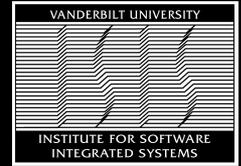




# Institute for Software Integrated Systems

Vanderbilt University

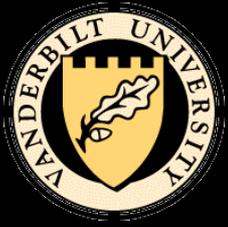


# The CPS-VO Collaboration Platform

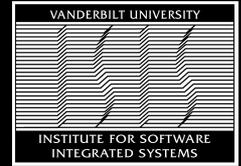
<http://cps-vo.org>

2012 National CPS PI Meeting  
National Harbor, MD  
Oct 4<sup>th</sup>, 2012

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# Outline



- Mission
- Collaboration Services
- Growth Trends
- Getting Involved



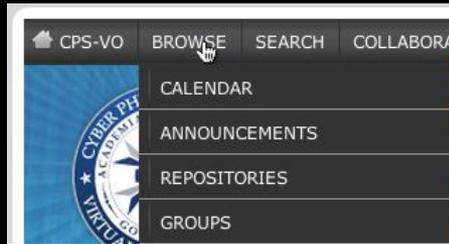
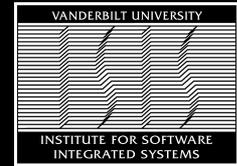
# Objectives

- **Community Building**
  - promoting **collaboration** and close interaction between **academia, industry & government**
  - facilitating **interactions across technical disciplines & across applications areas**
  - **cross-fertilization** of research in CPS **core sciences** and **applied research** in domain- and mission-oriented problems in a multi-agency setting
- **Collaboration Support via the website**
  - **information flow** and awareness of CPS activities
  - **collaboration** and professional networking
  - **knowledge repository** to facilitate the open exchange of challenge problems, research results, tools, and educational materials

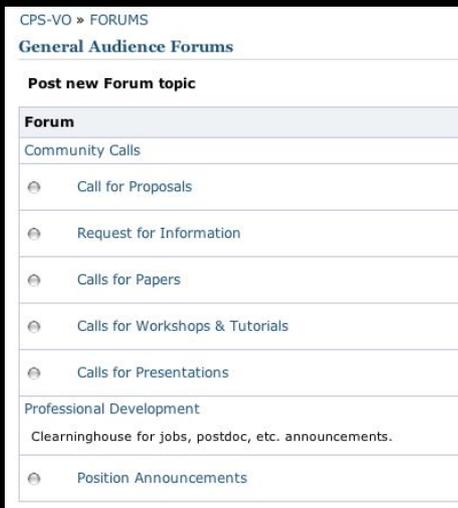
\* Supporting CPS/NITRD community activities



# The VO Community Portal

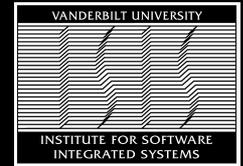


- Community Announcements
- Shared File Repository
- Community Calendar
- Taxonomic Search
- Special Interest Groups





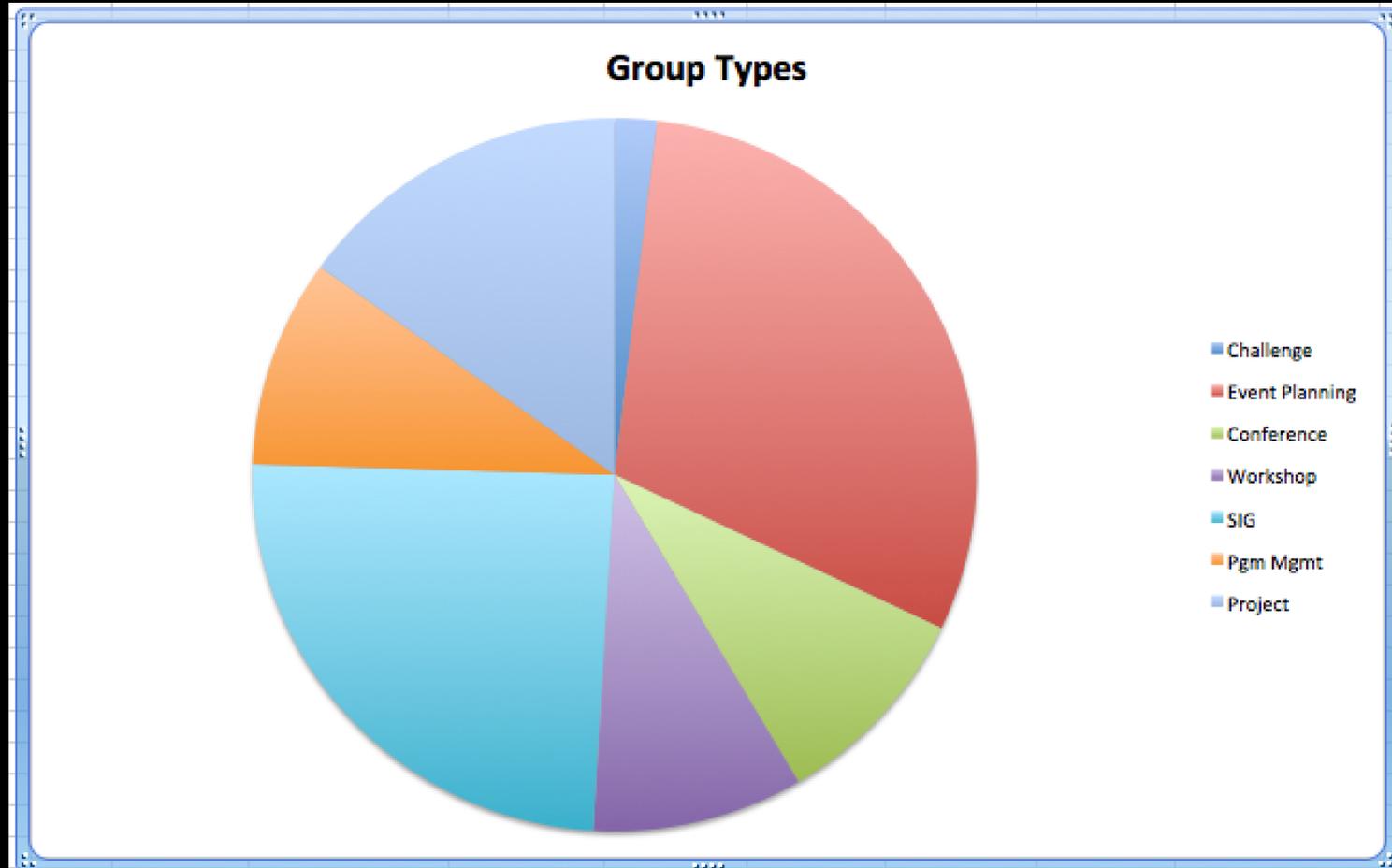
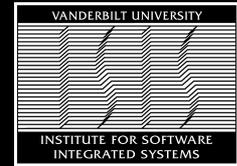
# VO 'Group' Services



