

EEG/ERP Portal

Overview	Downloads & Documentation	Screenshots	Team
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EEG/ERP portal enables community researchers to store, update, download and search data and metadata from EEG/ERP experiments

Purpose

System for storage and management of EEG/ERP experiments enables clinicians and various community researchers to store, update and download data and metadata from EEG/ERP experiments.

The system essentially offers the following set of features (the set of accessible features depends on a specific user role):

- User authentication
- Storage, update, and download of EEG/ERP data and metadata
- Storage, update and download of EEG/ERP experimental design (experimental scenarios)
- Storage, update and download of data related to testing subjects
- Full text search
- Work in groups, support of user roles
- Publishing articles and news
- Facebook login

License

GNU General Public License

Prerequisites

Web Browser, Internet connection Project development sites:
http://eeg-database.origo.ethz.ch/wiki/eeg_database

Ease of Use

Anyone can use it

Maturity

Intermediate

Operating system

Any

DOWNLOADS

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Topics

[Electrophysiology](#)

Keywords

[data/metadata sharing](#), [ERP](#), [database](#), [experiments](#), [EEG](#), [web interface](#),

Contact person

[Petr Bruha](#)

[Petr Ježek](#)

Members

[Petr Bruha](#)

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External web site

<http://eegdatabase.kiv.zcu.cz/home.html>

Registered: Nov 18, 2010

Last Modified: Mar 06, 2013

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Figure 1: EEG/ERP Portal's website on INCF

PANDORA

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Database analysis and visualization of simulated and recorded electrophysiological data

Purpose
PANDORA is a Matlab Toolbox that makes database management accessible from your electrophysiology project.

See the [Wiki](#) for the news.

PANDORA works by extracting user-defined characteristics from raw neural data (e.g., voltage traces) and creating numerical database tables from them. These tables can then be subjected to further analyses, such as drug and parameter effects, statistical, correlation, and principal components. Publication-ready plots can be produced with an embedded plotting system.

Features:

1. Works offline within Matlab
2. Requires no external software
3. Is object oriented and allows easy extensions
4. Can easily tie with existing Matlab scripts
5. Can query a database as in SQL

See the [Documentation](#), [Wiki](#), and [Images](#) links on this page for more information.

License
Apache Software License

Prerequisites
* Matlab - optional: Matlab Signal Processing Toolbox - optional: Matlab Database Toolbox

Ease of Use
Intermediate

Maturity
Stable

Operating system
Any

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[Computational neuroscience](#)

Keywords
[database interface](#), [spike recognition](#), [data formats](#), [mysql](#), [Neuronal Characterization](#), [spike analysis](#), [electrophysiology](#), [development environment](#), [Signal analysis](#), [linux](#), [neuroinformatics](#), [event detection](#), [OS Independent](#), [matlab](#), [analyze](#), [MATLAB](#), [data analysis](#), [Database](#), [Windows](#), [neurophysiology](#), [spike train analysis](#), [data visualization](#), [database](#), [windows](#), [computational neuroscience](#), [spike processing](#), [Linux](#),

Contact person
[Cengiz Gunay](#)
 Dept. Biology, Emory University

Members
[Cengiz Gunay](#)

External web site
<http://userwww.service.emory.edu/~cgunay/pandora/>

Publications
 Cengiz Günay, Jeremy R. Edgerton, and Dieter Jaeger (2008) Channel Density Distributions Explain Spiking Variability in the Globus Pallidus: A Combined Physiology and Computer Simulation Database Approach. J. Neurosci. 2008 28: 7476-7491; doi:10.1523/JNEUROSCI.4198-07.2008
 Günay C, Edgerton JR, Li S, Sangrey T, Prinz AA, Jaeger D (2009). Database analysis of simulated and recorded electrophysiological datasets with Pandora's toolbox. Neuroinformatics, 7(2):93-111. doi: 10.1007/s12021-009-9048-z.

