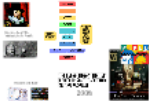


“The End of an Era? The Data Deluge and the Scientific Method: A Case Study in Medicine”

D.S. Oakley
WAVi

Data



Medical Data




Brain Data

Diapers and Beer



EEG: Voltage vs Time



- Sampling from some higher-dimensional "feature space"
- "Values" with a primary frequency (f)
- Dynamic system
- Underlying Differential Equation?

Theological Data

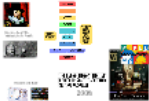


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What next for scientiotheology?
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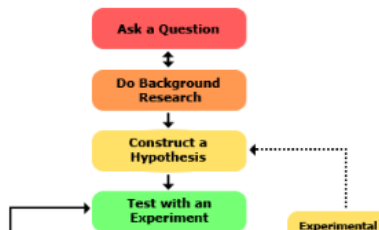
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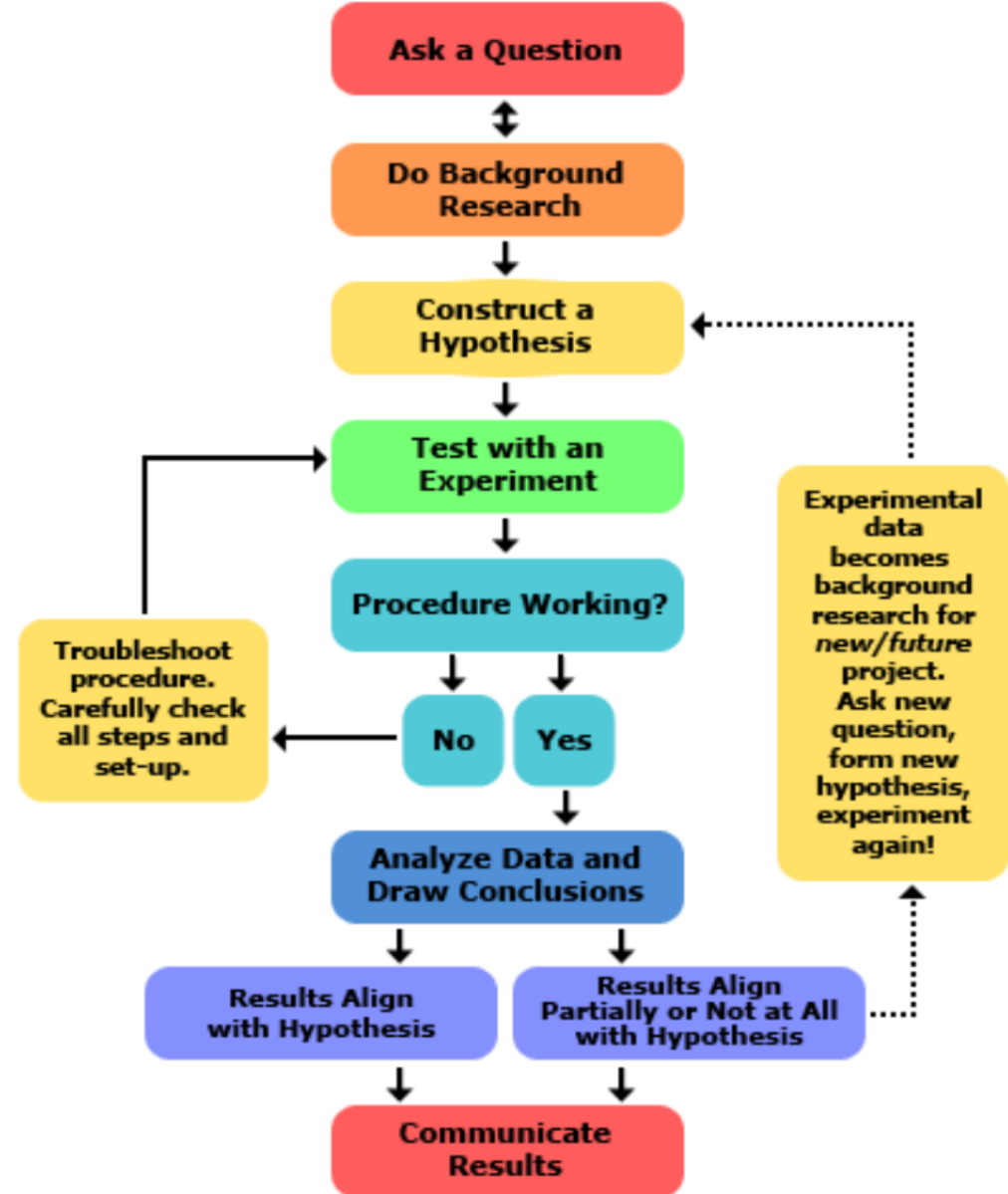
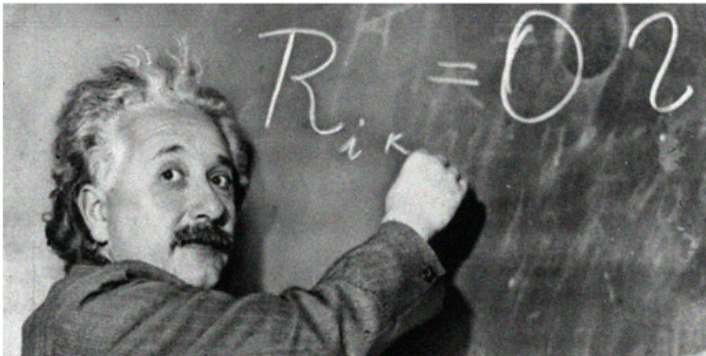
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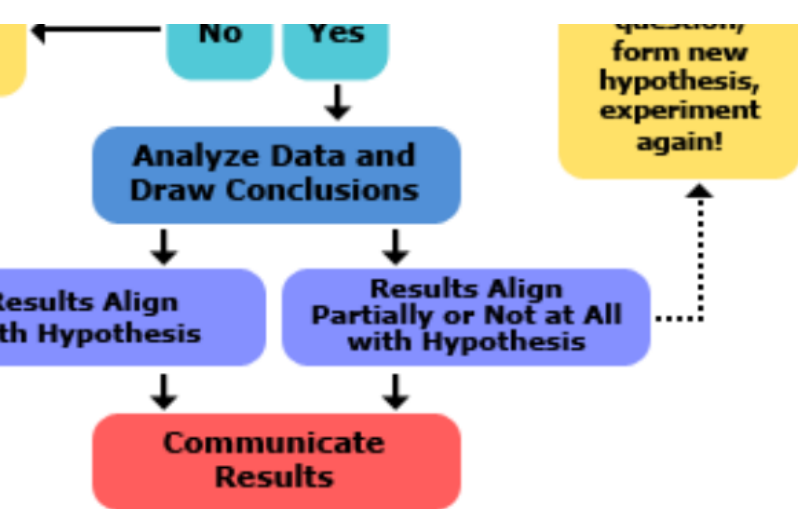
Data