- Branding with Configurable Dashboard
- Configurable Security Policy
- Discussion Forums
- Wiki
- Email Announcements
- A Virtual Filesystem
- Revision Control  
(*incl. diff-s*)
- Domain-Specific Search Engine
- Calendar Mgmt  
(*incl. Desktop Sharing Meetings*)
- Content Subscriptions/ Notifications Service



# Common Types of Groups



Challenge	Event Planning	Conference	Workshop	SIG	Pgm Mgmt	Project	Tech Transition	Education
1.82%	29.09%	9.09%	9.09%	23.64%	9.09%	14.55%	1.82%	1.82%

# Example Event Planning

## 2012 The New Clockwork for Time-Critical Systems Planning Meeting Program Committee

CPS-VO » 2012 NATIONAL WORKSHOP ON THE NEW CLOCKWORK FOR TIME-CRITICAL SYSTEMS » 2012 THE NEW CLOCKWORK FOR TIME-CRITICAL SYSTEMS PLANNING MEETING PROGRAM COMMITTEE

### 2012 The New Clockwork for Time-Critical Systems Planning Meeting Program Committee

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- [Create Group](#)
- [Create News Item](#)
- [Create Online Meeting](#)
- [Create Video](#)
- [Create Webform](#)
- [Create Wiki Page](#)
- [Create Web Page](#)

#### SUBGROUPS

- [2012 National Workshop on the New Clockwork for Time-Critical Systems](#)
  - [2012 The New Clockwork for Time-Critical Systems Planning Meeting Program Committee](#)
  - [2012 The New Clockwork for Time-Critical Systems Planning Meeting](#)

## Welcome



A cyber-physical system consists of two interacting subsystems, a cyber-system and a physical system. The behavior of the cyber system is controlled by the execution of programs on a distributed digital computer system, while the laws of physics control the behavior of the physical system. The different models of time—dense physical time in the physical system versus discrete execution time in the cyber system, and the impossibility of perfect synchronization of the physical clocks of the nodes of a distributed computer system, lead to interesting phenomena concerning the joint behavior of these two subsystems. The colloquium is intended to shed light on these phenomena by renowned scientists who have worked on this topic from different perspectives.

This is a non-public group.

### Two Meetings:

1. The **Planning Meeting**: [The New Clockwork for Time-Critical Systems Planning Meeting](#) was held on Monday, June 11 and half of Tuesday, June 12 at Dayton just before 5:50 for ~25 people.
2. The **Workshop**: [The National Workshop on the New Clockwork for Time-Critical Systems](#)

### Resources:

[List of Invitees](#) for the Baltimore New Clockwork for Time-Critical Systems Workshop

[List of registrations](#) for the Baltimore New Clockwork for Time-Critical Systems Workshop

- [Overview from the time workshop MS Word file that was in italics](#)
- [The non-italic portion is on the Workshop page](#)

### Forum topics:

#### Recent Minutes

- [April 18, 2012](#)
- [April 4, 2012](#)
- [February 29, 2012](#)
- [February 22, 2012](#)
- [February 8, 2012](#)
- [Candidates for Invitees](#)
- [General Discussion](#)

#### Planning Telecons

# A Permanent Conference Web Presence



## HCSS Conferences

CPS-VO » GROUPS » HCSS CONFERENCES »

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### 2012 High Confidence Software and Systems Conference

A world class community of researchers will gather in Annapolis, MD for a full week of High Confidence Software and Systems Conference activities that are structured to focus on new scientific and technological foundations that can enable entirely new generations of engineered designs that are becoming essential for effectively operating life-, safety-, security-, and mission-critical systems.