Registered: Jul 31, 2008
Last Modified: Nov 12, 2012

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Figure 2: Pandora's website on INCF

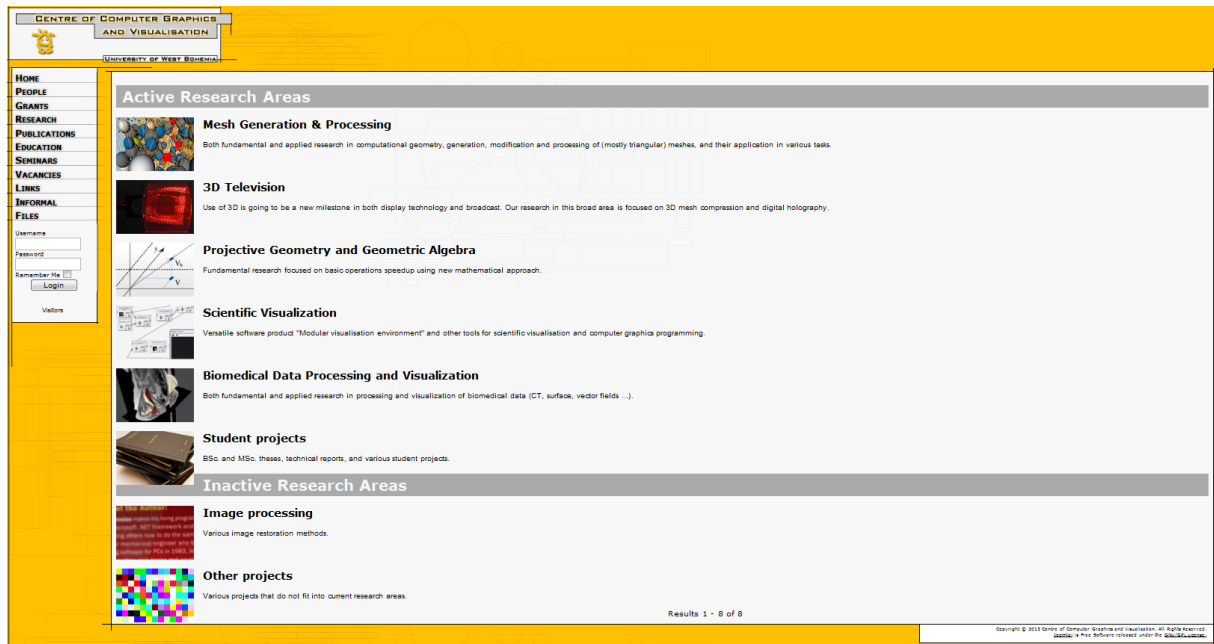


Figure 3: Presentation websites of Centre of Computer Graphics and Visualization

Text-Mining Research Group

University of West Bohemia

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In progress



Automatic Text Summarisation

Authors: Josef Steinberger, Karel Jeřek, Michal Campr, Jiří Hynek


Desc.: Automatic text summarisation using various text mining methods, mainly Latent Semantic Analysis (LSA).



Document Clustering and Linked Data

Authors: Karel Jeřek, Martin Dostál


Desc.: Unsupervised methods for automatic tagging and clustering based on information extraction from Linked data.



Exploration of Semantic Spaces

Authors: Karel Jeřek, Lubomír Krčmář, Miloslav Konopík


Desc.: This work is focused on semantic relations between words and application of these relations in research fields such as information retrieval, machine translation or document clustering.



Knowledge Extraction from Texts

Authors: Karel Jeřek, Martin Zima


Desc.: This work is focused to obtain facts via extraction the latent information from XML documents and its processing via logic program.



Multilingual Sentiment Analysis

Authors: Josef Steinberger


Desc.: Sentiment analysis of news and social media in multiple languages.



SPOT: English-Czech ICT Terminology On-line Review

Authors: Jiří Hynek, Přemysl Brada

Desc.: We hope that SPOT will become an open platform used for discussing controversial computer terms among professionals. The resulting on-line computer dictionary is freely available to the general public, university teachers, students, editors and professional translators.




Social Networks Analysis

Authors: Karel Jeřek, Dalibor Flais, Michal Nykl

Desc.: Application of PageRank algorithm and its modifications on exploration of network structures, particularly citation and coauthorship networks.


Finished



Automatic Plagiarism Detection

Authors: Zdeněk Česka

Desc.: This project focuses on the particular field of automatic plagiarism detection in written text. The main principle of this project is the application of Latent Semantic Analysis in conjunction with word N-grams.



