storage Integrated Station
- Modeling and Analysis of Torsional Vibrations of Wind Farm

姓名: Chenghong Gu

职称: Lecture

单位: Department of Electronic and Electrical Engineering, University of Bath

Email: c.gu@bath.ac.uk



Education

- 2007 - 2010: Ph.D, Department of Electronic and Electrical Engineering, University of Bath
- 2003 - 2007: Master Degree, Dept. of Electronic & Electrical Eng., Shanghai JiaoTong University (China)
- 1999 - 2003: Bachelor Degree, Dept. of Electronic & Electrical Eng., Shanghai University of Electric Power (China)

Research Focus

- Power system planning and optimal operation

Sigma-Delta 模数转换器设计进阶

High Performance Sigma-Delta Analog to Digital Converter Design

课程基本信息 Course Information						
课程代码 Course Code	ES26049	学时 Credit Hours	32	学分 Credits	2	
课程名称 Course Name	Sigma-Delta 模数转换器设计进阶 High Performance Sigma-Delta Analog to Digital Converter Design					
授课语言 Language of Instruction	英文 English					
开课院系 School	电子信息与电气工程学院微纳电子学系 Department of Micro/Nano Electronics					
先修课程 Prerequisite	模拟集成电路设计 Analog Integrated Circuits Design					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail		
	Franco Maloberti	教授	意大利帕维亚大学	franco.maloberti@unipv.it		
	王国兴	副教授	上海交通大学微纳电子学系	guoxing@sjtu.edu.cn		
课程简介 Description	<p>该课程以讲授为主，授课重点放在高性能模数转换器的设计以及近几年先进研究成果的介绍，重点强调 sigma-delta 模数转换器的设计。</p> <p>Franco 教授将会在课程中将他近几年中最新的研究成果进行介绍，采用其新著教材《Data Converters》，将模数转换器的知识尤其是 Sigma-Delta 模数转换器的知识介绍给学生。与此同时，计划请工业界的老师进行辅助教学，以期教学内容更加贴近工业界实际。在教学过程中，以课程讲授和实验相结合，注重学生的动手能力，让学生在实践中得到进步。</p> <p>The course will be mainly on lecturing. The teaching will focus on the design of high performance ADC and the introduction of advanced research results in recent years. And the design of sigma-delta ADC will be focused. Professor Maloberti will introduce his newest research results in recent years, and will introduce the knowledge of ADC and analog circuit design to students by using the book the Data Converters written by Prof. Maloberti. At the same time, teachers (to be determined) in industry field will join this course to bring our course closer to industry field. During teaching, some experiment (simulation) lectures will be introduced, to improve students' practicing ability.</p>					
课程教学大纲 Course Syllabus						
教学安排 Syllabus	教学内容			授课学时	教学方式	授课教师
	Analog Layout			4	讲授	Franco Maloberti
	Introduction to ADC Design			4	讲授	Franco Maloberti
	Interleaving ADC			4	讲授	Franco Maloberti

	Sigma Delta ADC	20	讲授	Franco Maloberti
考核方式 Grading	无考试。出勤考核。课程结束递交学习报告。 No Exams. Attendance is required. Final Course Report is required.			
教材或参考资 料 Textbooks & Other Materials	<ol style="list-style-type: none"> 1. Franco Maloberti 主编,《数据转换器》, 西安交通大学出版社, 2013 年 7 月。 2. Richard Schreier, Gabor C. Temes 等主编,《理解 Delta-Sigma 数据转换器》, ISBN-13: 978-0471465850, 2005 年。 <ol style="list-style-type: none"> 1. Franco Maloberti, 《Data Converters》, 2013。 2. Richard Schreier, Gabor C. Temes 《Understanding of Delta-Sigma Data converters》, ISBN-13: 978-0471465850, 2005. 			

任课教师介绍

姓名: Franco Maloberti

职称: Professor

单位: University of Pavia (Italy)

Email: franco.maloberti@unipv.it

Webpage: ims.unipv.it/~franco/



Introduction

- President, IEEE Circuits and Systems Society
- Fellow of IEEE
- Professor at the University of Pavia, Italy
- Honorary Professor, University of Macau, China SAR
- TI/J. Kilby Chair Professor at the TAMU and Chair Professor at University of Texas at Dallas
- Visiting Professor at ETH-PEL, Zurich in 1993 and at EPFL-LEG, Lausanne in 2004
- The Laurea Degree in Physics and the Dr. Honoris Causa degree in Electronics from Inaoe, Puebla, Mexico

Research Focus

- His scientific interests are in the analog and mixed-signal integrated circuits.

透射电子显微镜的应用技术

Techniques and Applications of Transmission Electron Microscopy

课程基本信息 Course Information						
课程代码 Course Code	MT26007	学时 Credit Hours	32	学分 Credits	2	
课程名称 Course Name	透射电子显微镜的应用技术 Techniques and Applications of Transmission Electron Microscopy					
授课语言 Language of Instruction	中文					
开课院系 School	材料科学与工程学院					
先修课程 Prerequisite						
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail		
	陈彬	高级工程师	材料科学与工程学院	steelboy@sjtu.edu.cn		
课程简介 Description	<p>本课程在相关的理论基础上，将重点放在透射电镜实际实用技术、样品制备和电镜结果分析上，将理论和操作经验、分析实例相结合，从电子衍射分析、衍射衬度分析、常用附件功能、透射电镜样品制备、透射电镜基本操作和维护等几方面做介绍，使学生能较直观的了解透射电镜相关技术。此外，结合透射电镜技术的发展，本课程讲解电子显微技术在材料领域国际最新研究成果，将近年发展起来的扫描透射(STEM)和球差校正器(Cs corrector)等电镜技术加入到课程中。</p> <p>On the basis of theory, the course focuses on practical TEM technology. Several aspects of the basic transmission electron microscope operation and maintenance such as the analysis of electron diffraction, contrast analysis, accessory instruments, TEM sample preparation, and so on, will be introduced. In addition, the recent development of TEM such as STEM and Cs corrector (spherical aberration corrector) etc. will also be introduced in the course.</p>					
课程教学大纲 Course Syllabus						
教学安排 Syllabus	教学内容			授课学时	教学方式	授课教师
	透射电镜基础知识			4	课堂	陈彬
	透射电镜常规分析			4	课堂	陈彬
	透射电镜常用附件及功能			4	课堂	陈彬
	透射电镜样品制备技术			4	课堂	陈彬

