

国际临床电生理联盟脑电时空分析 Guidelines 研讨会暨 第五届国际神经信息研讨会 (第 3 轮通知)

由国际临床电生理联盟(IFCN)与电子科技大学联合主办, 电子科技大学生命科学与技术学院、信息医学研究中心、神经信息教育部重点实验室与四川省认知科学学会联合承办的国际临床电生理联盟脑电时空分析 Guidelines 研讨会暨第五届神经信息国际研讨会定于 2017 年 9 月 24-26 日(24 日报到, 25-26 日会议)在四川省成都市电子科技大学举办, 现将会议事项通知如下。

一、会议内容

本次会议包括两部分:

第 1 部分由 Guidelines 编写专家组邀请的专家于 9 月 25 日就一些关键问题(Controversies)进行研讨, 第 2 部分由中国相关专家于 9 月 26 日围绕神经信息相关问题进行研讨, 具体日程见附件 1, Guidelines 撰写专家和内容目录见附件 2。

二、部分与会专家名单

中国专家:

王玉平, 首都医科大学宣武医院教授, 神经内科主任(中国睡眠研究会副理事长, 中华神经病学学会肌电图与临床神经电生理学组副组长), 临床脑电

罗跃嘉, 深圳大学教授, 脑疾病与认知科学中心主任, 杰青, 认知脑电

周仁来, 南京大学教授, 心理学系主任, 认知脑电

陈华富, 电子科技大学教授, 杰青/长江, 多模态脑成像

徐 鹏, 电子科技大学教授, 优青, 脑电与脑网络

丛丰裕, 大连理工大学教授, 脑电信号处理

俞祝良, 华南理工大学教授, 脑电逆问题

李海芳, 太原理工大学教授, 脑信息与情感计算

雷 旭, 西南大学教授, 人格与认知教育部重点实验室副主任, 同步脑电磁共振

李 凌, 电子科技大学教授, 认知脑电

夏 阳, 电子科技大学医学院教授, 动物电生理

尧德中, 电子科技大学教授, 杰青/长江, AIMBE Fellow, 脑电与脑信息

外国专家（按首字母排序）：

Claudio Babiloni, University of Rome, Italy

Jaeseung Jeong, Korea Advanced Institute of Science and Technology, South Korea

Katarzyna Blinowska, University of Warsaw, Poland

Mark Hallett, National Institutes of Health, USA

Pedro Valdes Sosa, University of Electronic Science and Technology of China, China/Cuban
Neuroscience Center, Cuba

Robert Ostenveld, Radbound University, Netherlands

三、会议费用

非学生 2000 元，学生 1600 元。

以上费用推荐以汇款方式支付，会议报到现场可刷卡（不收现金）。汇款转账信息如下：

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特别注意：电子科技大学本校参会人员请联系组委会开具内部结算单，切勿直接转账。

四、会议安排

报到注册：

9 月 24 日 14:00-19:00，在电子科技大学清水河校区**综合楼**一楼大厅报到注册（该处离西门较近）；9 月 25 日 8:00-11:00，在电子科技大学清水河校区**电科院大楼**一楼大厅报到注册（该处离西二门较近）。

正式会议：

9 月 25 日-26 日，在电子科技大学清水河校区**电科院大楼**一楼报告厅举行。

电子科技大学清水河校区地址：成都市高新区（西区）西源大道 2006 号。

五、会议报名及联系方式

请有意参加会议的同行或赞助企业，尽快填写参会回执（附件 3），于 **9 月 20 日**前发送到 cognitivesci@163.com，以便会务安排。

会议联系邮箱: cognitivesci@163.com; 联系电话: 028-61830867

学校周围住宿推荐见附件4, 请尽早预订。

期待与您在成都见!

第五届国际神经信息研讨会组委会
电子科技大学生命科学与技术学院(代章)

2017年9月13日

International Workshop on IFCN guidelines for topographic and frequency analysis of EEG rhythms
-5th International workshop on neuroinformation
UESTC, Chengdu, China

International Federation of Clinical Neurophysiology (IFCN) and University of Electronic Science and Technology of China (UESTC) will organize the International workshop on IFCN guidelines for topographic and frequency analysis of EEG rhythms - 5th International Workshop on Neuroinformation from September 24th -26th, 2017 in Chengdu. The workshop can strength more ties between researchers dedicated to EEG and other neuroimaging techniques, and motivated them to start a long-term collaboration with UESTC. We warmly welcome applicants of young students, postdocs and researchers who are interested in ERPs and other electrophysiological measures in cognitive and clinical studies.