Document Classification

Authors: Jiří Hynek, Karel Jeřek, Michal Toman, Roman Tesář, Zdeněk Česka, Petr Grolmus

Desc.: Use of inductive machine learning methods in classification of short text documents.

Figure 4: Presentation websites of Text-Mining Research Group

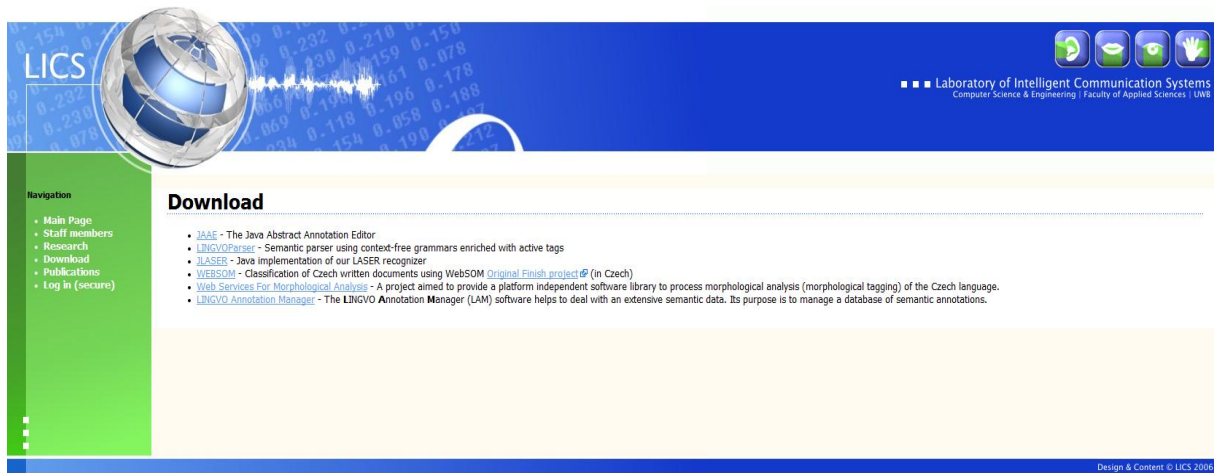


Figure 5: Presentation websites of Laboratory of Intelligent Communication Systems