	透射电镜最新发展	4	课堂	陈彬
	透射电镜样品制备实践	8	实践	陈彬
	透射电镜基本操作实践	4	实践	陈彬
考核方式 Grading	实验成绩			

任课教师介绍

姓名：陈彬

职称：高级工程师

单位：上海交通大学材料科学与工程学院

Email: steelboy@sjtu.edu.cn



学习、工作经历

- 1996/09 - 2000/06, 武汉科技大学, 材料与冶金学院, 学士
- 2000/09 - 2003/03, 武汉科技大学, 材料与冶金学院, 硕士
- 2003/03 - 2007/06, 上海交通大学, 材料科学与工程学院, 博士
- 2007/07 - 2009/07, 上海交通大学, 机械与动力学院, 博士后
- 2009/07 - 2011/03, 上海交通大学, 材料科学与工程学院, 材料检测与分析中心, 助理研究员
- 2011/03 - 2013/03, 上海交通大学, 材料科学与工程学院, 材料检测与分析中心, 高级工程师
- 2013/03 - 2013/05, 日本东北大学, 访问学者
- 2013/05 - 至今, 上海交通大学, 尖端物质结构研究中心, 高级工程师

研究领域

- 电子显微学在材料科学中的应用
- 材料微观组织表征
- 先进材料（金属、医用材料、能源材料）的结构、性能和加工等研究

幸福人生 Happy and Life

课程基本信息 Course Information					
课程代码 Course Code	BI28004	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	幸福人生 Happy and Life				
授课语言 Language of Instruction	中文				
开课院系 School	生命科学技术学院				
先修课程 Prerequisite	传统文化相关知识				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	张大兵	讲席教授	生命科学技术学院	zhangdb@sjtu.edu.cn	
课程简介 Description	<p>目前有些学生过分注重知识积累和学习, 往往忽视对社会、文化等了解和关注, 在遇到一些实际困难时候, 如感情挫折、学业就业压力时候, 往往表现出迷茫和无所适从, 导致精神紧张, 甚至出现心理问题。因此, 针对博士研究生开设一些启迪人生智慧的讲座, 介绍缓解压力、克服心理障碍的对治方法, 预期可以缓解这类问题发生, 对学生的健康学习和生活具有非常重要的意义。</p> <p>本课程拟从以下几个方面做讲解: 1) 如何认识面对人生痛苦、痛苦的缓解和解决方法; 2) 如何培养健康的爱情和婚姻观; 3) 如何树立正确的金钱观; 4) 如何与人沟通交流; 5) 社会危机和科学技术; 6) 如何培养良好健康的生活饮食习惯。</p> <p>第一讲: 如何认识面对人生痛苦、痛苦的缓解和解决方法: 1: 人生痛苦的定义和类型; 2: 产生痛苦的原因分析; 3: 痛苦的对治疗方法。</p> <p>第二讲: 如何培养健康的爱情和婚姻观: 1: 爱情和婚姻的本质; 2: 如何培养正确的爱情和婚姻观念。</p> <p>第三讲: 如何树立正确的金钱观: 1: 金钱的本质; 2: 目前社会对金钱过度追求带来的问题; 3: 培育正确、理智看待金钱观念。</p> <p>第四讲: 如何与人沟通交流: 1: 人与人之间沟通交流的重要性; 2: 常见沟通方面问题; 3: 人和人的沟通技巧。</p> <p>第五讲: 社会危机和科学技术: 1: 目前社会危机有哪些; 2: 目前科学技术针对社会危机解决方案; 3: 未来挑战和应对措施。</p> <p>第六讲: 如何培养良好健康的生活饮食习惯: 1: 目前年轻人常见的健康问题和不良生活饮食习惯; 2: 健康的生活饮食习惯探讨。</p> <p>Chapter 1: How to deal with mental difficulties and pains: 1: Defination and types of mental pains; 2: Analysis of the causes of mental pains; 3: Proper approaches to remove the mental pains.</p> <p>Chapter 2: How to have a healthy and lovely marriage: 1: The truth of love and marriage; 2: Approaches to have a healthy and sucessful marriage.</p>				

	<p>Chapter 3: How to deal with money: 1: The truth about the money; 2: Current problems of people caused by money; 3: Reasonable way in dealing with money.</p> <p>Chapter 4: How to communicate with others: 1: Importance of communications; 2: Frequent problems in communications; 3: Skills of communications.</p> <p>Chapter 5: Social crisis and science and technology: 1: Current crisis of the society such as food, environment; 2: Solutions to social problems by science and technology; 3: Future challenges and possible solutions.</p> <p>Chapter 6: How to develop a health life and diet style: 1: Current problems caused by life and diet style; 2: Discussion on healthy life and diet style.</p>			
课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	如何认识面对人生痛苦、痛苦的缓解和解决方法	3	课堂教学	张大兵
	如何培养健康的爱情和婚姻观	3	课堂教学	张大兵
	如何树立正确的金钱观	3	课堂教学	张大兵
	如何与人沟通交流	3	课堂教学	张大兵
	社会危机和科学技术	2	课堂教学	张大兵
	如何培养良好健康的生活饮食习惯	2	课堂教学	张大兵
	考核方式 Grading	总结		
教材或参考资料 Textbooks & Other Materials	<p>1) 论语别裁, 作者: 南怀瑾;</p> <p>2) 中国智慧, 作者: 易中天;</p>			

任课教师介绍

姓名：张大兵

职称：讲席教授

单位：生命科学技术学院

Email: zhangdb@sjtu.edu.cn



Education

- 1991年—1994年，南京大学，生物第植物学专业；
- 1994年—1998年，中国科学院上海植物生理生态研究所，分子遗传学；
- 1998年—2005年，上海市农业科学院，生物技术研究中心，植物分子生物学实验室主任、助理研究员、副研究员、研究员；
- 2005年—至今，上海交通大学

Research Focus

- 水稻花器官形态建成的分子调控机理研究；
- 水稻雄性生殖发育的分子调控机制研究；
- 水稻分子辅助育种。

方法论研究：文献综述与理论建构

Research Method: Literature Review & Theory Building

课程基本信息 Course Information					
课程代码 Course Code		学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	方法论研究：文献综述与理论建构 Research Method: Literature Review & Theory Building				
授课语言 Language of Instruction	中文				
开课院系 School	国际与公共事务学院				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	胡晓波	教授	Clemson University	xhu@clemson.edu	
课程简介 Description	<p>目的：本课程旨在使学生能进一步掌握和运用有效的方法论从事研究并发表高质量的研究论文。在这门课里，学生主要将学习、分析和批判地吸收不同方法论，并集中精力建立自己的文献综述和理论构建。</p> <p>学习形式：学生将阅读、学习和分析不同方法论及不同文献综述的方法。在此基础上批判地吸收不同方法论并通过实践集中精力建立自己的文献综述和构建自己的理论框架。每周暂拟授课两次（周二、周四）。</p> <p>结果预期：学生通过这门课的学习能够了解文献综述的意义和正确写法，并提高他们文献综述的能力。</p> <p>Purpose: The course aims at preparing graduate students to master effective ways to conduct research and publish high-quality research articles. Through the class students will learn, analyze and critically examine different research methods, and focus on build their own literature review and theoretical arguments.</p> <p>Format: Students will be assigned to read, examine and analyze different research methods and ways to review literature. Based on this, students will critically investigate different methods and develop their own set of literature to review for their own theoretical arguments. Two classes are offered each week (Tuesday & Thursday).</p> <p>Expected outcome: Though the class the student will be able to understand the significance of literature review and the right ways to conduct it, and improve their ability to write better literature review.</p>				
课程教学大纲 Course Syllabus					
教学安排 Syllabus	教学内容		授课学时	教学方式	授课教师
	一、方法论概论		2	讲课、讨论、	胡晓波
	二、社会科学理论建树		2	讲课、课堂讨论、	胡晓波

