

**NEURAL ENGINEERING
DATA CONSORTIUM**

Welcome to the

**IEEE Signal Processing in
Medicine and Biology
Symposium**

**Temple University
Philadelphia, Pennsylvania**

December 12, 2015

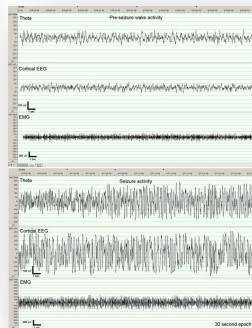
Organizing Committee

- **General Chairs:**
Joseph Picone (Temple)
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- **Conference Co-Chair:**
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- **Program Chairs:**
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- **Industrial Liaison:**
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- **Publications Chair:**
Georgios Lazarou (USA)
- **Local Arrangements:**
Shawn Fagan (Temple)
Tamika Butler (Temple)
Emilie Doyle (Temple)
Claire Durand (Temple)
- **Conference Web Site:**
www.ieeespmb.org/2015

The Neural Engineering Data Consortium



Mission: To focus the research community on a progression of research questions and to generate massive data sets used to address those questions. To broaden participation by making data available to research groups who have significant expertise but lack capacity for data generation.

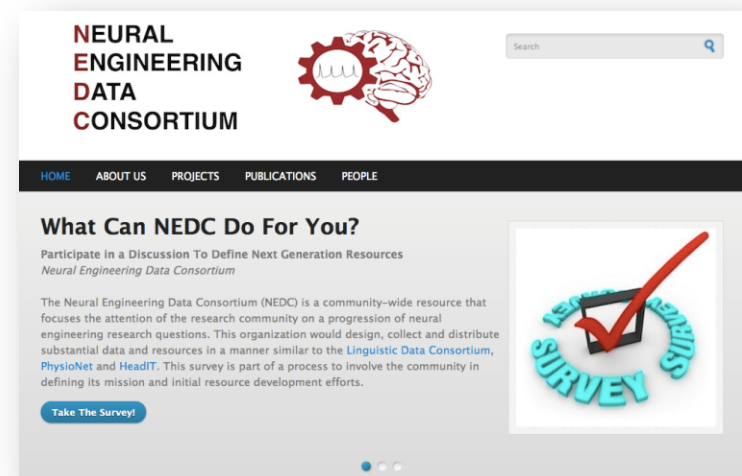


Impact:

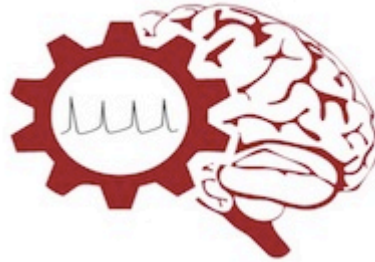
- Big data resources enables application of state of the art machine-learning algorithms
- A common evaluation paradigm ensures consistent progress towards long-term research goals
- Publicly available data and performance baselines eliminate specious claims
- Technology can leverage advances in data collection to produce more robust solutions

Expertise:

- Experimental design and instrumentation of bioengineering-related data collection
- Signal processing and noise reduction
- Preprocessing and preparation of data for distribution and research experimentation
- Automatic labeling, alignment and sorting of data
- Metadata extraction for enhancing machine learning applications for the data
- Statistical modeling, mining and automated interpretation of big data



- To learn more, visit www.nedcdata.org



What Can NEDC Do For You?

Participate in a Discussion To Define Next Generation Resources

Neural Engineering Data Consortium

The Neural Engineering Data Consortium (NEDC) is a community-wide resource that focuses the attention of the research community on a progression of neural engineering research questions. This organization would design, collect and distribute substantial data and resources in a manner similar to the [Linguistic Data Consortium](#), [PhysioNet](#) and [HeadIT](#). This survey is part of a process to involve the community in defining its mission and initial resource development efforts.

[Take The Survey!](#)



Symposium Overview

Time	Room	Session
08:00 AM – 08:30 AM	Atrium	Breakfast
08:30 AM – 09:30 AM	116	Plenary Talk No. 1
09:30 AM – 10:00 AM	Atrium	Break No. 1
10:00 AM – 12:00 PM	116	Lecture Session No. 1
10:00 AM – 12:00 PM	108	Lecture Session No. 2
12:00 PM – 01:00 PM	Atrium	Lunch
01:00 PM – 02:00 PM	Atrium	Poster Session No. 1
02:00 PM – 03:00 PM	116	Plenary Talk No. 1
03:00 PM – 03:30 PM	Atrium	Break No. 2
03:30 PM – 05:30 PM	116	Lecture Session No. 3
03:30 PM – 05:30 PM	108	Lecture Session No. 4
05:30 PM – 05:45 PM	116	Closing Remarks

Applications of Natural Language Processing in Medical Informatics

Dr. Sanda Harabagiu

**Professor, Department of Computer Science
Director, Human Language Technology Research Institute
The University of Texas at Dallas**

Abstract: TBD

Biography: TBD