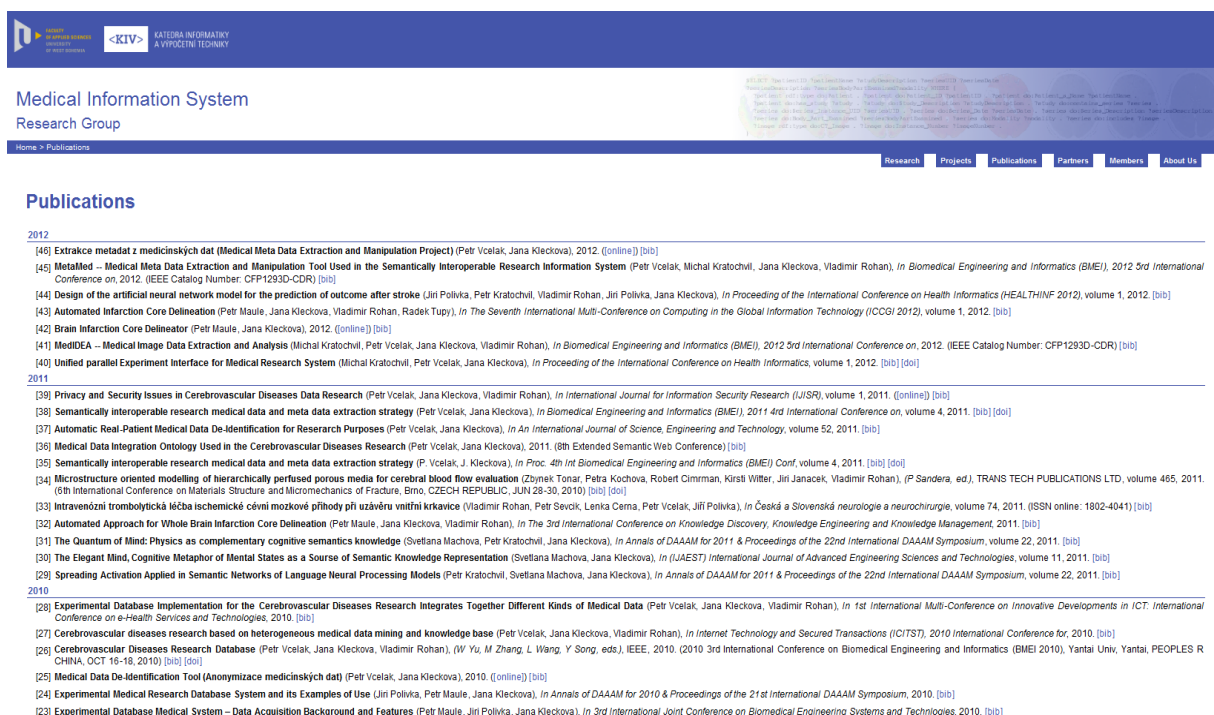


Figure 6: Presentation websites of Medical Information System

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Current Project

Communication modul HART for flowmeters. The project is being solved in cooperation with [Elis a.s.](#) Plzeň.



People

DCSE Staff

- Doc. Ing. Josef Bokr, CSc.
- Dr. Ing. Karel Dudáček
- Ing. Tomáš Koutný, Ph.D.
- Ing. Jiří Ledvina, CSc.
- Ing. Luboš Matějka
- Ing. Ladislav Pešíčka
- Doc. Ing. Stanislav Racek, CSc.
- Doc. Ing. Vlastimil Vavříčka, CSc. (organizing chair)

Ph.D. Students

- RNDr. Libor Dostálek (external)
- Ing. Karel Dudáček, Jr.
- Ing. Martin Kučera
- Ing. Jiří Novotný
- Ing. Libor Pavlas
- Ing. David Šíroky (external)
- Ing. Michael Vetter (external)

Figure 7: Presentation websites of Embedded Systems, Specialized Hardware and Computer Networks



University of West Bohemia | Department of Computer Science and Engineering

Distributed systems
Simulations
Software engineering

DSS > resources

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Software

Software produced as part of our research

- [JaCC – the Java Class Comparator library](#) performs extraction of Java language types from binary (.class) format and type comparison adhering to the Java Language Specification rules.
- [OBCC – OSGi Bundle Compatibility checker](#) is a tool that takes two OSGi bundles (most commonly, subsequent revisions of the same bundle), compares them and returns an indication whether the second one can be substituted for (used instead of) the first one while maintaining type safety with pre-existing clients.
- [OSGi Version Generator](#) is an Ant task which evaluates two bundles for changes, and sets bundle version manifest header of the second bundle according to the OSGi version schema specification. Uses Java type system rules for compatibility evaluation.
- [C-Sim](#) is a tool designed for discrete-time simulations. It has the form of a library written in ANSI C and its most important features are portability and performance. The design of the library is based on the SIMULA language. Latest version of C-Sim is 5.0 and can be downloaded either in the form of a compiled library or C source codes from the web-site.
- [J-Sim](#) is a tool similar to C-Sim, i.e. it supports discrete-time simulation. The tool is written in Java using its object-oriented features. It is available in the form of a package from the web-site.
- [P-Sim](#) is another simulation tool based on C-Sim. It is purely object oriented (as J-Sim) and implemented in the Python language. The current version is 1.0-pre1. The tool requires Python 2.2 or later.

— By Premek Brada on 23 èerven 2009

Related

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Figure 8: Presentation websites of Distributed Systems, Simulations, Software Engineering