	三、理论与理论构建	2	讲课、 讨论、	胡晓波
	四、现实问题与理论问题	2	讲课、 讨论、	胡晓波
	五、文献综述	2	讲课、 讨论、	胡晓波
	六、文献综述：实例分析	2	讲课、 讨论、	胡晓波
	七、文献综述：理论批判与理论发展	2	讲课、 讨论、	胡晓波
	八、文献综述实践	2	学生 报告	胡晓波
考核方式 Grading	口头报告点评及书面报告			
教材或参考资 料 Textbooks & Other Materials	由教授提供（非教课书）			

任课教师介绍

姓名: 胡晓波

职称: Professor of Political Science

单位: Clemson University

Email: xhu@clemson.edu



Education

- Duke University, Ph.D. in Political Science
- Peking University, & Institute of International Relations, LL.M. in World Politics
- Institute of International Relations, B.A. in International Relations and English

Research Focus

- International Politics, mainly focus on China and East Asia.

Academic Experience

- Professor of Political Science, Clemson University, 2006 – present
- Visiting Senior Research Fellow, East Asian Institute, National University of **Singapore**, fall 2012
- Visiting Senior Fellow, Beijing Normal University, **Beijing**, China, 2006 – 2008
- Visiting Senior Fellow, University of Wollongong, Wollongong, **Australia**, summer 2006
- National Fellow, Hoover Institution, **Stanford University**, 2004 – 2005
- Visiting Senior Fellow, Shanghai Institute for International Studies, **Shanghai**, China, summer 2004
- Visiting Professor, School of Public Policy and Management, **Tsinghua University**, Beijing, China, Summer 2003 (canceled due to SARS)
- Associate Professor of Political Science, Clemson University, 2002 – 2006
- Public Policy Scholar, **the Woodrow Wilson Center**, **Washington**, D.C., 2001
- Assistant Professor of Political Science, Clemson University, 1999 – 2002
- Research Fellow, East Asian Institute, National University of Singapore, **Singapore**, 1997 – 1998
- Guest Professor, Branch Campus, **Peking University**, Beijing, China, 1995 – 1997
- Visiting Professor, Department of Politics and Public Administration, **Nanjing University**, Nanjing, China, summer 1995 and summer 1996
- Assistant Professor of Government, Morehead State University, 1994 – 1999
- Instructor, Department of Politics, **Wake Forest University**, 1993 – 1994
- Research Fellow, Projects on “The Market Development and State Planning,” and “Government Planning, Regulation, and Adjustment Policies,” **the Development Research Center**, the State Council, China, 1991 – 1992
- W. W. Kulski Instructor, Department of Political Science, **Duke University**, spring 1992

技术商业化的理论与实践

The Theory and Practice of Technology Commercialization

课程基本信息 Course Information					
课程代码 Course Code	EC26174	学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	技术商业化的理论与实践 The Theory and Practice of Technology Commercialization				
授课语言 Language of Instruction	中文				
开课院系 School	安泰经济与管理学院				
先修课程 Prerequisite	无				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	赵旭	教授	安泰经管学院	xzhaos@sjtu.edu.cn	
	刘燕刚	教授	产业技术研究院	ygliu@sjtu.edu.cn	
	王映初	创始人	初创投资	wyc@entrue.cn	
课程简介 Description	<p>高校拥有人才、科研、技术优势，是推动社会经济技术变革与进步的重要力量。因此，推动技术商业化不仅能实现科研成果自身的经济效益和社会效益，实现高新技术成果从实验室到市场的良性循环，而且能为国家和地区的经济转型升级发展做出重大贡献，推动经济发展和社会进步。</p> <p>技术商业化是学术研究与商业之间的桥梁，是将技术引入市场的过程。本课程拟基于国际认可的技术商业化的理论和方法，结合我国的实际情况和技术商业化案例，系统讲授技术商业化的现状、政策、战略和商业模式，以及知识产权保护、新创技术公司的团队组建、新创技术公司的融资，并以项目制、研讨式的教学方法，将技术商业化的项目实践贯穿整个课程。</p> <p>Universities have the advantage in talent, scientific research, technology, should play an important role in promoting social and economic development and technological progress. Drive the commercialization of technology can not only realize the economic and social benefits of scientific research achievements, realize the virtuous circle of high and new technology achievements from the laboratory to the market, but also make great contributions to the industrial transformation and upgrading of the country and the region, promote economic development and social progress.</p> <p>Technology commercialization is a bridge between academic research and business, and is the process of introducing technology into the market. Based on the theory and method of international commercialization of technology, this course will include the current situation, policy, strategy and business model of commercialization of technology, as well as intellectual property protection, team building of ventures, financing for ventures. Technology commercial project practice will be throughout the course with the project - based teaching methods.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	第一章 全球技术商业化的现状与趋势	2	授课+项目调查 技术商业化现状	
	第二章 我国技术商业化的政策（特别是高校技术商业化的政策）	2	讲授	
	第三章 上海交大技术商业化案例	2	讲授	刘燕刚
	技术创新型公司考察	4	考察	
	第四章 技术商业化战略	2	讲授+项目讨论	
	第五章 新产品商业化过程	2	讲授+项目讨论	
	第六章 知识产权的保护与管理	2	讲授	
	第七章 商业模式分析与设计	6	讲授+项目讨论	
	第八章 新创技术公司的团队组建	2	讲授	
	第九章 新创技术公司的融资	2	讲授	王映初
	实践：团队商业计划和路演	6		
	考核方式 Grading	课堂探讨+头脑风暴（30%）：课堂互动；课上和网上讨论； 项目阶段分析（40%）：结合团队项目分析； 项目 BP 和路演（30%）		
教材或参考资料 Textbooks & Other Materials	Natasha Evers, James Cunningham, Thomas Hoholm, Technology Entrepreneurship Patri K. Vennuvinod, Technology, Innovation and Entrepreneurship			