May 6-11, 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
6	7	8	9	10	11
SCC Meeting	SCC Meeting	HCSS Conference Theme: Technology Transfer	HCSS Conference Theme: Formal Synthesis	HCSS Conference Theme: Compositional Reasoning	Designed-In Security Workshop

Home

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- > Create Group
- > 21 members
- Manager: > KNEW
- > My membership
- > Invite members

Subgroups

- HCSS Conferences
  - [2011 HCSS Conference Program Committee](#)
  - [2012 HCSS Conference Program Committee](#)

[ + ] Feedback

Conference Archives: [2001](#), [2002](#), [2003](#), [2004](#), [2005](#), [2006](#), [2007](#), [2008](#), [2009](#), [2010](#), [2011](#), [2012](#)

# Example SIG

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## Science of Security Virtual Organization

CPS-VO » SCIENCE OF SECURITY VIRTUAL ORGANIZATION

Science of Security Virtual Organization [EDIT GROUP] [TRACK] [TAXONOMY] [BROADCAST] [PANELS]

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### In the Spotlight

First (2012) Science of Security

The National Security Agency is pleased to announce the first annual Science of Security (SoS) Community Meeting on **November 29-30, 2012** at the



First (2012) Science of Security Community Meeting

### Current Research

- NSA SoS Lablets
- NSF TRUST Center
- AFOSR SoS MURI
- AFSOR Trust & Suspicion BRI

### Related Research

- AFOSR Foundations of Information Systems
- ARL Computing Sciences
- DHS Cyber Security R&D Center
- HCSS Conferences
- IARPA TRUST Program
- NIST NICE Program
- NSF Secure and Trustworthy Cyberspace (SaTC)
- ONR Software and Computing Systems Program

### SoS Background Material

Recommendations for Science of Security core background reading

- DHS Roadmap for Cybersecurity Research
- Blueprint for a Science of Cybersecurity, Fred B. Schneider
- The Next Wave: Developing a Blueprint for a Science of Cybersecurity Spring 2012
- The Sciences of the Artificial excerpt (2nd Ed. 1981, pp 129-159), Herbert A. Simon
- "Measuring Security", IEEE Security & Privacy, May/June 2011, Stolfo, Bellovin, Evans
- Schneider on Security, Fred B. Schneider
- Science of Cyber-Security, JASON report, 2010
- The Science of Security, Security & Privacy May/June 2011
- Strong Inference, John R. Platt

### Upcoming Events

- 11/27/12 - 11/29/12**  
**First (2012) Secure and Trustworthy Computing PI Meeting**
- 11/29/12 - 11/30/12**  
**First (2012) Science of Security Community Meeting**

+ Add event

### COLLABORATE

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- Create Wiki Page
- Create Web Page

### SUBGROUPS

### MEMBER INFO

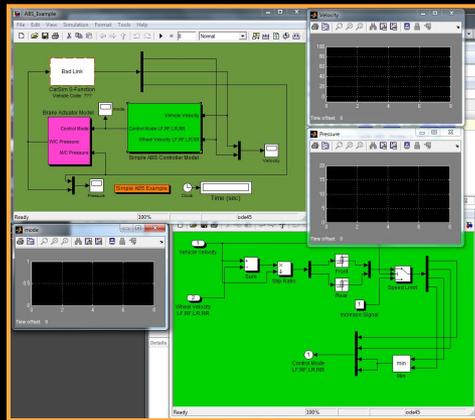
### SUBGROUPS

- Science of Security VO
  - <Private>
  - <Private>
  - <Private>
  - Moving Target Research Symposium
  - <Private>
  - 2012 SoS Community Meeting
    - <Private>
    - <Private>
    - <Private>
    - <Private>

# Example Research Project

## Science of Integration

- Research Findings
- Meeting Coordination
- Automotive Experimental Platform (AEP)
- Publishing Models



The screenshot shows the Science of Integration website. The page title is "Science of Integration | CPS-VO". The URL is "http://cps-vo.org/group/soi". The page features a navigation menu with options like "CPS-VO", "NEWS", "BROWSE", "COLLABORATE", "SEARCH", "ADMINISTRATION", and "MY GROUPS". A search bar is located in the top right corner. The main content area displays a list of files, including "LateralMotionPlot.pdf", "LongitudinalMotionPlot.pdf", and "NI-RT\_ABS\_Vs\_No\_ABS.wmv". Each file entry includes the submitter's name, date, and a "Download" button. A "Group toolbar" is visible on the right side of the page, containing options like "Create File", "Create Forum topic", "Create Event", "Create Meeting", "Create Page", "Create Video", "Group forums", "Manage group forums", and "17 members". The manager is identified as Xenofon Koutsoukos.