Speakers (in alphabetic order)

Claudio Babiloni

University of Rome, Italy

Dezhong Yao

University of Electronic Science and Technology of China

Fengyu Cong

Dalian University of Technology, China

Jaeseung Jeong

Korea Advanced Institute of Science and Technology, South Korea

Haifang Li

Taiyuan University of Technology, China

Huafu Chen

University of Electronic Science and Technology of China

Katarzyna Blinowska

University of Warsaw, Poland

Ling Li

University of Electronic Science and Technology of China

Mark Hallett

National Institutes of Health, USA

Pedro Valdes Sosa

University of Electronic Science and Technology of China, China/Cuban Neuroscience Center, Cuba

Peng Xu

University of Electronic Science and Technology of China

Renlai Zhou

Nanjing University, China

Robert Ostenveld

Radboud University, Netherlands

Xu Lei

Southwest University

Yang Xia

University of Electronic Science and Technology of China

Yuejia Luo

Shenzhen University

Yuping Wang

Xuanwu Hospital, Capital Medical University, China

Zhuliang Yu

South China University of Technology, China

Time and Venue**Registration:**

September 24th: 2pm-7pm, @ 1st floor of Complex Building, UESTC

September 25th: 8am-11am, @ Diankeyuan Conference Hall, UESTC

Workshop: (Details of the program is in APPENDIX I)

September 25th -26th, @ Diankeyuan Conference Hall, UESTC

The address of UESTC: 2006 Xiyuan Ave., Chengdu, China

For questions, please email to cognitivesci@163.com

附件 1: 会议日程
(APPENDIX I: Program)

Date	Time	Speaker	Title
24-Sep	14:00-19:00	Registration	
25-Sep	9:00-9:30	Opening Ceremony&Pictures	
	THE FIRST SESSION: The resting state EEG rhythms: Neurophysiology and Recording		
	9:30-9:40	Mark Hallett	THE IFCN GUIDELINES
	9:40-10:00	Claudio Babiloni	The neurophysiology of resting state EEG (rsEEG) rhythms
	10:00-10:15	Coffee Break	
	10:15-11:00	Robert Ostenveld /Dezhong Yao	Which reference electrode for investigating rsEEG rhythms? Cephalic, non-cephalic, common average, and laplacian references vs. REST modeling
	11:00-11:45	Fengyu Cong/ Pedro Valdes-Sosa	Which Electrode Montage and Spatial Resolution for rsEEG rhythms? Clinical applications vs. Basic research
	11:45-14:30	Lunch	
	THE SECOND SESSION: The rsEEG rhythms: cortical synchronization and connectivity		
	14:30-15:15	Katarzyna Blinowska/ Pedro Valdes-Sosa	Sensors or sources? Opportunities and limitation of topographical analysis of rsEEG rhythms at Scalp sensors vs. Cortical sources
	15:15-16:00	Robert Ostenveld/ Jaeseung Jeong	Linear or nonlinear measurements? Computation of Linear vs. Nonlinear measurements of rsEEG rhythms
	16:00-16:15	Coffee Break	
	16:15-17:00	Mark Hallett/ Claudio Babiloni	Disease markers or windows on human neurophysiology? Limits and opportunities in the use of the frequency and topographical rsEEG analyses in Clinical applications and Neurophysiology research
	17:00-17:10	Final Remarks	
17:10-18:30	Dinner		
26-Sep	9:00-9:30	Yuping Wang	Unified cognitive brain network delineated by electroencephalographic activity
	9:30-10:00	Yuejia Luo	EEG/ERP studies on emotion and executive function

10:00-10:30	Renlai Zhou	The late positive potential and frontal alpha asymmetry: two neurophysiological markers for emotion regulation
10:30-10:45	Coffee Break	
10:45-11:15	Huafu Chen	Research on the multi-modal neuroimaging of epilepsy
11:15-11:40	Peng Xu	EEG network analysis and its application to cognition and clinics
11:40-12:05	Zhuliang Yu	New solutions on spatial-temporal electromagnetic brain sources estimation
12:05-14:00	Lunch	
14:00-14:20	Haifang Li	Pending
14:20-14:40	Xu Lei	Resting state EEG: inspiration from resting state fMRI
14:40-15:00	Yang Xia	Default mode network studies based on rat electrophysiological
15:00-15:20	Ling Li	The neural mechanisms of visual working memory
15:20-15:30	Coffee Break	
15:30-15:45	Shan Gao	Modular reconfiguration of brain networks underlying word masking
15:45-16:00	Yangsong Zhang	Brain network reconfiguration from rest to task for P300 and SSVEP
16:00-16:15	Jing Lu	The multiple-demand system is involved in musical improvisation: Evidence from an MRI study on composers
16:15-16:30	Shuxia Yao	Oxytocin modulates attention switching between interoceptive signals and external social cues
16:30-16:40	Conclusions	