Bacon's Scientific Method (1620-2008)





THE END OF THEORY: THE DATA DELUGE MAKES THE SCIENTIFIC METHOD OBSOLETE

2008



Diapers and Beer



wiseGEEK





THE END OF THEORY: THE DATA DELUGE MAKES THE SCIENTIFIC METHOD OBSOLETE
2008



Medical Data

Healthcare IT News TOPICS | SIGN UP | MAILING LIST

Done deal: Obama signs stimulus package into law

By [Chris Moore](#) | February 18, 2009 | 10:59 AM

President Barack Obama signed the historic 2009 Economic Recovery and Reinvestment Act of 2009 into law on Tuesday, February 18. The law includes provisions for health care, including funding for health care reform, including funding for health care reform, including funding for health care reform.

The law will also provide funding for the Office of the Inspector General, which will be responsible for monitoring the implementation of the law.

"This is a historic day for the United States and for the world," Obama said. "This law will help us get through these difficult times and ensure that we have a strong and secure future for our country."

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Editor's Note: Coverage of the Obama Stimulus Package

Brain Data



Done deal: Obama signs stimulus package into law

By [Diana Manos](#) | February 18, 2009 | 04:25 PM

SHARE 0



President Barack Obama signed the massive \$787 billion American Recovery and Reinvestment Act into law Tuesday at the Denver Museum of Nature and Science. The law sets aside \$19.2 billion for healthcare IT and more than \$100 billion for other healthcare measures, including Medicaid funding and subsidies to help unemployed workers afford healthcare coverage through COBRA.

The law includes a provision to make permanent the Office of the National Coordinator for Health Information Technology. The office had been operating under a presidential executive order since 2004.

"Because we know that spiraling healthcare costs are crushing families and businesses alike, we're taking the most meaningful steps in years towards modernizing our healthcare system," Obama told supporters following the signing. "It's an investment that will take the long overdue step of computerizing America's medical records to reduce the duplication and waste that costs billions of healthcare dollars and medical errors that cost thousands of lives each year."

Better Care. Connected Care.
InterSystems HealthShare.

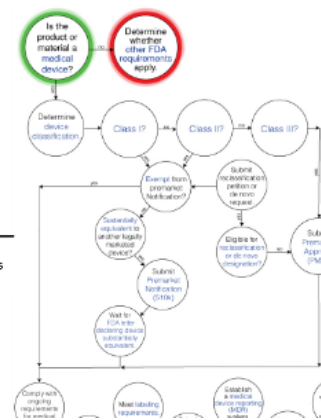
A HealthShare Success Story: Hixny

[Click here to learn more](#)



Physicians' Concerns About Electronic Health Records: Implications And Steps Towards Solutions

Doctors, hospitals rethinking electronic medical records mandated by 2009 law



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The bill also includes a provision to make permanent the Office of the National Coordinator for Health Information Technology. The office had been operating under a temporary executive order since 2004.

"As we know that spiraling healthcare costs are crushing families across the country, as alike, we're taking the most meaningful steps in years toward fixing our healthcare system," Obama told supporters following the passage of the investment that will take the long overdue step of computerizing medical records to reduce the duplication and waste that costs billions of dollars and medical errors that cost thousands of lives each year."