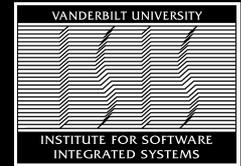
# Example Tech Transition

The screenshot displays a web application interface for the DARPA META Program. At the top, there is a navigation bar with 'CPS-VO' and 'MY GROUPS' on the left, and a login section with 'username', 'password', 'Log In', and a search box on the right. A central banner features a person looking at a computer monitor, with the text 'DARPA META Program' and a 'DARPA' logo. A registration prompt reads: 'Not a member? Click here to register! Forgot username or password?'. Below the banner, the breadcrumb path is 'CPS-VO » DARPA AVM PROGRAM » DARPA META PROGRAM » FILES'. The main content area is titled 'Files' and contains a table of file listings. On the left side of the interface, there are three buttons: 'COLLABORATE', 'SUBGROUPS', and 'MEMBER INFO'. The file list table has columns for file names, sizes, and counts.

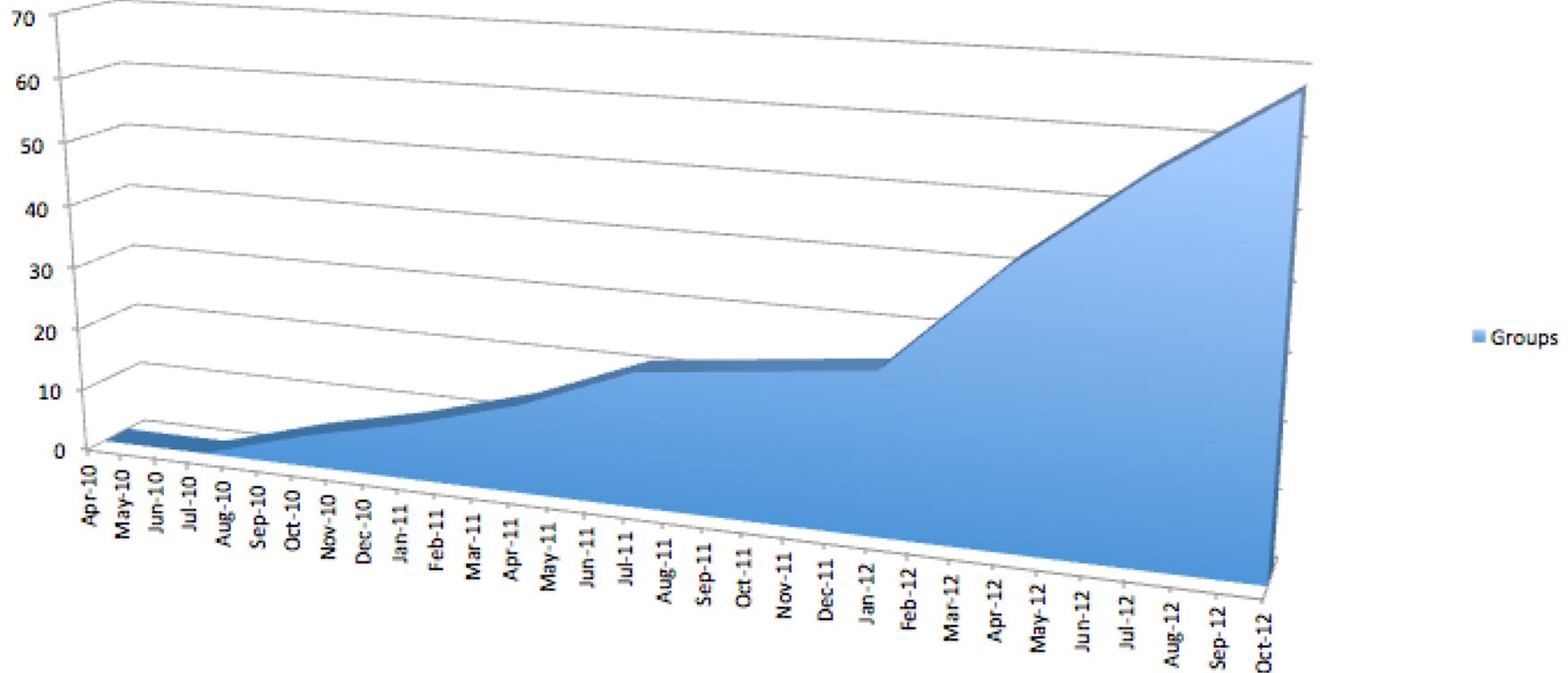
File Name	Size	Count
META: Deliverables by Technical Area	5620.99 MB	72
TA1 Complexity Metric	1041.86 MB	12
TA2 Adaptability Metric	1054.88 MB	13
TA3 Metalanguage	1089.33 MB	16
TA4 Design Flow	1363.18 MB	12
TA5 Verification Flow	1071.74 MB	19
BAE META Software Narrative.pdf	135.11 KB	[download file]
CyPhy2HybridSAL.zip	1.29 MB	[download file]
CyPhyHILITEv2.zip	4.45 MB	[download file]
hsaRelAbsV4.zip	6.92 MB	[download file]
meta.zip	952.68 MB	[download file]
META_VDD_Final.docx	187.56 KB	[download file]
NetworkFaultPerformanceAnalysis20110719.zip	350.77 KB	[download file]
PARC META Final Report.pdf	1.05 MB	[download file]
PARC META Software Narrative.pdf	53.89 KB	[download file]
ParcMeta2Upload.zip	5.9 MB	[download file]
PARC_Meta2_Software_Upload_May_11_PI_Meeting.zip	26.85 MB	[download file]
prismatic-r1159-20110930.zip	56.67 MB	[download file]
PROMISE-Editor-deliverable-20111014.zip	7.11 MB	[download file]
PROMISE-Network.zip	648.96 KB	[download file]
README_META_DELIVERY.txt	163 bytes	[download file]
SIFT META Final Report.pdf	2.12 MB	[download file]
SIFT META Software Narrative.pdf	40.94 KB	[download file]
SRI META Final Report.pdf	5.24 MB	[download file]
SRI META Software Narrative.pdf	64.32 KB	[download file]
META: Deliverables by Performer	1638.15 MB	47