任课教师介绍

姓名：赵旭

职称：教授

单位：上海交通大学安泰经济与管理学院应用经济学教授

上海交通大学创业学院常务副院长

Email: xzhao@sjtu.edu.cn



资本市场犯罪法律与经济分析

A Legal & Economic Analysis of Capital Market Crime

课程基本信息 Course Information					
课程代码 Course Code	LA26069	学时 Credit Hours	12	学分 Credits	2
课程名称 Course Name	资本市场犯罪法律与经济分析 A Legal & Economic Analysis of Capital Market Crime				
授课语言 Language of Instruction	中文、英文双语				
开课院系 School	法学院、经管学院				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	谢杰	副教授（院聘）	凯原法学院	jiexie@sjtu.edu.cn	
	扬眉	副调研员	中国证监会		
	Paul H. Robinson	Professor	University of Pennsylvania, Law School		
课程简介 Description	<p>《资本市场犯罪法律与经济分析》课程旨在突破《证券法》以及经济刑法等法学学科相关课程（例如，《金融犯罪》、《证券期货犯罪》等）的局限，结合经济学与法学、证券法（包括期货、衍生品等法律监管课程方面的内容）与经济刑法交叉的实体内容与教研方法，实现跨科学课程、研究、方法的互为延伸。</p> <p>《资本市场犯罪法律与经济分析》课程拓展性地整合资本市场犯罪案件判例（主要为中国大陆资本市场中的内线交易、市场操纵、虚假陈述犯罪案件判决，穿插我国台湾地区、香港特别行政区、美国、欧盟、英国、德国、日本等资本市场犯罪案件的判例）为基础的判例讨论、教学与科研，丰富不同层次的法学、经济学学生获得跨法律与经济领域的连贯性的知识与学术锻炼。本课程以中文与英文双语教学，中文讲授部分适当侧重具体实务问题与案例分析的剖析；英文讲授部分适当侧重法律与金融跨学科分析的理论深化。</p> <p>本课程将会邀请国际知名专家与国内证监会、公安部、最高人民法院、最高人民检察院、上海市人民法院、上海市人民检察院、上海市证监局等实务专家，与学生分享与研讨实践中的资本市场犯罪判例及其疑难问题，使得课程更贴近真实资本市场犯罪司法实务的情境。</p> <p>This seminar will provide an analysis of the criminal law targeting capital market crime. The statutes, regulations, judicial interpretations, cases and jurisprudence addressing criminal conduct in the capital market will be examined from the perspectives of both theory and practice. Students will gain insight into the mechanics of various typologies of capital market criminal schemes, from material misrepresentation to insider trading and market manipulation. The seminar will also examine the rise of internet finance and its impact on capital market crimes, and evolving criminal law enforcement efforts to address them.</p> <p style="text-align: center;">It is a seminar-style class.</p>				

	<p>The assignments are meant to include all discussion issues materials as well as all introductory materials to each topic and section prepared one week before each seminar. The reading package consist of journal articles, book chapters, relevant timely news, cases, and other materials as part of the required course readings that will be the subject of class discussion.</p> <p>The readings for each topic will include a principal case that shows the real situations of the capital market in China and the operation of the rules or practice in the Chinese criminal justice.</p> <p>Each topic will have its own special issues and unique questions related to law and economics of capital market crimes, but for all topics the seminar participants should be prepared to give their views on several standard questions:</p> <ol style="list-style-type: none"> 1. How would you describe the characteristics of the Chinese capital market, and criminal regulatory environment in which the principal happened? 2. What market forces or economic mechanism contribute to the cause of the principal case? 3. What criminal liability and punishment, if any, did the defendant in the principal case deserve for his alleged or convicted capital market violation? Why? 4. If the defendant received more or less punishment than what you think he or she deserved, what economic force, regulatory power or legal rules cause that disparity? 5. Should the government or justice system strengthen regulation, initiate regulatory measures or deregulate the specific segment of the capital market which gave rise to the criminal behavior of the principal case? 6. What reform of the rule or practice would you recommend that would strike a better balance between efficient capital market and fair protection of market participants? Except for the optimization of the capital market criminal law, how would your revised rule or practice concerned to the non-criminal regulatory arrangements? 			
课程教学大纲 Course Syllabus				
教学安排 Syllabus	教学内容	授课学时	教学方式	授课教师
	资本市场犯罪：经济机理与法律规制 一、资本市场与金融原理 二、资本市场犯罪监管实践 三、资本市场犯罪法律与经济分析 四、资产泡沫、金融危机与资本市场犯罪	3	seminar	谢杰/扬眉
	内线交易犯罪的法律与经济分析	3	seminar	谢杰 /Robinson
	市场操纵犯罪的法律与经济分析	3	seminar	谢杰/嘉宾
资本市场机制优化、资本市场犯罪控制与制度改革前瞻	3	seminar	谢杰/嘉宾	
考核方式 Grading	课堂参与（40%）；论文（60%） Participation 40%; Paper 60%			