Physicians' Concerns About Electronic Health Records: Implications And Steps Towards Solutions

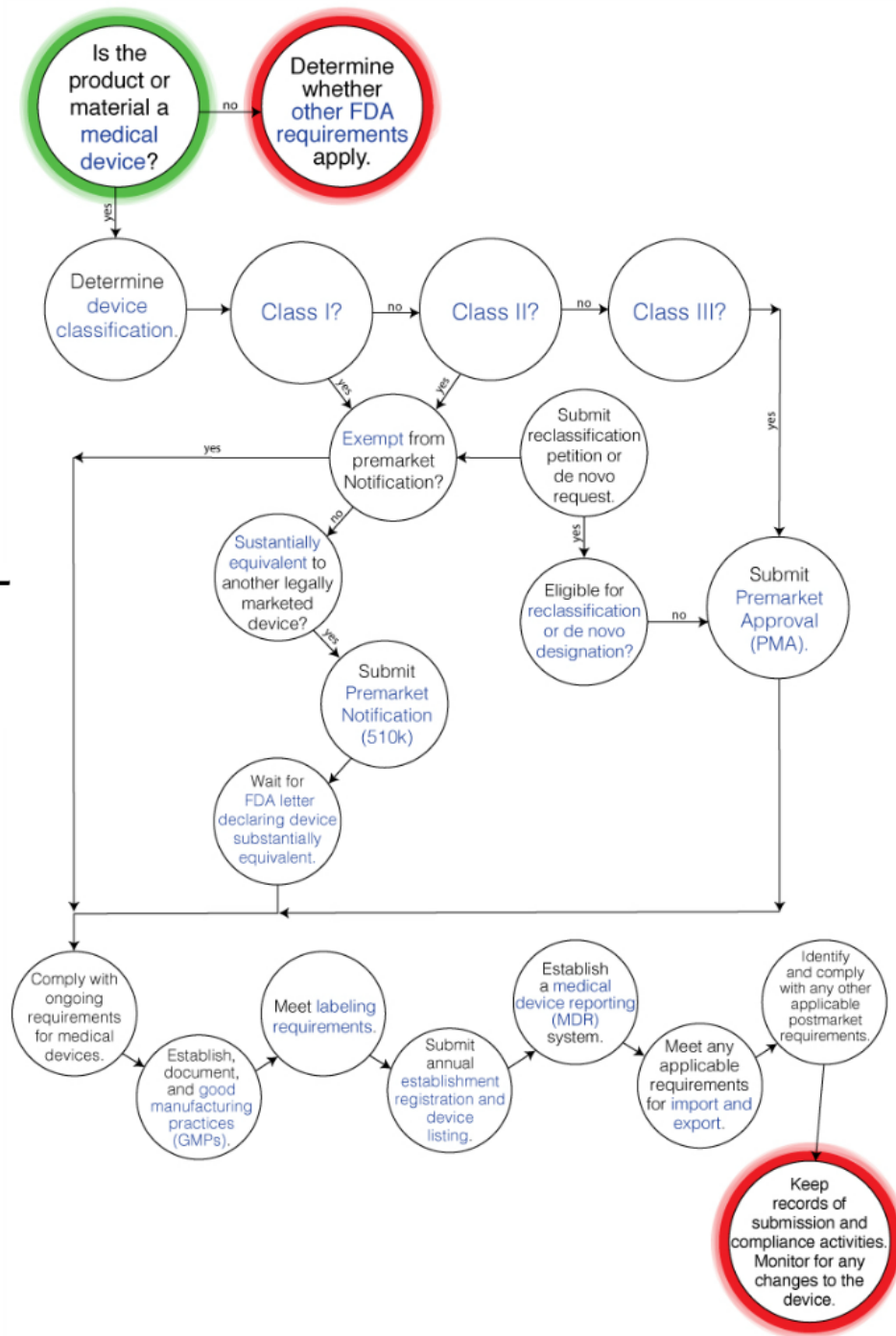
Mark Friedberg, Francis I. Crosson, and Michael Tuttle

Doctors, hospitals rethinking electronic medical records mandated by 2009 law

By RICHARD POLLOCK (@RPOLLOCKDC) • 10/10/14 5:00 AM

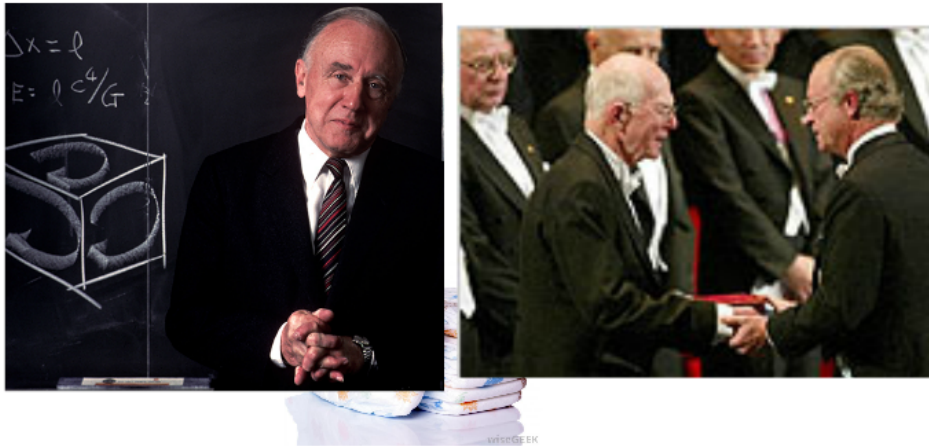
EMR systems generating a new set of problems for nurses

Joan Spitrey
Friday, March 20, 2015



Brain Data

Diapers and Beer



EEG: Voltage vs Time

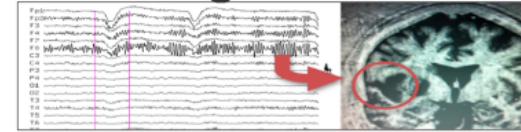


Figure 5.1 EEG traces of a stroke patient (left), with MRI showing damage in the motor cortex area (right). Note the high amplitudes near the damaged areas (F8 and F4).