附件 2: Guidelines 撰写专家和目录
(APPENDIX II: The authors and the contents of the Guidelines)

Version of 21st of April 2017 for Clinical Neurophysiology
International Federation of Clinical Neurophysiology (IFCN) guidelines for topographic and frequency analysis of electroencephalographic rhythms

1) Dr. Claudio Babiloni (Coordinator and expert of linear frequency analysis and topographical source estimation of EEG for clinical applications in dementing disorders)

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7) Dr. Jaeseung Jeong (Korea Advanced Institute of Science and Technology, KAIST)

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Professor of Bio and Brain Engineering, KAIST

Decision neuroscience, Nonlinear brain dynamics, Connectome, Computational Neuroscience, Brain-Robot Interface.

He is one of the most important experts of non-linear and complexity EEG markers for clinical applications.

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8) Dr. Roberto Pascual Marqui (Expert of source analysis of EEG functional connectivity for cognitive neuroscience and clinical applications)

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12) Dr. Fernando Lopes da Silva (Expert of neurophysiological mechanisms generating EEG rhythms in healthy and diseased humans)

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AMERICA

1. Introduction

2. Recording of rsEEG for topographic and frequency analysis

- Preliminary assessment of the subject's condition
- Environmental conditions and instructions to subjects
- Montage of the EEG electrodes for the topographical analysis
- Montage of other sensors for control data collection
- Setting of the rsEEG recording parameters

3. Storage of EEG and control data

4. Visualization of the EEG and control data

- Preliminary data analysis
- Identification of neuropathological rsEEG waveforms

5. Frequency analysis of rsEEG data

- “Synchronization”
- Computation of the rsEEG amplitude/power density spectrum
- Absolute and relative rsEEG amplitude/power density
- Computation of nonlinear features estimating the rsEEG complexity
- Connectivity
- Linear measures of connectivity
- Nonlinear measures of connectivity
- The steps of the connectivity analysis

6. Topographic analysis of the EEG data

- Topographic mapping
- Cortical source mapping
- Estimation of scalp current density and dura surface potential
- Mapping cortical connectivity
- The issue of the cortical tangential sources

7. Management, statistical analysis, and interpretation of the rsEEG variables

- Management of the rsEEG variables
- Statistical analysis of the rsEEG variables
- Interpretation of the frequency and topographical rsEEG variables

8. References

附件 3： 报名回执（ APPENDIX III: Registration sheet）

姓名 Name	性别 Sex	工作单位 Affiliation	职务 Title	手机号码 Cell phone	QQ	邮箱 E-mail

注： 报名回执请于 9 月 20 日前发送到 cognitivesci@163.com
Notice: Please send this registration sheet to cognitivesci@163.com by September 20th.

附件 4：电子科技大学清水河校区附近住宿推荐

1、汉庭酒店

地址：成都市郫县合作路 89 号龙湖时代；步行至学校约 10 分钟；价格：199 元/天（无早餐）；酒店电话：028-69066699

2、芒果酒店

地址：郫县西源大道电子科大清水河校区南门对面，步行至学校约 1 分钟；价格：258 元/天（含早餐）；酒店电话：028-84626888.

3、天府丽都酒店

地址：成都高新西区天润路 777 号(电子科技大学清水河校区西门)，步行至学校约 3 分钟；价格：209 元/天（无早餐）；酒店电话：028-87916777.

4、成都锦熙印象酒店

地址：高新西区西源大道 1101 号(电子科技大学清水河校区斜对面)，步行至学校约 10 分钟；价格：豪华标间 318 元/天，普通标间 288 元/天，普通单间：268 元/天；联系电话：028-87801777.

5、全季酒店（成都高新西区龙湖店）

地址：四川省成都市郫县郫都区合作路 89 号龙湖时代天街 8 栋，电话：028-69008666。

更多酒店信息请查看：<http://dibiao.zhuna.cn/chengdu/xiyuandadao2006hao-db/>