教材或参考资料 Textbooks & Other Materials	<p>教材</p> <p>Xie Jie, <i>Capital Market Criminal Law</i>, Shanghai: People's Publishing House of Shanghai, 2016. (谢杰:《资本市场刑法》, 法律出版社 2016 年版。)</p> <p>Xie Jie, <i>Criminal Regulation of Capital Market Manipulation</i>, Shanghai: People's Publishing House of Shanghai, 2013. (谢杰:《操纵资本市场犯罪刑法规制研究》, 上海人民出版社 2013 年版。)</p> <p>Xie Jie, <i>Financial Market Crime in China: A Legal & Economic Analysis</i>, Lambert Academic Publishing, 2015.</p> <p>主要参考资料</p> <ul style="list-style-type: none"> ●Xie Jie, The Optimization of Judicial Rules on Anti-insider Trading in China: Focusing on the Judicial Interpretation for the Crime of Insider Trading, <i>International Journal of Law, Crime and Justice</i> 43 (2015): 151-193. ●Xie Jie, Criminal Regulation of High Frequency Trading on China's Capital Market, <i>47 International Journal of Law, Crime and Justice</i> 106 (2016). ●Margaret K. Lewis, Criminal Law Pays: Penal Law's Contribution to China's Economic Development, <i>Vanderbilt Journal of Transnational Law</i> 47 (2014): 371-450. ●Nicholas C. Howson, Punishing Possession-China's All-Embracing Insider Trading Enforcement Regime, In <i>Research Handbook on Insider Trading</i>, edited by S. Bainbridge, 327-46. Research Handbooks in Corporate Law and Governance. Northampton, Mass.: Edward Elgar Publishing, 2013. ●Nicholas C. Howson, Enforcement Without Foundation?-Insider Trading and China's Administrative Law Crisis, <i>American Journal of Comparative Law</i> 60 (2012): 955-1002. ●Hui Huang, The Regulation of Insider Trading in China: A Critical Review and Proposals for Reform, <i>Australian Journal of Corporation Law</i> 17(3) (2005): 281-322. ●Hui Huang, Insider Trading and the Regulation on China's Securities Market: Where Are We Now and Where Do We Go from Here?, <i>Journal of Business Law</i> 5 (2012): 379-403. ●Liu Xainquan, Securities and Futures Crimes in the People's Republic of China, <i>Company Lawyer</i> 25 (2004): 345-351. ●Frank H. Easterbrook, Monopoly, Manipulation, and the Regulation of Futures Markets, <i>Journal of Business</i> 59 (1996): 103-127. ●Daniel R. Fischel & David J. Ross, Should the Law Prohibit "Manipulation" in Financial Markets?, <i>Harvard Law Review</i> 105 (1991): 503-553. ●S. Thel, \$850,000 in Six Minutes - The Mechanics of Securities Manipulation, <i>Cornell Law Review</i> 79 (1994): 219-298. ●Jerry W. Markham, Manipulation of Commodity Futures Prices - The Unprosecutable Crime, <i>Yale Journal on Regulation</i> 8 (1991) : 281-380. ●Jerry W. Markham, Law Enforcement and the History of Financial Market
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	<p>Manipulation, New York: M. E. Sharpe, 2014.</p> <ul style="list-style-type: none">● William K. Black, <i>The Best Way to Rob a Bank Is to Own one</i>, Austin: University of Texas Press, 2005.● Xie Ping & Zou Chuanwei, <i>The Theory of Internet Finance</i>, <i>China Economist</i>, Volume 8, Number 2 (March 8, 2013).● Vivienne Bath, <i>China, International Business, and the Criminal Law</i>, <i>Asian-Pacific Law and Policy Journal</i> 13 (2011): 1-35.● Christopher M. Zoeller, <i>Corporate Scandals: Global Recognition of Securities Regulation - How Is China Faring?</i>, <i>University of Toledo Law Review</i> 41 (2009): 213-254.● Guanghua Yu, <i>Using Western Law to Improve China's State-Owned Enterprises: Of Takeovers And Securities Fraud</i>, <i>Valparaiso University Law Review</i> 39 (2004): 339-376.● Tianlong Hu & Dong Yang, <i>The People's Funding of China: Legal Developments of Equity Crowdfunding-Progress, Proposals, and Prospects</i>, <i>University of Cincinnati Law Review</i> 83 (2014): 445-475.● Benjamin L. Liebman & Curtis J. Milhaupt, <i>Reputational Sanctions in China's Securities Market</i>, <i>Columbia Law Review</i> 108 (2008): 929-982.
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任课教师介绍

谢杰: Xie Jie

副教授: Associate Professor

上海交通大学凯原法学院 KoGuan Law School, Shanghai Jiao

Tong University

Email: jiexie@sjtu.edu.cn



教育 Education

- 博士后, 新加坡国立大学 Postdoctoral Fellow, National University of Singapore 2015-2016
- 法学博士, 华东政法大学 PhD, East China University of Politics & Law 2011-2014

经历 Experience

- 副教授, 上海交通大学凯原法学院 Associate Professor, KoGuan Law School, Shanghai Jiao Tong University 2016-
- 讲师, 华东政法大学 Lecturer, East China University of Politics & Law 2014-2016
- 客座研究员, 宾夕法尼亚大学 Visiting Researcher University of Pennsylvania 2013-2014
- 检察官, 上海市宝山区人民检察院 Assistant District Attorney, People's procuratorate of Shanghai, Baoshan District

研究方向 Research Focus

- 金融监管 Financial Regulation
- 法律经济学 Law & Economics
- 资本市场刑法 Capital Market Criminal Law

律师国际业务前沿精讲

Practical Skills for International Lawyering

课程基本信息 Course Information						
课程代码 Course Code	LA26070	*学时 Credit Hours	16	*学分 Credits	1	
*课程名称 Course Name	(中文) 律师国际业务前沿精讲					
	(英文) Practical Skills for International Lawyering					
*授课语言 Language of Instruction	英文					
*开课院系 School	法学院 (上课地点在摩根·路易斯律师事务所上海办公室)					
*授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail		
	EDDIE HSU	PARTNER	美国摩根·路易斯律师事务所 (Morgan Lewis & Bockius LLP)	Eddie.hsu@morganlewis.com		
	Matthias Vanhullebusch	Associate professor	KoGuan Law School	mvanhullebusch@icloud.com		
*课程简介 (中文) Description	课程将基于美国摩根·路易斯律师事务所合伙人 EDDIE HSU 先生的执业实践, 对律师推进国际间业务模块所可能遇到的问题和应对技术进行讲授。课程主要采取案例分析方式分析阐述跨境投资并购所面临的系列实务问题, 包括非披露协议、术语、合资合同、股权转让、基本融资协议等。课程形式包括讲座、研讨会和实务模拟等。					
*课程简介 (英文) Description	<p>The purpose of this course is threefold:</p> <ol style="list-style-type: none"> 1. To provide students with a solid framework to analyze and structure a variety of foreign investment transactions in China. 2. To develop students' ability to apply facts to theoretical knowledge and legal analysis through the case studies and simulations. 3. To gain practical experience drafting key transaction documents and understanding how different contract clauses can be used to achieve investor objectives. <p>Through the above, students will develop the "instinct" of an international lawyer, and a framework from which to counsel foreign clients with their business endeavours in China.</p>					
课程教学大纲 Course Syllabus						
*教学安排 Syllabus	教学内容			授课学时	教学方式	授课教师
	中国外商投资制度			6	Teaching	EDDIE HSU Matthias Vanhullebusch

	外商投资企业法律架构选择	4	Teaching	EDDIE HSU
	外资监管审批法律体系	4	Teaching	EDDIE HSU
	外国投资、并购、谈判	4	seminar	EDDIE HSU
	融资银行账户、贷款和担保	4	Teaching	EDDIE HSU
	外国投资者的技术转让和许可	4	Teaching	EDDIE HSU
	外国投资者的争端解决（诉讼与仲裁）	6	seminar	EDDIE HSU Matthias Vanhullebusch
*考核方式 Grading	Participation 60%; Paper 40%			
教材或参考资料 Textbooks & Other Materials				

任课教师介绍

Eddie Hsu, Partner ,Morgan Lewis & Bockius LLP

教育背景

2005 年，纽约大学法学院，法学博士

1999 年，加州大学洛杉矶分校（UCLA），文学士，with honors, Phi Beta Kappa



Eddie Hsu represents public and private corporations, financial institutions, and private equity sponsors and their portfolio companies in a range of cross-border commercial transactions in the greater China region, with a focus on mergers and acquisitions, joint ventures, and financings (including real estate finance). Eddie also has experience on technology licensing matters, and in advising owners, developers, and operators with regard to hotel, private club, and serviced residential condominium projects. He is admitted to practice in California only.

