Brain-Computer Interface (BCI)

w o r k s h o p & h a n d s - o n s e m i n a r

Sept 24 - Oct 05, 2012

g.tec medical engineering Austria and local universities from the east coast of the US

BCI research is one of the most fascinating fields in neuroscience. Imagined movement, focused attention, or other mental tasks lead to changes in the brain's activity patterns which can be measured, analyzed and classified. The transformation of such changes into a control signal allows users to communicate or control external devices just by thinking. BCIs are an amazing technology, helping patients who have lost the ability to interact with their environment. This workshop introduces the major methodological approaches, technical issues, application examples, opportunities and limitations, current trends and much more.

This workshop is intended for people interested in learning the new skill of BCI communication and for people who are interested in combining BCI technology with their field of expertise. The workshop introduces the material about human computer interaction, biosignal analysis in off-line and real-time mode, rehabilitation, biomedical and electrical engineering, computer sciences and Virtual Reality. A hands-on workshop will introduce the hard- and software used for research and development, allowing attendees to try a BCI and communicate just by thinking. Participants can perform live experiments such as P300-spelling, motor imagery BCI for rehabilitation and SSVEP control.

program

morning session:

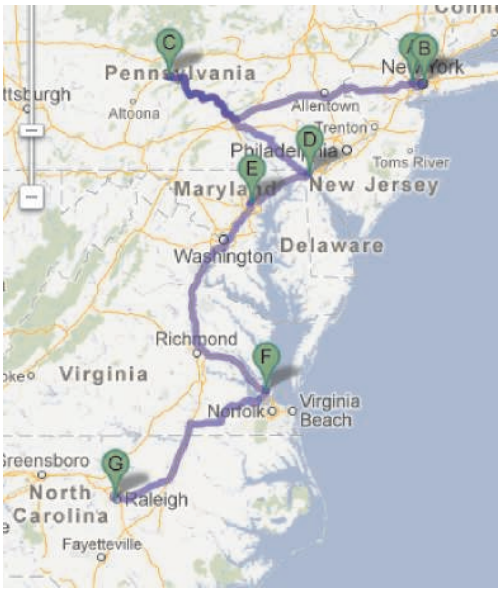
introduction to the four major methodological approaches of BCI

keynote talk on BCI, held by a local professor or researcher (if scheduled)

afternoon session:

hands-on session: BCI live demonstations

final discussios & questions



Sep 24:
Rutgers University
Organizer: Dr. Elizabeth B. Torres

Sep 25:
New York University
Organizer: Dr. Jon Viventi

Sep 27:
Penn State University
Organizer: Dr. Bruce Gluckman, Dr. Steve Schiff

Sep 28:
University of Delaware
Organizer: Dr. Sunil K. Agrawal

Oct 02:
Johns Hopkins University
Organizer: Dr. Nitish V. Thakor

Oct 04:
NASA Langley Research Center
Organizer: Chad L. Stephens

Oct 05:
North Carolina State University
Organizer: Dr. Chang Nam

speakers

Brendan Allison, Ph.D.
BCI researcher

and

Nicholas Anderson, Ph.D.
g.tec Sales and Product Manager

Attendance is free of charge, but registration is required because space is limited.
Please contact vogt@gtec.at at g.tec Austria or
send the registration form via Fax. (Fax-number: 0043 7251 22240 39)

CORTECH SOLUTIONS

Cortech Solutions, Inc.
www.cortechsolutions.com
custsvc@cortechsolutions.com
phone: (910) 362 1143

g.tec medical engineering GmbH
www.gtec.at
office@gtec.at
phone: +43 7251 22240

g.tec GUGER TECHNOLOGIES

Brain-Computer Interface (BCI)

workshop & hands-on seminar

organized in cooperation of g.tec medical engineering Austria and local universities / research centres

registration form

Please fill in and fax back to: +43 7251 22240 39
or send it to vogt@gtec.at

Venue: _____

Date: _____

Name & Degree *(as to appear on conference materials)*:

_____

Institution/Affiliation:

_____

Department:

_____

Business Address:

_____

City: _____ State: _____ Zip: _____

Business Phone: _____

E-mail Address (important for receiving the confirmation)

_____

g.tec medical engineering GmbH
www.gtec.at
office@gtec.at
phone +43 7251 22240
fax +43 7251 22240 39

g.tec GUGER TECHNOLOGIES