- Sampling from some higher-dimensional "neuron-space"
- "Waves" with 4 primary frequencies (!)
- Dynamic system
- Underlying Differential Equation?



Theological

EEG: Voltage vs Time

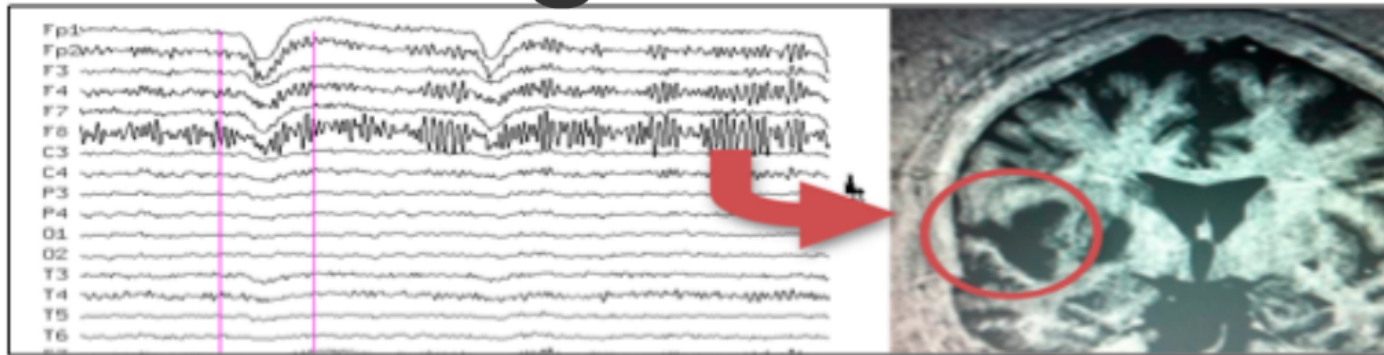


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Can we identify an "ailment space" from EEG?
(geometrical method: abandon causation)



Pendulum

PTSD

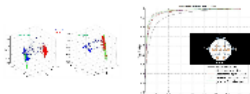
Pre-Symptom Alzheimer's ?



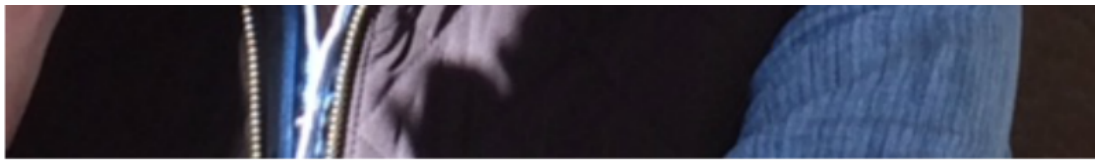
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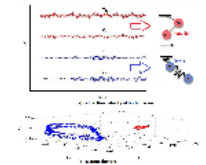
PTSD 

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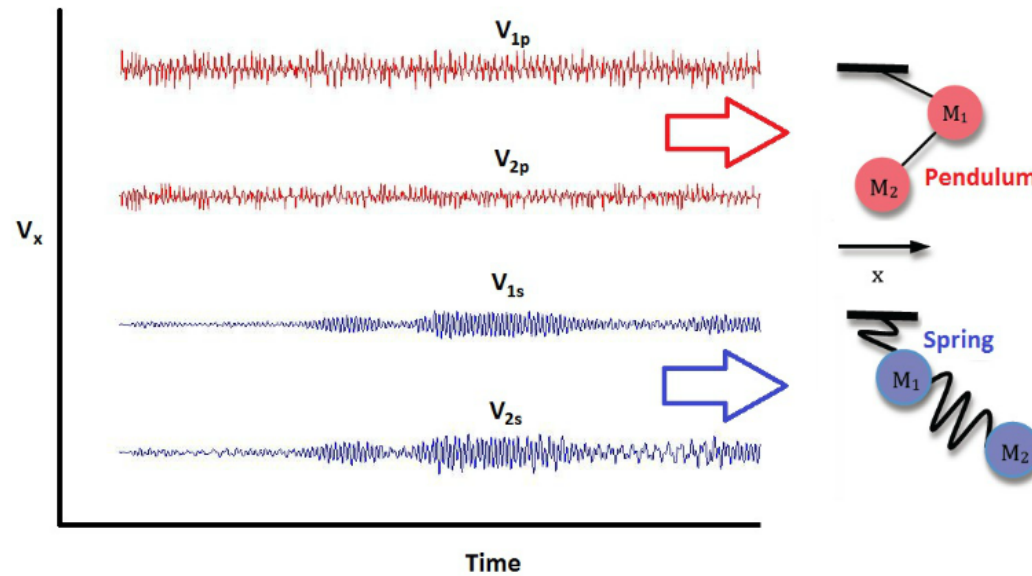