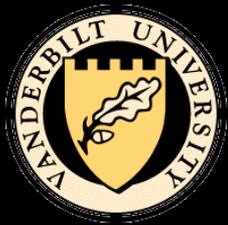


# Groups are Taking Off

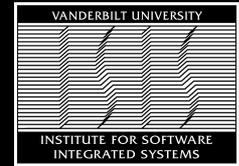


Groups

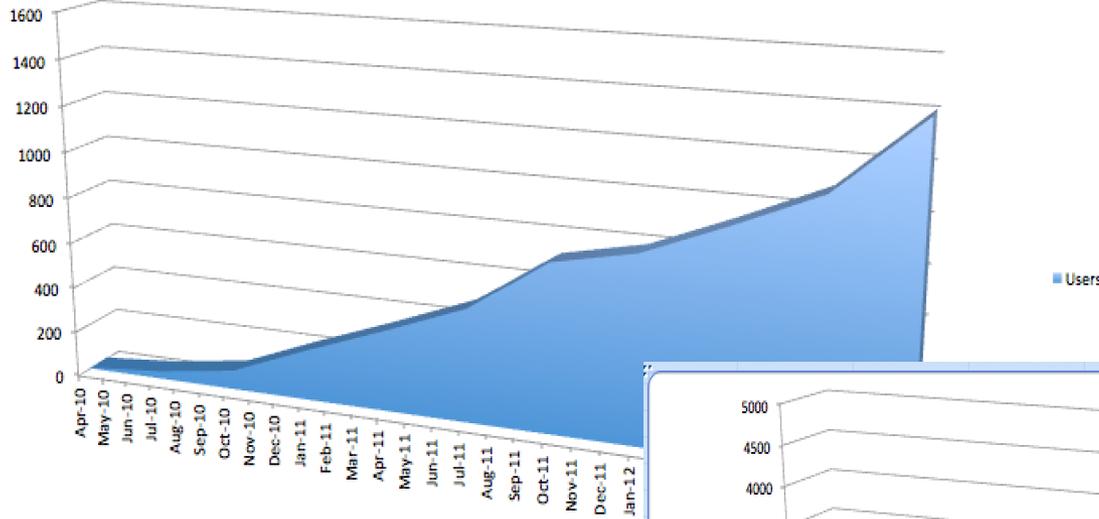




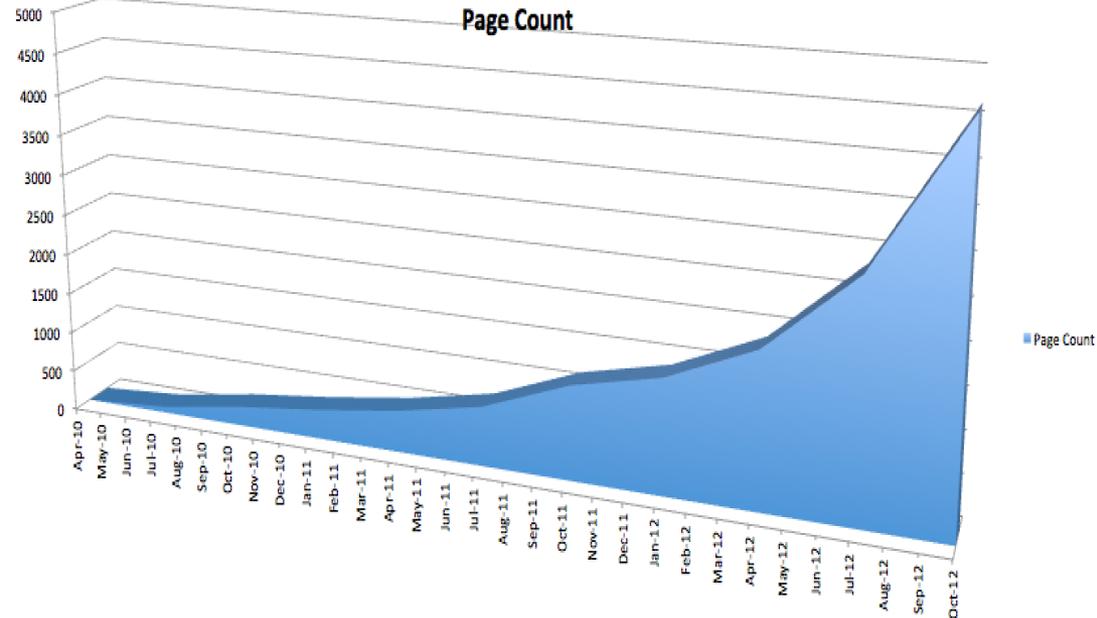
# Historical Growth

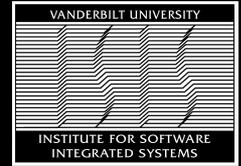
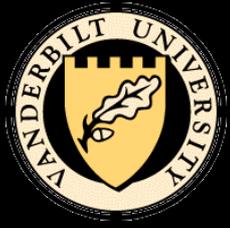


### Users



### Page Count

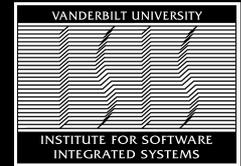




Get Involved !



