



学院新闻

学术活动

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International Summer School on Neural Engineering(ISSNE)

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学院新闻

通知公告

学术活动

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International Summer School on Neural Engineering(ISSNE)

April 28th –June 4th, 2017, Shanghai, China

Introduction and Aims:

Echoing the booming techniques and applications in neural engineering, we propose to organize an international summer school on neural engineering (**ISSNE**) in Shanghai, China, sponsored by IEEE EMBS and hosted by Shanghai EMBS chapter. This summer school will be hosted **biennially**, in coordination with other summer schools sponsored by EMBS, e.g. international summer school on medical devices and biosensors, international summer school on biomedical imaging, international summer school on biomedical signal processing, and international summer school on bio-complexity. By introducing ISSNE, EMBS summer schools will cover more complete research areas in biomedical engineering, and be more geographically balanced.

The proposed ISSNE will provide a platform to have leading scientists and experts in neural engineering to give **lectures** and organize **workshops** to the graduate students, postdoctoral fellows and junior faculty members who will be the next generation leading researchers in neural engineering community. ISSNE provides a unique opportunity to interact with top international scientists and to network among themselves.

ISSNE is going to be co-sponsored by the IEEE EMBS, Shanghai Jiao Tong University (SJTU) and Ministry of Education of China. A **standing steering committee** will be directing the curriculum, syllabus, course evaluation, student admission, and faculty selection. This committee will consist of leading neural engineering scientists and engineers from Johns Hopkins University, University of Minnesota, Northwestern University, Politecnico di Milano, Tsinghua University and Shanghai Jiao Tong University.

Every ISSNE will focus on one or several topics in neural engineering each year within one-week intense **Lectures, Seminars** and **Discussions**. The Lectures will provide the training/tutorial courses on the fundamental theories and techniques in neural engineering, and the Seminars will present cutting edge studies in neural engineering by those leading experts, while the Discussions sessions will bring the students and the faculty to round-table meetings with face-to-face interaction of brainstorming events.

The ISSNE will use the unique platforms as its teaching support, i.e. the huge clinical hospital system of Shanghai Jiao Tong University. With twelve top-ranked affiliated general and specialized hospitals, and the largest outpatient number and hospital admission number in China, SJTU has its uniqueness in bench-to-bed clinic-driven research and teaching. Students in ISSNE will have face-to-face meeting and discussions with the experts from the departments of neurology, radiology and neuroimaging centers, and get the opportunities of onsite training on translational neural engineering in these affiliated divisions.

Sponsors:

IEEE Engineering in Medicine and Biology Society
IEEE EMBS Shanghai Chapter

Shanghai Jiao Tong University
National Natural Science Foundation of China

Location:
Shanghai, China

Faculty/Invited Speakers:
TBD

Date:
April 28th –June 4th, 2017

Organizing Committees

Standing Steering Committee
International Scientific Committee
Local Organizing Committee

Application, Registration & Fellowship and Cost

(1)All applicants should submit the following materials to secretary of the summer school, Ms Li Shang (shangli@sjtu.edu.cn) .

- a. A complete CV
- b. Application form
- c. Motivation statement
- d. Proof of student status (Certificate or letter signed by the department head or a copy of the student ID card). A scanned version (PDF or JPG) sent by e-mail will do fine.

If applying for travel award, please also submit:

- e. Travel award application form
- f. A reference letter from the supervisor(s)

All students of the summer school will be selected from the applicants by the **standing steering committee**; Selection will be based on academic merit, research potential and motivation.

(2)The summer school will cover all local accommodation cost for arranged hotels, lunch, diner, sightseeing, transportation during the summer school period; The students will afford their own travel to and from Shanghai.

(3)Registration fee: TBD. The registration fee covers the course materials, refreshments;

Important Dates:

Opening for Application: from Now to March 5th, 2017

Announcement for acceptance: March 15th, 2017 to April 15th, 2017

Program (Draft)

Topics:

Notes: Each half day has one lecture or two seminar sessions.

Lectures: The first two days of the school will include four lectures, with 4 hours of 45min each; Each lecture will cover both a comprehensive start-of-art technique review and grand challenges in a specific area in neuroimaging or brain & neural interface.

Seminars: Following lectures are two days of seminars of 2 hr each (including presentation and discussion). The seminar talk will present the most cutting edge research in neuroimaging, brain and neural interface.

Posters: All students will be encouraged to present a poster in the school; the school will have two poster evenings. The students themselves will participate the scoring of the poster presentation, and the best posters will be awarded

A draft schedules are listed in the table below; the order of the lectures and seminars may be subjected to change according to the faculties' itinerary schedule.

	May 28	Registration, Opening, Reception	Lecturer/Speaker
Lectures	May 29 Morning	L1: Brain Computer Interface	TBD
	May 29 Afternoon	L2: Neuroimaging and source localization: Principles, Applications and Advances	TBD
	May 29 Morning	L3: Optical Neurovascular Imaging, Principles and Applications	TBD
	May 29 Afternoon	L4: Physiology for Visual Prosthetics	TBD

Posters/ Social	May 29 (Mon) Evening	Poster Presentations	TBD
		Happy Hour	
Seminars	May 30 Morning	S1: functional connectivity in mental disorders S2: High-Resolution LSI	TBD
	May 30 Afternoon	S3: DTI in Depression S4: Translational Neuroimaging	TBD
	May 31 Morning	S5: Neuromulation for epilepsy: From in-vitro experiments to the clinic S6: Neural Modeling	TBD
	June 1 Afternoon	S7: Peripheral Nerve Interface S8: dexterous prosthetic hand	TBD
Social Activity	May 31 Evening	Happy Hour	TBD
	June 1 Evening	Acrobatics Show (Shanghai Era Entertainment)	TBD
Lab Visits	June 2 Morning	V1: Philips East Asia Research Center	TBD
	June 2 Afternoon	V1: Shanghai Synchrotron	TBD
	June 3 Morning	V3: Yangguang Rehab Center	TBD
	June 3 Afternoon	V4. Micro-PET/CT Imaging Center at SJTU	TBD
Fairwell Dinner	June 3-Evening	Farewell Dinner Poster Award Announcement	TBD
Close	June 4	Sightseeing	TBD

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