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if you've **never** paid your taxes before April 15th.

Discover Magazine Awards for Technological Innovation

Sponsored by the Christopher Columbus Fellowship Foundation with a \$100,000 Columbus Foundation Award!

2000 NOMINATION FORM

Deadline for Submission: January 28, 2000

NOTE:

1. All information on the entry form must be **COMPLETELY** filled out.
2. Discover reserves the right to re-categorize entries and change categories during the selection process: Based on the entries, Discover may re-categorize entries and/or change categories during the selection process.

2000 Discover Magazine Awards Eligibility:

Any technological innovation developed, released or launched after January 1, 1999.

Columbus Foundation Award

Check here if you would like to be considered for the \$100,000 Columbus Foundation award...

By checking this box, you certify that you meet all eligibility requirements.

2000 Categories: (check one only):

- AEROSPACE ENERGY HUMANITARIAN
 COMMUNICATIONS ENTERTAINMENT TRANSPORTATION
 COMPUTING HEALTH

NOTE:

Please complete the following in language as simple as possible. **All fields are required to be filled in.**

1. Name of innovation.

SeizAlert - A Seizure Alertness Technique

2. Describe the innovation in a few sentences.

SeizAlert is a non-invasive technique designed to provide robust, timely, and accurate forewarning of epileptic seizures from one- or multi-channel scalp EEG data.

3. How does the innovation work?

First, the raw EEG scalp data is filtered for low frequency artifacts such as eye blinks and muscular tremors. From the filtered data, by using time delay techniques, we reconstruct the multidimensional underlying dynamics. For any given conditions, that dynamics is confined to a bounded region of the phase space called attractor.



4. What problem did this innovation solve?

The new, highly discriminating measures and the elimination of low frequency artifacts allow forewarning from scalp (as opposed to subdural) EEG data.



This makes our technique the only viable candidate for ambulatory monitoring.



5. Why is it important?

Since epilepsy afflicts millions of people in the US alone, long term, ambulatory monitoring is a low cost, low risk alternative to expensive hospital monitoring and/or continuous medication of patients that in fact would need only occasional treatment.



6. How will this innovation benefit the average consumer or the public in general?

Savings in costly hospital equipment, replaced by affordable unobtrusive ambulatory devices.
Savings in medication.
Improvement of patients' lives.
Avoidance of fatal accidents.



7. When was this innovation developed, released or launched?

1999

8. Is any information about this innovation available on the Web?

If so, please gives us the URL:

http://

9. Who came up with this innovation (list all)?

Lee M. Hively, Vladimir A. Protopopescu, Paul C. G

10. Of these people, who is the person MOST responsible for its development? (We realize that most innovations are the work of a team of people, but we require the name of the ONE researcher, scientist, or engineer most responsible.) If selected as a finalist, the ONE person listed here will be featured in Discover and invited to attend the awards ceremony.

Salutation First Name Last Name

Title:

Company:

Address:

Address:

City: State: Zip:

Phone: Fax:

Email: (Please enter **one** address only!)

11. Whom should we contact if we need more explicit information about the innovation?

Salutation First Name Last Name

Title:

Company:

Address:

Address:

City: State: Zip:

Phone: Fax:

Email: (Please enter **one** address only!)

12. Name of person completing this form:

Salutation First Name Last Name

Title:

Company:

Address:

Address:

City: State: Zip:

Phone: Fax:

Email: (Please enter **one** address only!)

13. How did you hear about the Discover Awards:

14. Are you a subscriber to the magazine: Yes No

If you believe that all information is complete you may send the application now:

We will do a quick check for necessary information and if all is well we will send you an email verifying your application.

If all necessary information is not yet complete you may save your work below:

To save your work you must minimally fill out Item 1 (name of innovation) and all of Item 12 (your contact information). You can then use your Email address and a PW of your choice (below) to retrieve and complete this application at a later date:

Desired Password:

Please submit this form BY JANUARY 28, 2000.

NOTE: If your nomination is selected to be a semifinalist, you will receive an email request for additional information (videos, photos, press clips, manuals, brochures, product samples, etc.)

Questions? disawards@cp.disney.com

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