# Vocabularies/Taxonomies Enable Search



- [-] CPS Domains
  - [-] Consumer
  - [-] Communication
  - [+] Defense
  - [+] Energy
  - [+] Critical Infrastructure
  - [+] Health Care
  - [+] Manufacturing
  - [-] Robotics
  - [+] Transportation
  - [-] CPS Technologies
    - [-] Architectures
    - [-] Design Automation Tools
    - [-] Embedded Software
    - [-] Platforms
    - [-] Systems Engineering
    - [-] Wireless Sensing and Actuation
  - [-] Education
  - [-] Foundations
    - [-] Architectures
    - [-] Composition
    - [+] Concurrency and Timing
    - [+] Control
    - [+] Modeling
    - [-] Real-Time Coordination
    - [-] Resilient Systems
    - [-] Science of System Integration
    - [+] Science of Security
    - [-] Simulation
    - [+] Validation and Verification
  - [-] Science Policy
  - [-] Research Program Overview

CPS-VO  
**Taxonomic Search**

Keyword search

With all of the words

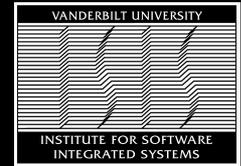
Guided search

Click a term to initiate a search.

<p><b>Group</b></p> <p>HCSS Conferences (329) 2011 CPS PI Meeting (280) Computational Cybersecurity in Compromised Environments (C3E) (243) VO Moderators (227) Science of Security Virtual Organization (137) 2012 HCSS Conference Program Committee (122)</p> <p><b>Topics</b></p> <p>Foundations (399) CPS Domains (329) CPS Technologies (93)</p> <p><b>Contributor(s)</b></p> <p>A. Gray (1) A. Joshi (1) A. Prasad Sistla (2) A. Shelestov (2) A. Sherman (1) A. Sidorenko (2) A. Squicciarini (1) A.C. Jensen (1) A.J. Ramirez (1) Aaron Botello (1) Aaron Ridley (2)</p> <p><b>Keywords</b></p> <p>2- layer authentication (1) A/V (2) abstract interpretation (2) acceptability (1) Access Control (1) ACCESS Linnaeus Center (1) Ada Core Technologies (1) adaptive adversaries (1) adaptive manufacturing (1) Adaptive Vehicle Make (1) Adelphi (1)</p>	<p>DARPA AVM Meta-X (103) DARPA AVM Meta-X Private (102) 2011 HCSS Conference Program Committee (101) 2011 Automotive CPS Workshop (78) <b>more...</b></p> <p>Research Program Overview (44) Education (39) Science Policy (34)</p> <p>Aaron Tomb (1) Adam Anderson (2) Adam J. Aviv (1) Adam Shostack (1) Adam Wick (2) Adel Sadek (3) Adrian Agogino (3) Ahmed AlEroud (1) Ajinkya Bhawe (1) <b>more...</b></p> <p>adversary attack behavior (1) aerial (1) Aerospace (3) aerospace industry (1) AFOSR/RSL (1) AFRL (1) Agilent Laboratories (1) Air Force Institute of Technology (1) Air Force Research Laboratory (1) <b>more...</b></p>	<p><b>Event Types</b></p> <p>Workshop (54) Conference (52) PI Meeting (45) Satellite Workshop (17) Symposium (14) Community Forum (5)</p> <p><b>Date authored</b></p> <p>2010 (280) 2011 (837)</p> <p><b>Document Type</b></p> <p>Abstract (51) Agenda (21) Announcement (6) Call for Proposal (6) Congressional Testimony (5) Documentation (4) Draft (5) Executive Summary (4)</p> <p><b>Document Source</b></p> <p>Academia (598) Industry (182) U.S. Government (40) Research Organization (19) Professional Organization (13) NSA (10)</p> <p><b>Content type</b></p> <p>Event (463) File (1965) Forum topic (143) Page (250)</p>	<p>Summer School (5) Breakout Session (1) Panel (1) Session (1) <b>more...</b></p> <p>2012 (2985)</p> <p>Memo (3) Minutes (9) Model (2) Poster (118) Presentation (463) Press release (2) Publications (140) <b>more...</b></p> <p>NSF (8) DARPA (5) United Kingdom (4) Canada (3) <b>more...</b></p> <p>Story (6) User Profile (1220) Video (14) Webform (41)</p>
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# Advertise Yourself



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account user profile

Profile Subscriptions (0)

Contributions

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- My Notifications
- My Subscriptions
- My Meeting Invites
- My Bookmarks
- My Files