许正平律师代表上市公司、私人企业、金融机构及私募股权公司参与到一系列在中国的跨国商业交易，着重于并购、合资企业和融资（包括房地产融资）。许律师会就技术许可向客户提供法律服务，曾就多个高端酒店、私营俱乐部和酒店公寓项目向业主、开发商以及管理人提供咨询性意见。许律师被钱伯斯全球评为领先律师，惯常就外商在中国投资及中国法律市场趋势等问题撰写文章并发表演讲。



Matthias Vanhullebusch (马天赐)

EDUCATION

October 2007 – June 2011

LL.D. (Doctorate in Law with Highest Honours)

School of Oriental and African Studies, University of London

October 2006 – August 2007

LL.M. (Adv.) Public International Law with International Criminal Law Specialisation

Leiden University and Grotius Centre for International Legal Studies

September 2003 – September 2005

LL.M. with Commercial Law Specialisation (Licence en Droit)

Université Libre de Bruxelles, Freie Universität Berlin, and Humboldt-Universität zu Berlin (Erasmus, Wintersemester 2004-2005)

LL.B. (Candidate Juris)

(September 2000 – June 2003)

Vrije Universiteit Brussel

现代日本的合同法

Contract Law of Modern Japan

课程基本信息 Course Information						
课程代码 Course Code	LA26068	学时 Credit Hours	16	学分 Credits	1	
课程名称 Course Name	现代日本的合同法 Contract Law of Modern Japan					
授课语言 Language of Instruction	日文、英文、中文					
开课院系 School	凯原法学院					
先修课程 Prerequisite						
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail		
	大村敦志	教授	东京大学法学院	a_omura@mtg.biglobe.ne.jp		
课程简介 Description	<p>日本民法典已有百年历史，民法领域的研究亦有深厚的积淀，对我国民事立法以及民法学科的理论研究一直有着深远影响。从 2006 年起，日本着手对其民法典的债权法部分进行修改。在经过反复的讨论和修改后，最终于 2015 年向国会提交了法案。目前，该法案正在接收国会审议。日本民法典的修改，是对其百年审判经验和学术成果的总结，是在现代社会中大陆法系民法发展的一个重要事件，将对东亚地区民事法律的发展有着重要影响。学习日本民法、了解其最新发展动向，对增加学生的民法知识和素养、开拓学生的学术视野具有十分积极的作用。尤其是在我国也正致力于民法典编纂的大背景下，这一课程的意义愈加凸显。</p> <p>本课程为本院首次开设，特邀日本著名民法学家、日本东京大学法学院副院长大村敦志教授前来我院授课。大村教授在民法各领域著作颇丰，还作为核心成员直接参与了日本民法典的修改工作。在本课程中，大村教授将以民法典中的合同法部分为中心，系统讲授如下内容：现行日本民法典中合同法部分的体系框架和主要内容、日本有关合同法的审判经验、重点案例讲解和近期判例的特征分析、民法典修改的过程和最新动向、合同法理论研究中的前沿问题，日本民法的新发展可为中国民法典编纂带来的经验，等等。本院拟结合课堂讲授和师生互动交流的方式开展课程，并安排具有留学日本经验的民法专业教师作为随堂翻译和教学辅助，为课程的顺利开展提供有力保障。</p>					
课程教学大纲 Course Syllabus						
教学安排 Syllabus	教学内容			授课学时	教学方式	授课教师
	第一章 日本民法概论					大村敦志

	第二章 日本民法（债权法）的修改			大村敦志
	第三章 日本合同法			大村敦志
	第四章 日本合同法领域的研究进展			大村敦志
	第五章 日本合同法和中国民法典编纂			大村敦志
考核方式 Grading	撰写小论文			
教材或参考资料 Textbooks & Other Materials	(1) 大村敦志『新基本民法 1 総則編』（有斐閣、近刊） (2) 大村敦志『新基本民法 4 債権編』（有斐閣、2016） (3) 大村敦志『新基本民法 5 契約編』（有斐閣、2016） (4) 大村敦志『民法改正を考える』（岩波書店、2011）			

中国的现代化：现代性叙事中的交通问题

Modernizing China: Mobility in the Discourse of Modernity

课程基本信息 Course Information					
课程代码 Course Code	SH26008	学时 Credit Hours	16	学分 Credits	1
课程名称 Course Name	中国的现代化：现代性叙事中的交通问题 Modernizing China: Mobility in the Discourse of Modernity				
授课语言 Language of Instruction	英语 English				
开课院系 School	科学史与科学文化研究院/School of History and Culture of Science				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	Gijs Mom	Associate Professor emeritus	Eindhoven University of Technology	g.p.a.mom@tue.nl	
课程简介 Description	<p>本课程以一个非常新颖的视角来了解中国现代化过程的交通问题。该课程将带领学生追溯改革开放以来中国机动车工业与文化的兴起。尽管这些车辆的统计分布、它们的基础设施分布及生产量等信息较易获得，但中国百姓购买和使用它们的动机仍然不明确。换句话说，汽车技术史对“用户侧”的关注还很不够。西方的历史研究表明，探索此类动机的一种途径是研究文学文献以及其他艺术形式，比如电影及歌曲。因此，本课程的第一部分是了解西方机动车的兴起与延续，以及通过上述文艺形式对其做出的分析。第二部分则致力于将这种分析方法运用于中国汽车史。通过该课程的学习，可以达到四个不同层面的目标：第一，让学生认识到现代文化是一种“流动的文化”，其关键特点是“流动性的扩大”；第二，使学生学会在这个观点下分析文化形式（小说、诗歌、歌曲、电影）；第三，对中国现代汽车工业史有一个较为系统的了解；第四，让学生体验科学史方法运用于一个现代话题的可能性，并展示该学科的某种现代意义和实用性一面。</p> <p>This course traces the emergence of a car and motorcycle culture in China since the start of the reform and opening up period. While the statistical spread of these vehicles, as well as the spread of their infrastructure (especially the road network) is quite well known, it is not clear which motives drove (and drive) Chinese citizens to purchase and use them. Historical research in the West has shown that one way to get a grip on these motives is to study belletristic literature and other artistic utterances such as films and songs. The first part of the course, therefore, is a study of the emergence and persistence of the car and motorcycle in the West. The second part of the course is dedicated to the analysis of Chinese sources. Students are required to analyze one novel and one other source (a song, a movie), and report this in class. As an introduction to this second part, the professor will analyze a dozen Chinese novels that have been translated into English.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	第一讲：现代化与交通技术的传播	2	讲课 讨论	Gijs Mom
	第二讲：中国的现代化：道路建设与车辆普及	2	讲课 讨论	Gijs Mom
	第三讲：中国自行车工业与发展	2	讲课 讨论	Gijs Mom 徐 涛
	第四讲：对流动性的分析实践——引论	2	讲课 讨论	Gijs Mom
	第五讲：对流动性的分析实践——五四时期的汽车文学	2	讲课 讨论	Gijs Mom
	第六讲：对流动性的分析实践——当代中国文学	2	讲课 讨论	Gijs Mom
	第七讲：对流动性的分析实践——大众文化	2	讲课 讨论	Gijs Mom
	第八讲：讨论：流动性视角下的现代化中国	2	汇报 点评 讨论	Gijs Mom 薛 凤
	考核方式 Grading	出勤+课堂表现+口头汇报+书面报告		

