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# Auto-FBI: A User-friendly Approach for Secure Access to Sensitive Content on the Web AZTE Case # M14-061P

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## Background

Content delivered through web browsers continues to be a prominent method of attack in personal computing systems. Executable scripts (such as JavaScript) and enabling cookies provide the user with a richer browsing experience and convenience of use. This includes everything from drop down menus and customizable display settings to pre-filled forms and user/password recognition. However, these features leave the user vulnerable to cyber security attacks that are typically unmitigated by standard browser-security settings. Even when a browser is restarted preset authentications remain intact. One way around this is to use different browsers for different purposes, but this is not always practical.

# **Invention Description**

Researchers at ASU have developed software that automates the best manual securitycompartmentalization practices by generating a fresh browsing instance (FBI) for sensitive websites. The automation is transparent to the user and does not require any modification of how non-sensitive content is accessed. Auto-FBI predefines sensitive content for novice users but also allows advanced users to designate conflict of interest classes, even permitting content from sites in the same user-defined class to coexist in a browser instance. This provides the same secure access achieved by using multiple browsers all in one.

## Intellectual Property

Status: Pending

### Contact

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## **Benefits and Advantages**

**Potential Applications** 

Web Applications Internet Security

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Browser Extensions/Add-ons

- **Automated** Once installed it does not require any intervention from the user.
- Practical Same secure access to sensitive web obtained by using multiple browsers all within the same browser.
- **Compatible** Supports most conventional browsers.
- **User-friendly** Established security settings for casual users while giving experienced user advanced options for enhanced browsing control.