
University of Texas at San Antonio NSF CREST Center for Security and Privacy Enhanced Cloud Computing (C-SPECC) Research Briefing

Ravi Sandhu

Executive Director

Professor of Computer Science

Lutcher Brown Chair in Cyber Security

Workshop on the Role of NSF Research Centers in Broadening Participation and
Closing the Gap in Science and Engineering

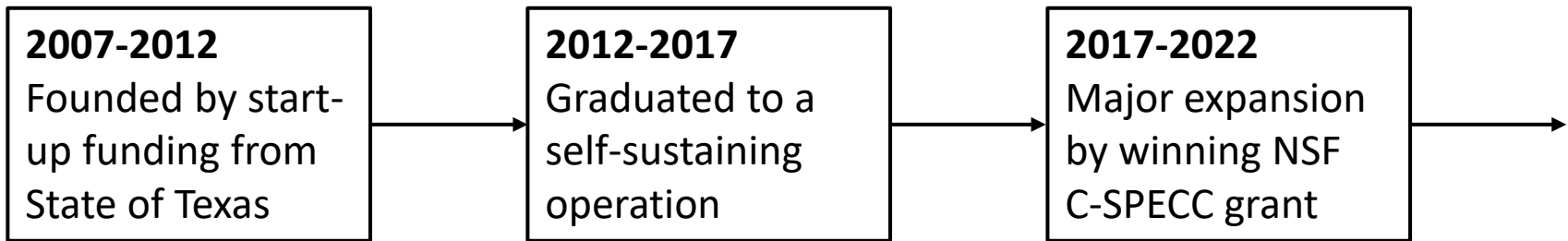
April 5, 2019

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www.profsandhu.com, ics.utsa.edu, cspecc.ics.utsa.edu

MISSION

Sustained excellence in leading edge research



- Established world class laboratories for:
Secure cloud computing &
Malware research

In collaboration with:
College of Engineering
College of Business
College of Education
Open Cloud Institute
Cyber Center for Security & Analytics
National Security Collaboration Center
Partnership with 4 NISD High Schools:
Harlan, Woodson, Taft, Business Careers

- Ravi Sandhu, Director (1)
- College of Sciences (4)
 - ❖ Palden Lama, Jianwei Niu, Xiaoying Wang, Shouhuai Xu
- College of Engineering (3)
 - ❖ Ram Krishnan, Jeff Prevost, Yusheng Feng
- College of Business (2)
 - ❖ Nicole Beebe, Raymond Choo
- College of Education and Human Development (2)
 - ❖ Guadalupe Carmona, Elizabeth Pate

- College of Sciences (4)
 - ❖ Safwa Ameer, John Heaps, Rodney Rodriguez, Mehrnoosh Shakarami
- College of Engineering (4)
 - ❖ Kyle Everett, Randy Klepetko, David Rodriguez, Van Trieu-Do
- College of Business (2)
 - ❖ Richard Alvarez, Patricia Akello
- College of Education and Human Development (1)
 - ❖ Beatriz Galarza

Objectives

POLICY

ATTACKS

Enable
↕
Enforce

What?

Why?

Respond
↕
Defend

Mechanisms

P
R
O
T
E
C
T

How?

D
E
T
E
C
T



Complement



Cloud



**Cloud-Enabled
IoT (Internet of Things)**

University of Texas at San Antonio NSF CREST Center for Security and Privacy Enhanced Cloud Computing (C-SPECC) Broadening Participation Briefing

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 - ❖ Safwa Ameer, **John Heaps**, **Rodney Rodriguez**, Mehrnoosh Shakarami
- College of Engineering (4)
 - ❖ **Kyle Everett**, Randy Klepetko, David Rodriguez, **Van Trieu-Do**
- College of Business (2)
 - ❖ Richard Alvarez, Patricia Akello
+ 2 current under-graduate prospects
- College of Education and Human Development (1)
 - ❖ **Beatriz Galarza**

- NorthSide Independent School District (NISD)
 - ❖ 4th largest in Texas
 - ❖ Largest in San Antonio
 - ❖ Covers UTSA area
 - ❖ Diverse

- Partnered with 4 High Schools
 - ❖ 5 teachers enrolled in iStem Certificate
(1 course/semester for 4 semesters)
 - ❖ 2 year Cyber Security strand at each High School
 - ❖ 2 cohorts over life of the grant