任课教师介绍

姓名: dr.drs.ing. Gijs Mom
职称: Associate Professor emeritus
单位: Eindhoven University of Technology
Email: g.p.a.mom@tue.nl



Education

- PhD: 4 November 1997, Eindhoven University of Technology (TU/e)

Thesis: 'Geschiedenis van de auto van morgen: cultuur en techniek van de elektrische auto' [History of the car of tomorrow; culture and technology of the electric vehicle] (supervisor: prof.dr.ir. H.W. Lintsen)

- Bachelor of Science in Automotive Engineering: 15 July 1982 (*cum laude*), HTS-Autotechniek, Hogeschool van Arnhem en Nijmegen (4 year course)
Thesis: History and Technology of Alternative Fuels

- Master's ('doctoraal') Radboud Universiteit Nijmegen: 30 January 1975
Thesis: History and Sociology of Literature

Research Focus

Gijs Mom teaches at and is Programme Director for Mobility History at Eindhoven University of Technology, the Netherlands. He is co-founder of the International Association for the History of Transport, Traffic and Mobility (T²M) and was its President until September 2008. He is Chair of the Board of Directors of the European Centre for Mobility Documentation (ECMD) in The Netherlands. He is editor of *Transfers; Interdisciplinary Journal of Mobility Studies* (Berghahn Books)

- His research focus is the history of technology, most particularly the history of mobility.
- He combines literary analysis of novels, songs, and film as historical sources, with a socio-cultural approach of the modern world.
- His current book project has the tentative title: *World Mobility History, 1945-2010*

英语学术交流口语

Spoken English for Academic Purposes

课程基本信息 Course Information					
课程代码 Course Code	FL26030	学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	英语学术交流口语 Spoken English for Academic Purposes				
授课语言 Language of Instruction	英语				
开课院系 School	外国语学院				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	赵鸿雁	讲师	外国语学院	hongyan_z@sjtu.edu.cn	
课程简介 Description	<p>本课程的目的是提高学生用英语进行学术交流的能力,以适应国际会议、学术报告、研讨会及学术讨论等的需要。课程将通过个人演讲、小组讨论、模拟场景、角色扮演等丰富的教学活动,增加英语环境中的操练机会,注重英语文化素养的培养,以锻炼学生各种交流场景中的主动性、灵活性和沟通技巧。</p> <p>This course aims to enable students to speak English effectively in the academic contexts they will encounter in their studies and future careers, such as attending conferences, making presentations, leading seminars, and participating in discussions. The main emphasis is on improving students' confidence and competence in speaking English in these contexts. The teaching method is a combination of interactive lectures, presentations, discussions, and role-plays.</p>				
课程教学大纲 Course Syllabus					
教学安排 Syllabus	教学内容	授课学时	教学方式	授课教师	
	课程介绍	2	讲座、练习	赵鸿雁	
	演讲的准备	2	讲座、讨论	赵鸿雁	
	演讲技巧 I	2	讲座、练习	赵鸿雁	
	演讲技巧 II	2	讲座、练习	赵鸿雁	
	演讲的结构	2	讲座、讨论	赵鸿雁	
	演讲的语言风格	2	讲座、练习	赵鸿雁	

	演示文稿的制作	2	讲座、讨论	赵鸿雁
	描述图表	2	讲座、练习	赵鸿雁
	学生演讲	2	随堂考查	赵鸿雁
	学生演讲	2	随堂考查	赵鸿雁
	学术会议	2	讲座、练习	赵鸿雁
	学术讨论	2	讲座、练习	赵鸿雁
	研讨会	2	讲座、练习	赵鸿雁
	介绍实验室	2	讲座、练习	赵鸿雁
	社交礼仪	2	讲座、练习	赵鸿雁
	工作面试	2	讲座、练习	赵鸿雁
考核方式 Grading	1. 课堂表现 (70%): (a) 考勤 (10%): 每次缺勤将从学期总分中扣除 1 分; (b) 作业 (20%): 完成两次书面作业; (c) 口语活动 (40%): 课堂上演讲、讨论、练习等口语活动的表现。 2. 期末笔试 (30%)			
教材或参考资料 Textbooks & Other Materials	《学术交流口语》，赵鸿雁、王冬燕、杨惠玉、李晓红，上海交通大学出版社，2014。ISBN: 978-7-313-11023-7			