Pendelum

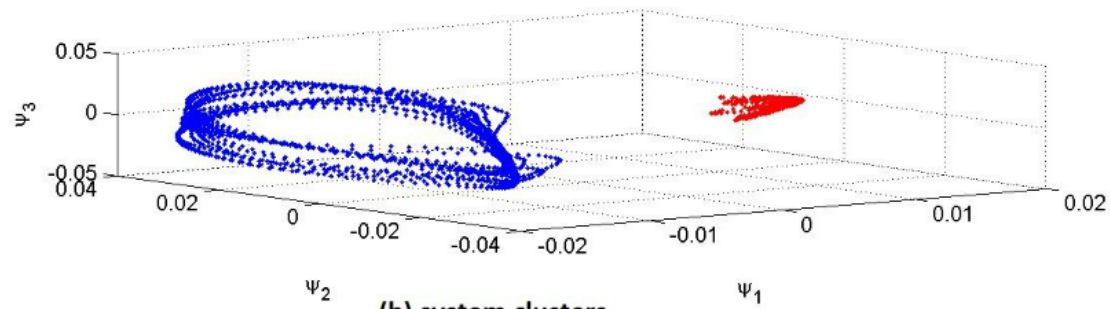
Dimension reduction on dynamic system



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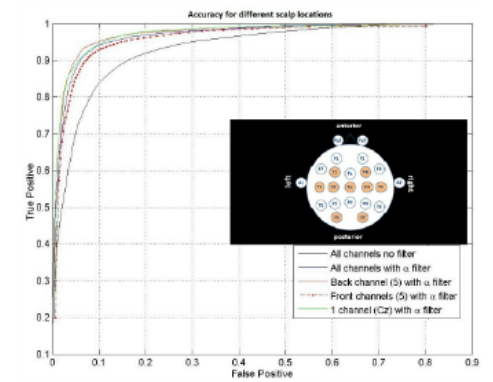