**MY GROUPS**

**First Name:** Christopher

**Middle Initial:** P

**Last Name:** Buskirk

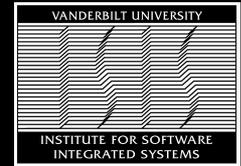
Vocabularies

**Topics:**

- CPS Domains**
  - Consumer
  - Communication
  - Defense
  - Energy
  - Critical Infrastructure
  - Health Care
  - Manufacturing
  - Robotics
  - Transportation
- CPS Technologies
  - Architectures
- Design Automation Tools**
  - Embedded Software
  - Platforms
- Systems Engineering**
  - Wireless Sensing and Actuation
- Education**
  - Foundations
    - Architectures
    - Composition
  - Concurrency and Timing
  - Control
- Modeling**
  - Hybrid Models
  - Multi-models
  - Model Integration



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## Cyber Physical Systems Virtual Organization

*Fostering collaboration among CPS professionals in academia, government, and industry*

CPS-VO

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You can leave a message using the contact form below.

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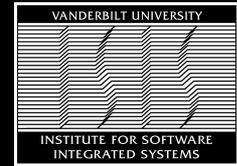
**Message: \***

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Search options: SEARCH FOR CONTENT, SEARCH FOR A GROUP, SEARCH FOR PEOPLE, **SEARCH FOR A PROJECT** (highlighted with a red circle), TAGCLOUD.

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  - Consumer
  - Communication
  - Defense
  - Energy
  - Critical Infrastructure
  - Health Care
  - Manufacturing
  - Robotics
  - Transportation
- CPS Technologies
  - Architectures
  - Design Automation Tools
  - Embedded Software
  - Platforms
  - Systems Engineering
  - Wireless Sensing and Actuation
- Education
- Foundations
  - Architectures
  - Composition
  - Concurrency and Timing
  - Control
  - Modeling
  - Real-Time Coordination
  - Resilient Systems
  - Science of System Integration
  - Science of Security
  - Simulation
  - Validation and Verification
- Science Policy
- Research Program Overview

CPS-VO » PROJECTS

**Project description** EDIT REVISIONS TRACK

Virtual Organization for Cyber-Physical Research (VO-CyPhER)

Project Details

**Abstract:**  
This NSF award provides support for a CPS Virtual Organization. The National Science Foundation established the Cyber-Physical Systems (CPS) program with the vision of developing a scientific and engineering foundation for routinely building cyber-enabled engineered systems in which cyber capability is deeply embedded at all scales, yet which remain safe, secure, and dependable – "systems you can bet your life on." The CPS challenge spans essentially every engineering domain. It requires the integration of knowledge and engineering principles across many computational and engineering research disciplines (computing, networking, control, human interaction, learning theory, as well as mechanical, chemical, biomedical, and other engineering disciplines) to develop a "new CPS system science." Achieving such an ambitious goal is challenging. The objective of the CPS "virtual organization" (CPS-VO) project is to actively build and support the multidisciplinary community needed to underpin this new research discipline and enable international and interagency collaboration on CPS. In support of the CPS-VO, Vanderbilt University will work with the community to develop strategies and mechanisms to: (i) facilitate and foster interaction and exchange among CPS researchers across a broad range of institutions, programs and disciplines, (ii) enable sharing of knowledge generated by CPS research with the broader engineering and scientific communities, sharing and integrating experimental tools, platforms and simulators among researchers and stakeholders, (iii) facilitate and foster collaboration and information exchange between CPS researchers and industry and (iv) facilitate international collaboration on CPS research.

**PI Username:**  
Chris vanBuskirk

**Principal Investigator (PI) Name:**  
vanBuskirk, Christopher

**Co-PI Username(s):**  
Gabor Karsai

**Co-PI Name(s):**  
Gabor Karsai

**Time Span:**  
Mon, 03/01/2010 - Sat, 02/28/2015

**Sponsor(s):**  
Vanderbilt University  
National Science Foundation

**Award Number:**  
0931632

**Project URL:**  
<http://cps-vo.org>

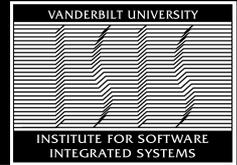
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CPS Domains CPS Technologies Education Foundations Science Policy Research Program Overview

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## 2012 CPS PI Meeting

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- Poster Session
- Participant Guidance
- Posters/Abstracts
- Organizers
- Files

**COLLABORATE**

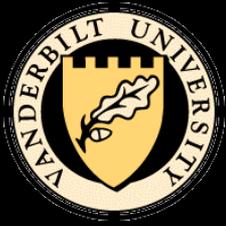
- [Create Event](#)
- [Upload File](#)
- [Create New Topic](#)
- [Create News Item](#)
- [Create Online Meeting](#)
- [Create Wiki Page](#)

CPSPIMTG12 Topics:		
Plenaries	11.58 MB	2
Session 1: Science of CPS	0 bytes	0
Session 2: Technology for CPS	0 bytes	0
Session 3: Design and Manufacturing	0 bytes	0
Parallel Session: Health and Medical	0 bytes	0
Parallel Session: Energy	0 bytes	0
Parallel Session: Transportation	0 bytes	0

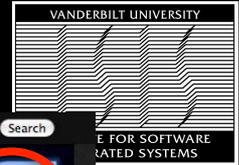
**File upload**

Select a folder to upload files to.