Calendar

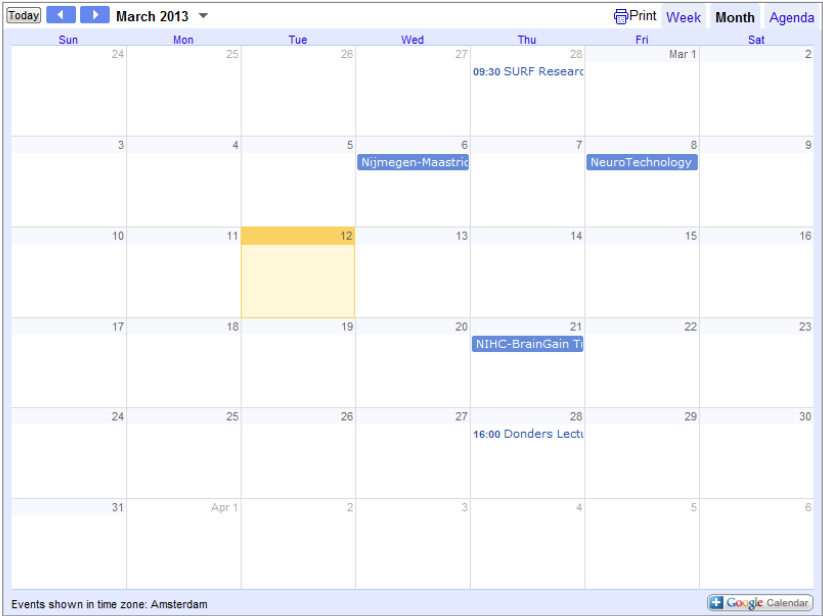



Figure 9: Presentation websites of The Dutch node

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MARCH 2013
 

27TH
 Seminar: Huntington's disease: molecular pathogenesis and therapeutic target validation

Wednesday, 27 March 2013, 4 pm @ Seminar room A/B, Level 6, West Wing, JRH

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APRIL 2013

11TH
 Royal Society of Medicine Symposium on Innovations in Vitreoretinal Surgery

Thursday, 11 April 2013 @ Royal Society Of Medicine, 1 Wimpole Street, LONDON, W1G 0AE

19TH
 Genetics in Retinal Disease meeting

Friday, 19 April 2013 @ Ghent, Belgium


24TH
 Inherited photoreceptor degenerations (IPDs): Are there molecular foundations for a single general therapy?


Wednesday, 24 April 2013, 11 am @ St Edmunds Hall, Oxford

BY MONTH

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Figure 10: Presentation websites of the Nuffield Department of Clinical Neurosciences at the Oxford University



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Dr Rosemary Abbott
 I am currently researching the life-course antecedents of positive functioning using data from the 1946 British birth cohort study. I am also involved in research on the Cambridge City over 75 cohort (CC75C) where I have used Item Response Theory...



Dr Sanja Abbott
 My main interests are in the development of neuropsychological paradigms for fMRI and new fMRI analysis methods and applications.



Miranda L. Abild
 Generally, I study the psychology of human sexuality and gender. I am particularly interested in sexual differentiation, the etiology of sexual orientation, and disorders of sexual development. My current research examines the influence of prenatal...



Dr Julio Acosta-Cabrero
 In developing novel magnetic resonance imaging (MRI) methods of acquisition and analysis to elucidate the mechanisms underlying neurodegeneration in very early dementia.


Dr Richard Adams
 My group is interested in the mechanisms of morphogenesis that shape the early central nervous system. Using zebrafish as a developmental model, we image the movements of many hundreds of cells using time-lapse microscopy. Applying methods of image...


Mr Dwaipayan Adhya
 Autism is a complex neurodevelopmental disorder. Studies have shown that it affects more males than females. Prenatal exposure to sex steroids, especially, testosterone have been shown to be related to development of autism. Epigenetic changes hav...


Dr Fardad Afshari
 I am interested in molecular composition of glial scar following CNS injury and how this can affect the integration and function of transplanted cells or nerve grafts.


Dr Michalis Agathocleous
 I am interested in the mechanisms of cell and tissue growth. We previously investigated developmental signals that regulate retinal growth, and found that Hedgehog signaling causes retinal cells to proliferate faster, but then to exit the cell cycle...


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Figure 11: Presentation websites of the Neuroscience at the University of Cambridge