任课教师介绍

姓名：赵鸿雁

职称：讲师

单位：上海交通大学外国语学院

Email: hongyan_z@sjtu.edu.cn



教育背景：

- 2000.5 — 2003.12 美国佛罗里达大学计算机信息科学与工程系 硕士
- 1989.9 — 1994.6 华中科技大学科技英语系 学士

研究方向：

- 英语教学、语料库语言学

“海洋法理论与实践”研修班 Theory and practice of marine law workshop

课程基本信息 Course Information					
课程代码 Course Code		学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	“海洋法理论与实践”研修班 Theory and practice of marine law workshop				
授课语言 Language of Instruction	英语				
开课院系 School	凯原法学院				
先修课程 Prerequisite					
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	薛桂芳	教授	上海交通大学凯原法学院	juliaxue@sjtu.edu.cn	
	Warwick Gullett	教授	University of Wollongong	wgullett@uow.edu.au	
课程简介 Description	<p>“海洋法理论与实践”研修班由上海交通大学海洋法治研究中心和上海交通大学极地及深海发展战略研究中心主办，以建设成为国际化、开放式的国内一流海洋法主题暑期研修班为目标，旨在为诸多青年学者、优秀学生提供良好的海洋法律与政策发展研究平台，实现加强校际学习交流、共享优质教育资源、培养优秀海洋专业人才的目的。课程由国际知名海洋法研究专家薛桂芳教授和澳大利亚卧龙岗大学教授 Warwick Gullett 承担。课程设置四大主题：“海洋法律与政策”、“北极航运及其环境保护”、“海洋法与北极”以及“蓝色经济的可持续发展：当代海洋资源管理的法治发展”。</p> <p>This Summer Course of Theory and Practice of Marine Law is sponsored by SJTU-Center for Rule of Ocean Law Studies and SJTU-Center for Polar and Deep Ocean Development. It aims to build a first-class international and opening domestic summer course which concentrates on marine law study. This Summer course intends to set up a platform of marine law and policy development research for young scholars, outstanding students, so that it can achieve the purpose of strengthening inter-school learning exchanges, sharing the high-quality education resources and cultivating some outstanding marine professionals. This summer course is taught by famous international marine law experts Guifang Xue and Warwick Gullett. The curriculum is divided into four themes which include ‘Marine law and policy’, ‘Arctic shipping and its environmental protection’, ‘Law of the sea and the Arctic’, ‘Sustainable development of blue economy: the development of rule of law in contemporary marine resources management’.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	“海洋法律与政策”主题课程	8	面授	薛桂芳 /Warwick Gullett
	“北极航运及其环境保护”主题课程	8	面授	薛桂芳 /Warwick Gullett
	“海洋法与北极”主题课程	8	面授	薛桂芳 /Warwick Gullett
	“蓝色经济的可持续发展：当代海洋资源管理的法治发展”主题课程	8	面授	薛桂芳 /Warwick Gullett

研修班教学事宜咨询：

郑洁老师

电话：021-34207499

邮件：zhengjie2014sjtu@hotmail.com

任课教师介绍

姓名：薛桂芳
职称：教授
单位：上海交通大学凯原法学院
Email: juliaxue@sjtu.edu.cn



Education

- 2001.4-2004.12 澳大利亚卧龙岗大学海洋政策中心学习，获博士学位
- 1996.8-2000.7 中国海洋大学水产学院渔业系在职研究生，获硕士学位
- 1986.8-1990.7 青岛海洋大学外语系学习，获文学学士学位

Research Focus

薛桂芳教授专注于国际法学视野下海洋法学相关理论及实践的研究，主要包括海洋法律政策、《联合国海洋法公约》与国家实践、海洋环境法、生物资源保护法、海洋管理及海洋权益等实践问题的研究等。

姓名：Warwick Gullett
职称：教授
单位：University of Wollongong
Email: wgullett@uow.edu.au



Education

- LLB,BA(Hons)Monash University
- PhD Australian National University
- Lecturer at the Australian Maritime College in Tasmania (2001-2004)

Research Focus

- Law of the sea
- Fisheries law
- Marine environmental law

中医药与中国文化

Traditional Chinese Medicine and Culture

课程基本信息 Course Information					
课程代码 Course Code		学时 Credit Hours	32	学分 Credits	2
课程名称 Course Name	中医药与中国文化 Traditional Chinese Medicine and Culture				
授课语言 Language of Instruction	English				
开课院系 School	药学院				
先修课程 Prerequisite	上海交大慕课平台“好大学在线”：彭崇胜《中医药与中华传统文化》 (《Traditional Chinese Medicine and Chinese Culture》)				
授课教师 Instructor	姓名 Name	职称 Title	单位 Department	联系方式 E-mail	
	彭崇胜	副教授	药学院	cspeng@sjtue.du.cn	
	傅磊	教授	药学院	leifu@sjtu.edu.cn	
	孙海英	副教授	药学院	hysun@sjtu.edu.cn	
	徐蓉	讲师	药学院	xurong@sjtu.edu.cn	
课程简介 Description	<p>《中医药与中华传统文化》，这是一门将中医药与中华文化紧密融合的课程。通过本课程的学习，能够了解一些中医药学基本理论、思想和方法，理解中医药的中华传统文化基础及其对中华文化乃至世界文化的贡献。与此同时，学生在完成本门课程后，可以掌握基本的中医药养生保健道理和要领，获取更多中医药专业知识，在提升自我学习能力的同时，实现学以致用。</p> <p>《中医药与中华传统文化》英文版课程采用“混合式教学”方式，分为线上学习和线下翻转两个学习阶段。第一阶段线上课程采取慕课的运行模式，将课程内容按照知识点录制成 5-15 分钟的高清短视频，按节设置测试题，考察学习效果。第二阶段线下学习将进行“翻转课堂”和实践教学。</p> <p>Objective 1: learners shall master the basic concept and knowledge system of TCM, including health keeping with TCM, concept of internal organs and Jing-luo (meridian), drug property and effect of TCM, etc., and apply the TCM knowledge consciously for health keeping and disease prevention in order to be healthy. For example, teach learners a set of simple Tai Chi in classroom teaching that can help learners build body by frequent practicing.</p> <p>Objective 2: learners shall know the ideological feature of TCM and its opinion on life and health problem, such as the Yin Yang and Wu Xing (five elements) theory, attaining a state of harmony, kindheartedness, caring for life etc. to plan their life and to be harmonious and happy.</p> <p>Objective 3: learners can better understand the genes of traditional Chinese culture hidden in the TCM through the leaning of the knowledge and thought of TCM, hence they can master the essence of traditional Chinese culture.</p>				

课程教学大纲 Course Syllabus				
	教学内容	授课学时	教学方式	授课教师
教学安排 Syllabus	Chapter 1: General Introduction of TCM	4	线上慕课	彭崇胜
	Chapter 2: History of TCM	4	线上慕课	彭崇胜
	Chapter 3: Chinese philosophy in TCM	4	线上慕课	彭崇胜
	Chapter 4 TCM model of human life	4	线上慕课	彭崇胜
	Chapter 5 Chinese herbs and their culture	4	线上慕课	彭崇胜
	Chapter 6: Flipped Classroom	4	翻转课堂	彭崇胜 孙海英
	Chapter 7: Academic Seminar	4	学术讲座	傅 磊
	Chapter 8: Practice Teaching	4	实践认知	徐 蓉
	考核方式 Grading	线上学习 占总成绩 50% （视频学习，完成作业） 面授学习 占总成绩 50% （面授出勤 10+ 课堂互动 10+ 总结报告 15+ 口头汇报 15）		
教材或参考资料 Textbooks & Other Materials	上海交大慕课平台“好大学在线”：彭崇胜《中医药与中华传统文化》 （《Traditional Chinese Medicine and Chinese Culture》）			
备注 Notes	《中医药与中华传统文化》英文版课程采用“混合式教学”方式，分为线上学习和线下翻转两个学习阶段。前期需在网完成线上课程。			