



Wednesday, November 14, 2018

Cryptographically Protected Database Search (1:10-1:50pm ET)

Mark your calendar and come join us for CAE Forum! CAE Forum is a live, real-time, online, academic forum where members of the CAE community give non-technical presentations on topics of value to the CAE community. CAE Forum is about sharing your ideas, knowledge, and expertise to empower and strengthen our community. It's that simple. CAE Forum presentations are normally held on the third Wednesday of each month during the Fall and Spring semesters.

Date: Wednesday, November 14, 2018

Time: 1:10-1:50pm ET

Location: <https://caecommunity.zoom.us/my/caeforum>

Just log in as "Guest" and enter your name. No password required.

Topic: Cryptographically Protected Database Search

Audience: Students, Professors, Govt.

Presenter(s): Benjamin Fuller, University of Connecticut

Description:

Protected database search systems cryptographically isolate the roles of reading from, writing to, and administering the database. This separation limits unnecessary administrator access and protects data in the case of system breaches. Since protected search was introduced in 2000, the area has grown rapidly; systems are offered by academia, start-ups, and established companies.

However, there is no best protected search system or set of techniques. Design of such systems is a balancing act between security, functionality, performance, and usability. This challenge is made more difficult by ongoing database specialization, as some users will want the functionality of SQL, NoSQL, or NewSQL databases. This database evolution will continue, and the protected search community should be able to quickly provide functionality consistent with newly invented databases. At the same time, the community must accurately and clearly characterize the tradeoffs between different approaches.

A recording of the live presentation will be available within 48 hours of the presentation at:

<https://www.caecommunity.org/cae-forum-resources>

Contact us at: caeforum@caecommunity.org