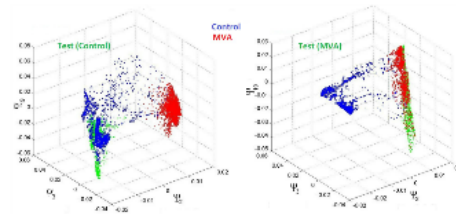


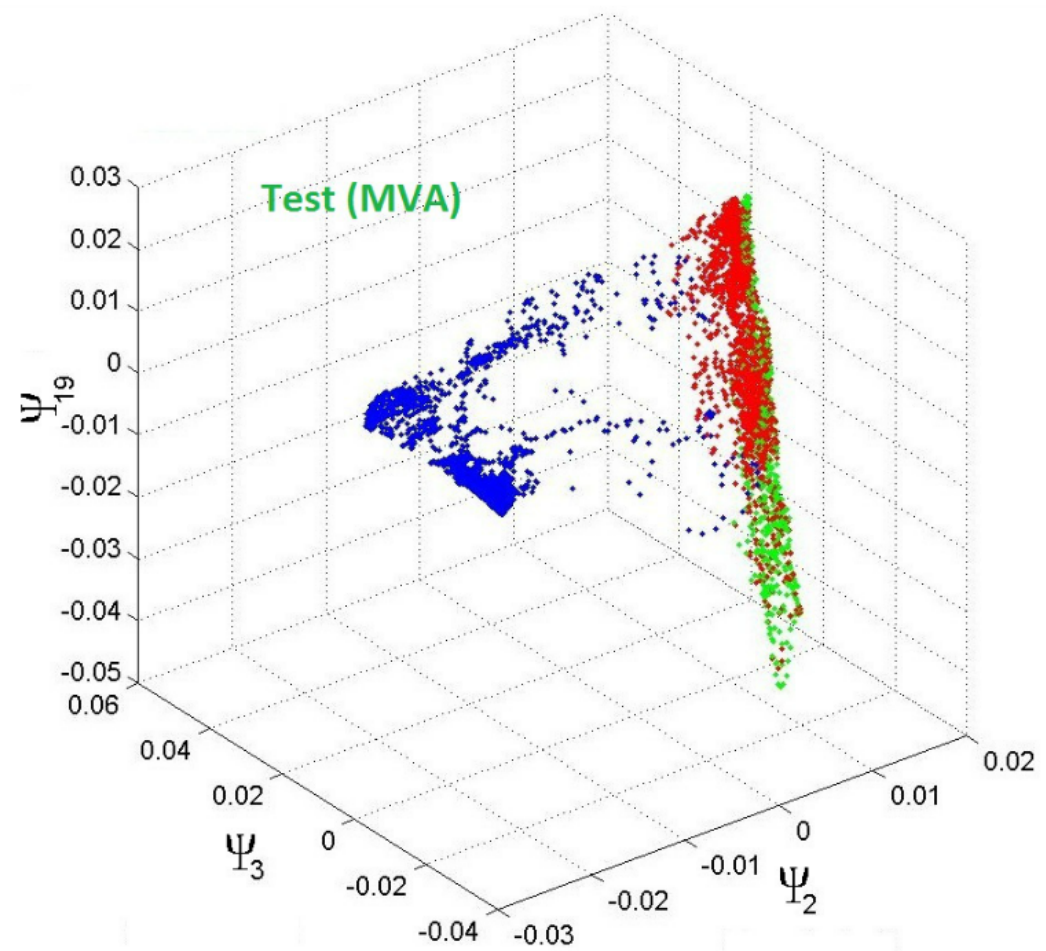
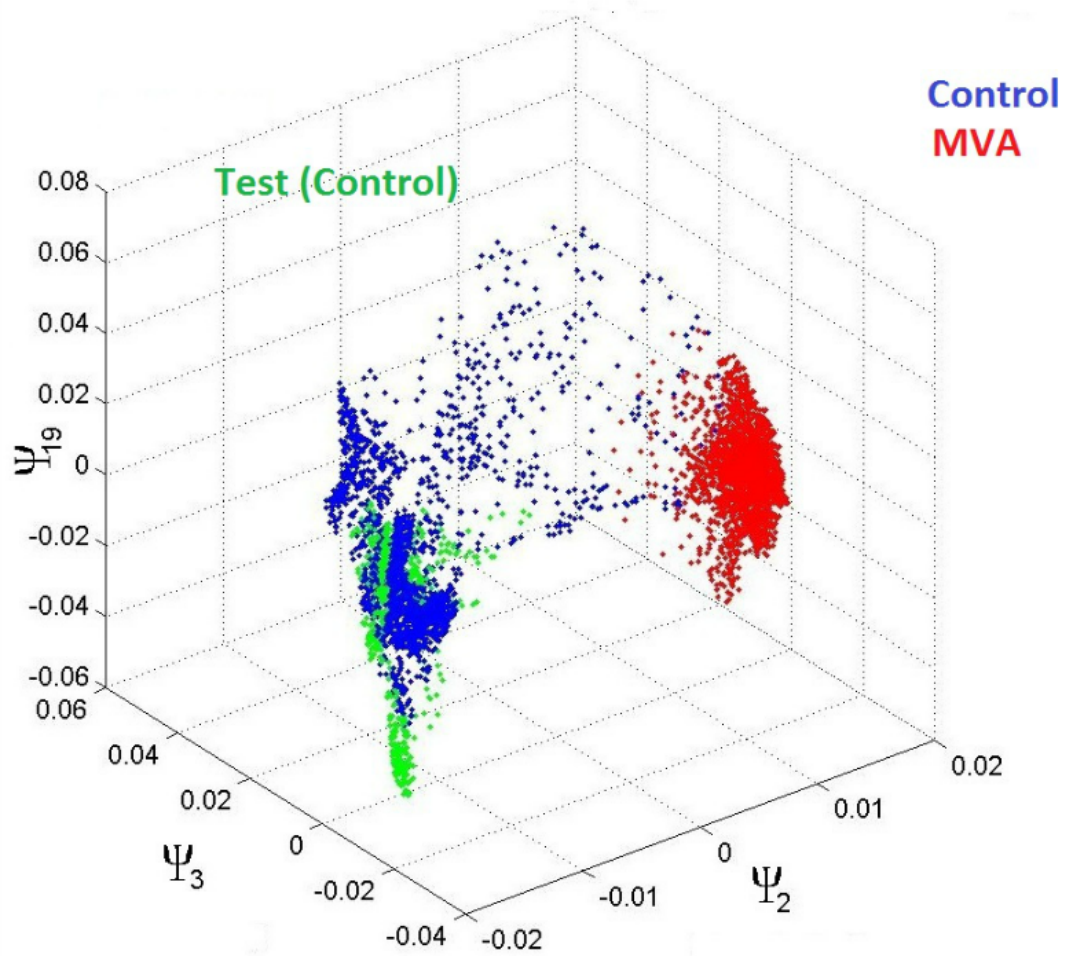
(a) x-direction velocity of both masses