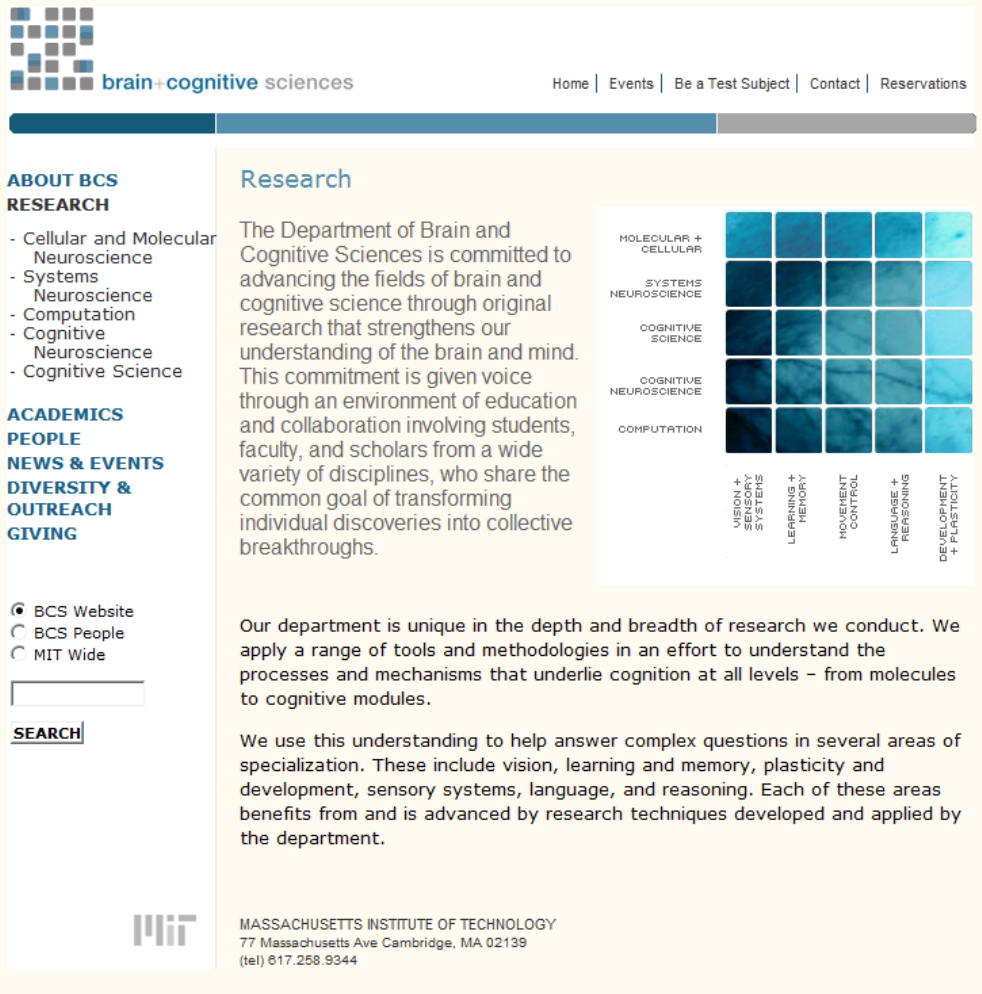
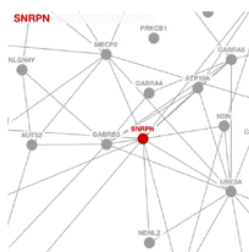



Figure 12: Presentation websites of the Department of Brain and Cognitive Sciences at MIT



Resources

RESOURCE NAME	COMMENTS
Aegis	Public Health Surveillance Tool
AutWorks	View and search through the network of genes implicated in Autism Spectrum Disorder and related neurological diseases.
BEST	SNP tagging
CAGED	Time-series clustering for gene expression.
GrowthCalc	Automated human growth charts
Healthmap	Worldwide, multilingual view of public-health relevant outbreaks,.
HITEx	HITEx (Health Information Text Extraction) is an open-source natural language processing (NLP) software application. HITEx consists of the collection of Gate plug-ins that were developed to solve problems in medical domain, such as principal diagnoses extraction, discharge medications extraction, smoking status extraction and others.
The i2b2 Workbench	Tools for analyzing entire healthcare systems for discovery
Indivo	Personally controlled Health Record
MAPPER	Identifies transcription factor binding sites
RoundUp	Large-scale database of orthology covering over 220 publicly available genomes. The orthologs are computed using the Reciprocal Smallest Distance (RSD) algorithm.

Figure 13: Presentation websites of the Center for Biomedical Informatics at Harvard University


Neuroscience

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Founding Executive Committee Members:

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[David Farb](#) (Pharmacology and Experimental Therapeutics)

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Figure 14: Presentation websites of the Center for Neuroscience at Boston University