- CPS Domains
  - Consumer
  - Communication
  - Defense
  - Energy
  - Critical Infrastructure
  - Health Care
  - Manufacturing
  - Robotics
  - Transportation
- CPS Technologies
  - Architectures
  - Design Automation Tools
  - Embedded Software
  - Platforms
  - Systems Engineering
  - Wireless Sensing and Actuation
- Education
- Foundations
  - Architectures
  - Composition
  - Concurrency and Timing
  - Control
  - Modeling
  - Real-Time Coordination
  - Resilient Systems
  - Science of System Integration
  - Science of Security
  - Simulation
  - Validation and Verification
- Science Policy
- Research Program Overview



# Join/Participate in a Group



CPS-VO MY GROUPS MY ACCOUNT Hello, Chris.vanBuskirk | Log out Search

**Education**

Submit Your Material

CPS-VO » EDUCATION » MEMBERS

EDIT GROUP REVISIONS TRACK TAXONOMY BROADCAST PANELS

Members

Home **Join us** Existing Submissions About Calendar Members Moderation Forums Files

**MEMBERS OF EDUCATION**

View: All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

	Jonathan Sprinkle Assistant Professor at University of Arizona Contributions Groups	+
	John Baras Professor at University of Maryland Contributions Groups	+
	Insup Lee Unknown Title at Unknown Organization Contributions Groups	+
	Edward Lee Unknown Title at Unknown Organization Contributions Groups	+
	Andre Platzer Assistant Professor at Carnegie Mellon University Contributions Groups	+
	Igor Alvarado Academic Research Manager at National Instruments Contributions Groups	+
	Test Account Unknown Title at Unknown Organization Contributions Groups	+
	Jeff Jensen Unknown Title at Unknown Organization Contributions Groups	+

**COLLABORATE**

- Create Event
- Upload File
- Create Forum Topic
- Create News Item
- Create Online Meeting
- Create Project
- Create Webform
- Create Wiki Page
- Create Web Page

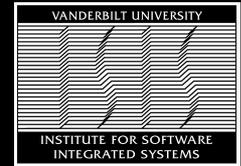
**MEMBER INFO**

<http://cps-vo.org/group/edu>

GOAL: dissemination of CPS educational materials



# Establish a New Group



Navigation: CPS-VO | BROWSE | SEARCH | COLLABORATE | MY GROUPS | MY ACCOUNT | Hello, vbuskirk | Log out | Search

**Cyber Physical Systems Virtual Organization**  
*Fostering collaboration among CPS professionals in academia, government, and industry*

CPS-VO » TUTORIAL

### Form & Manage Special Interest Groups

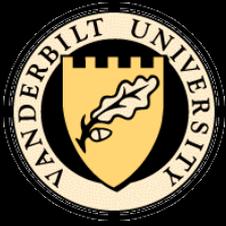
The CPS-VO Portal provides extensive support for Special Interest Groups. The links below explain how to perform advanced group management functions.

- Request to Form Special Interest Group
- Administer Members
- Send Out Messages
- Set Up Group Vocabularies

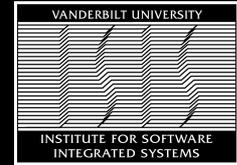
« Upload a File | up | Request to Form Special Interest Group »

Printer-friendly version | 86 reads | [thumbs up icon] | [plus icon]

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# Drop by the Help Desk



## Navigate the CPS-VO.ORG

...it's more than a website.

PUBLICIZE EVENTS AND MAKE ANNOUNCEMENTS • SHARE DOCUMENTS AND COLLABORATE • FIND COLLEAGUES • JOIN GROUPS • FORM AND MANAGE COMMUNITIES OF INTEREST • ORGANIZE ONLINE MEETINGS

### SITE FEATURES

- Community-Oriented Framework
- Cohesive Collection of Loosely Coupled Websites
- File Repository
- Meta-Data
- Taxonomic Search Engine
- Community Announcements
- Current News
- Chat
- Activity Streaming
- Community Calendar
- Collaboration with Colleagues

### TYPES OF GROUPS

- Special Interest Groups
- Event Planning
- Archival of Proceedings
- Research Project Management
- Research Results Promotion
- Competitions or Challenge Problems
- Educational Resources

### GROUP BENEFITS

- Customized Branding
- Configurable Security Policy
- Calendaring Service
- Online Desktop-Sharing meetings
- Meeting Invites
- Virtual Filesystem (includes version control)
- Discussion Forums
- Wikis
- Group-Specific Vocabularies (or 'taxonomies' for labeling documents; including associated group search engines)
- Email Broadcasting to Group Membership
- Customized Forms (e.g. a tailored attendee registration page for upcoming conference)
- Inviting Other Potential Members
- Creating Subgroups (i.e. hierarchical families of Groups)

### OUR OBJECTIVES

#### Community Building

- promoting collaboration and close interaction between academia, industry & government
- facilitating interactions across technical disciplines & across applications areas
- cross-fertilization of research in CPS core sciences and applied research in domain- and mission-oriented problems in a multi-agency setting

#### Collaboration Support

- information flow and awareness of CPS activities
- collaboration and professional networking
- knowledge repository to facilitate the open exchange of challenge problems, research results, tools, and educational materials

COMPLETE YOUR PROFILE