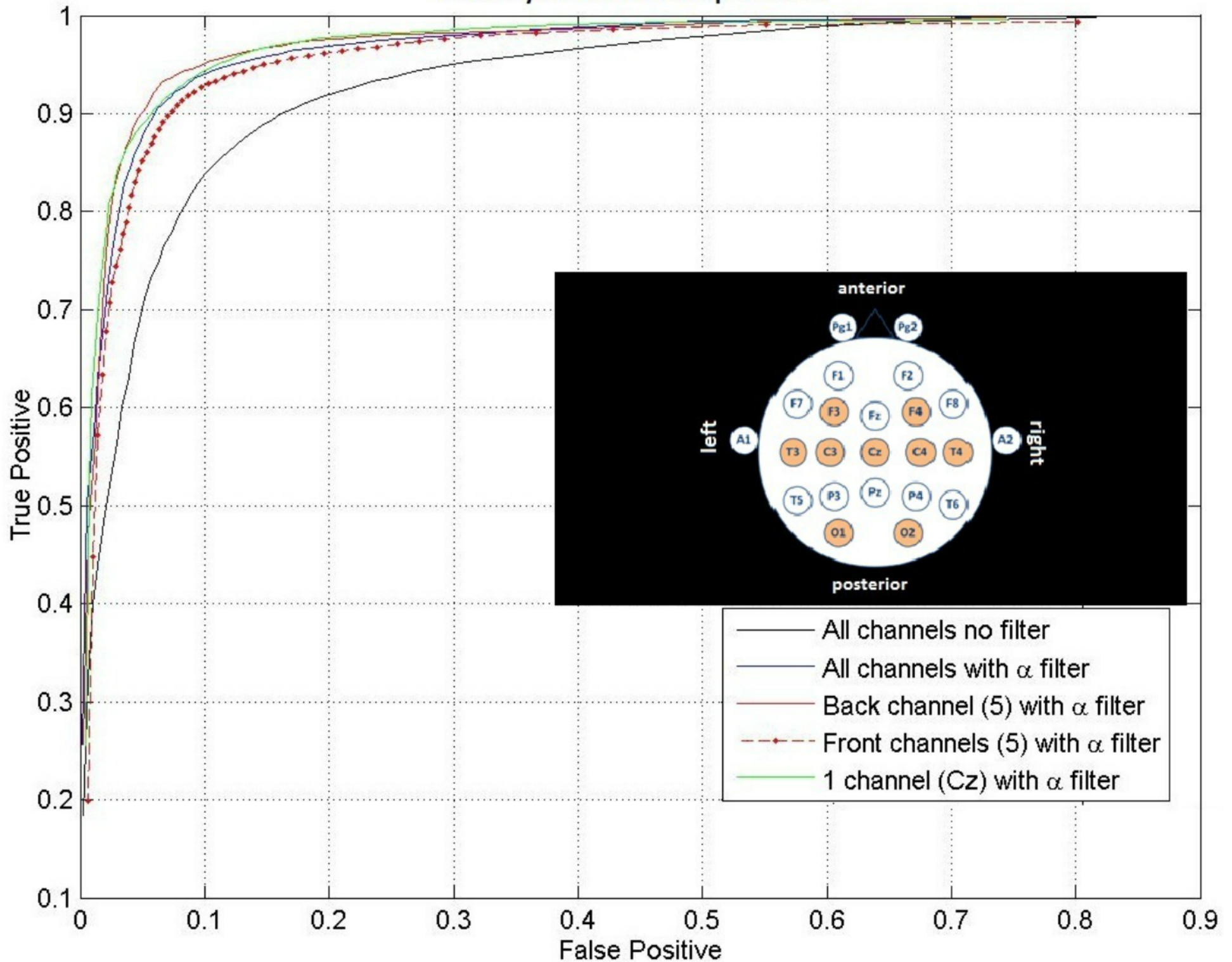
(b) system clusters

PTSD

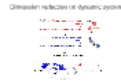




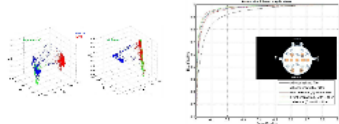
Accuracy for different scalp locations



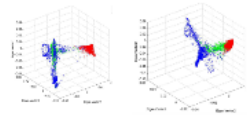
Pendelum

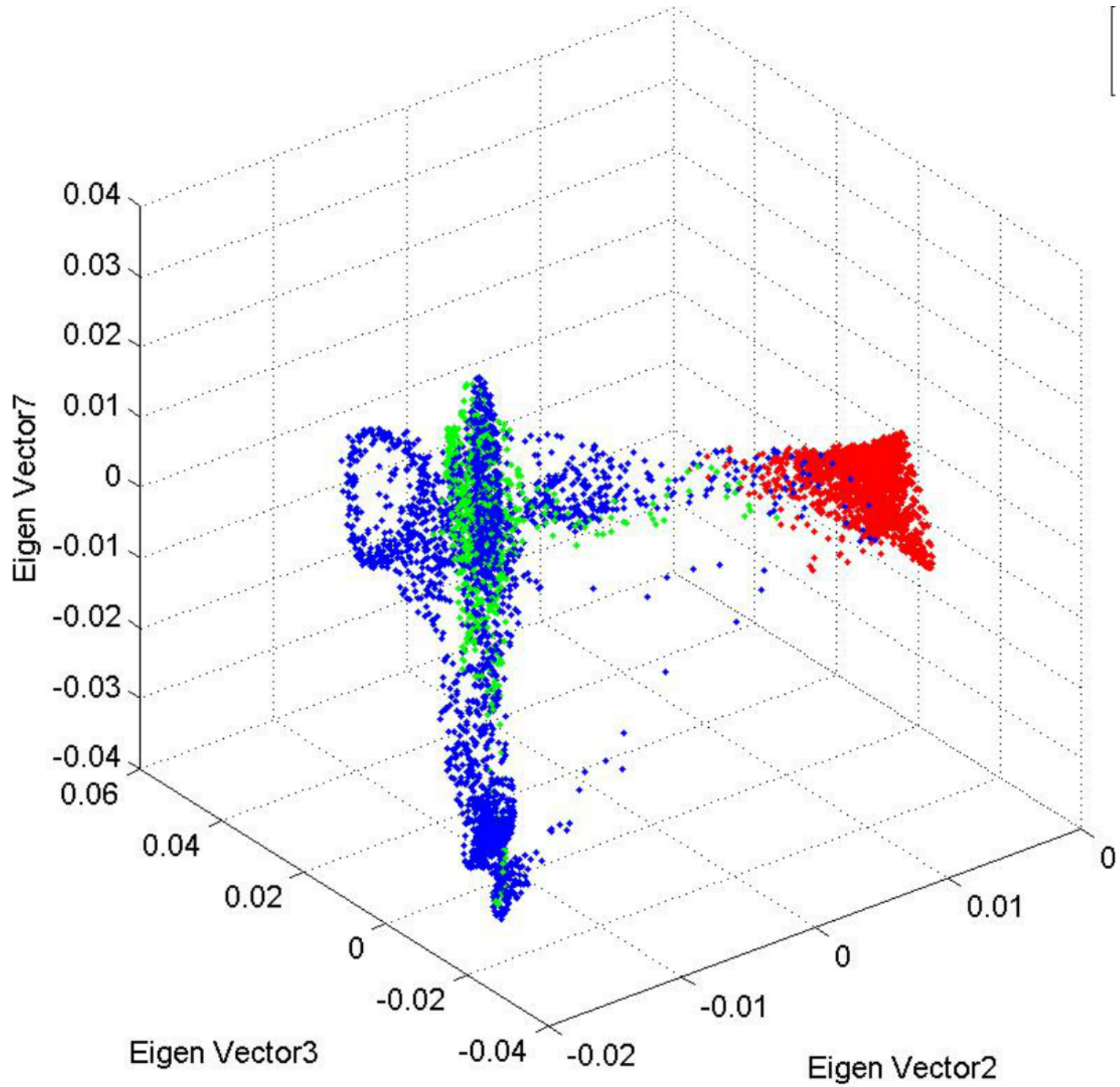


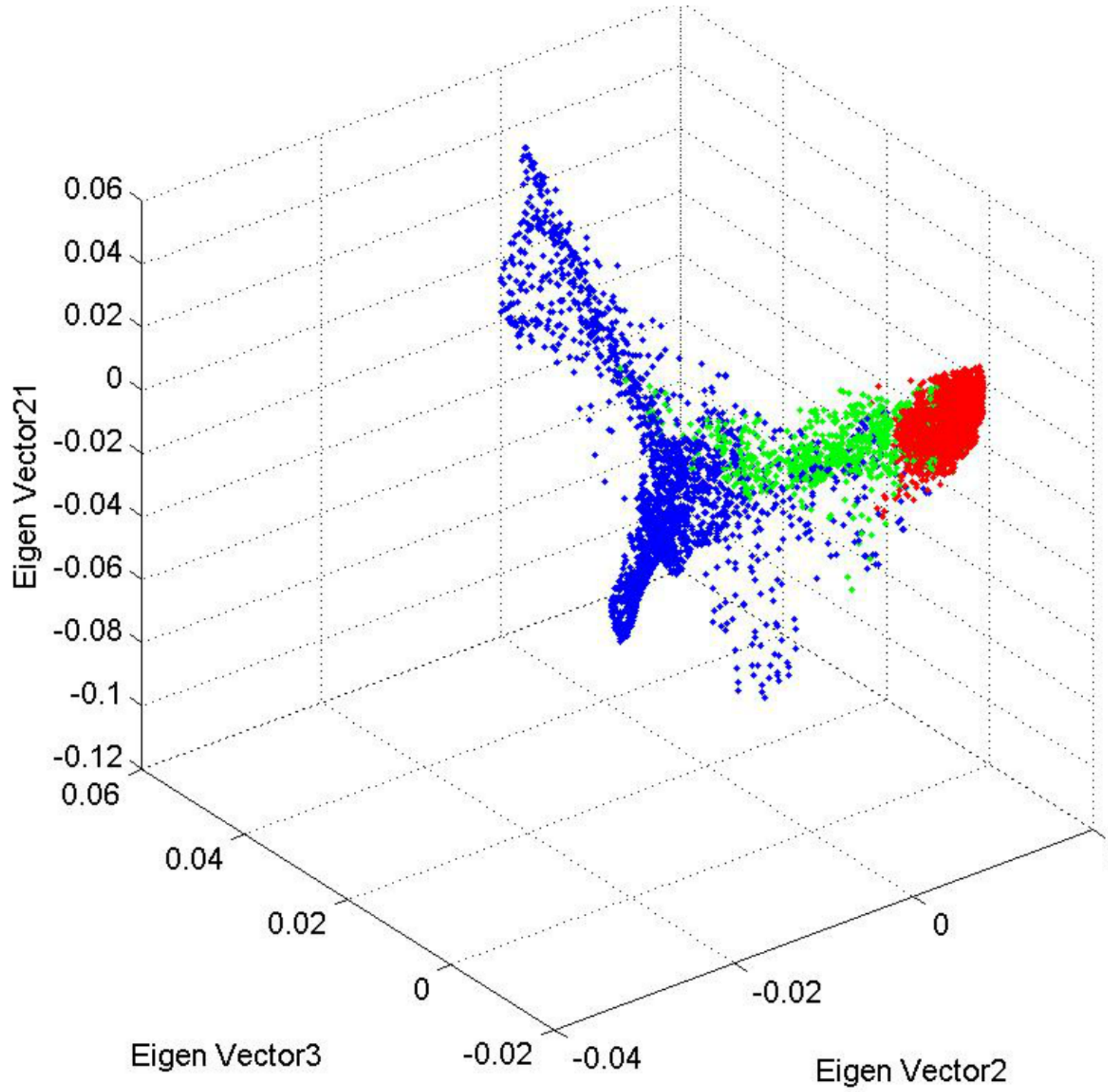
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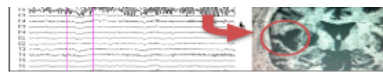
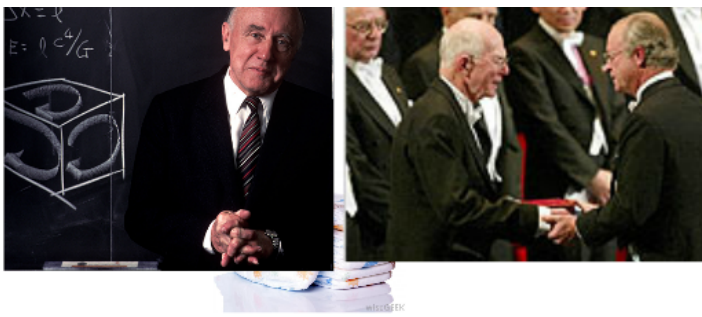


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 "God" as another linguistic tool in the toolbox?



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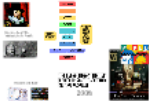
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