
Call for Papers

Workshop on Cybersecurity Education and Workforce

In Conjunction with the 2016 IEEE Intelligence and Security Informatics (ISI) Conference

The annual IEEE International Conference Series on Intelligence and Security Informatics (ISI) was started in 2003 in Tucson, Arizona. Since then, the conference has been hosted in Atlanta, San Diego, New Brunswick, Taipei, Dallas, Vancouver, Beijing, Seattle, Washington DC, the Hague, and Baltimore. Over the past thirteen years, the IEEE ISI Conference has evolved towards an integrated alignment of multiple domains, including technology, humans, organization, and security. IEEE ISI 2016 (<http://www.isi-conf.org/>) will return to Tucson, Arizona, the birthplace of this conference series, and will include a Workshop on Cybersecurity Education and Workforce. This special workshop is intended to promote the sharing of lessons learned, and support fellowship, networking, and problem-solving between academia, government, and industry.

PROGRAM OUTLINE and PARTICIPANT BENEFITS

The workshop offers participants the opportunity to hear about new programs and initiatives pertaining to cybersecurity education and our cyber workforce, and to present their ideas and work to a receptive and interested audience. The goal of the program is to allow ample time for interaction and discussion, demonstrations, and recruitment. In addition to the presentations of accepted papers, the workshop session will include a keynote speaker and will also feature a special Capture The Flag (CTF) Competition for students who will also present their winning strategies. At the All-Conference Poster Session on September 29th, authors of accepted workshop papers and posters will present their work, further extending the time available for information exchange. Time will also be set aside for businesses and other organizations interested in recruiting to meet with students.

PAPER and POSTER SUBMISSION

The workshop encourages the submission of papers relevant to cybersecurity education, cybersecurity workforce and workforce development, and case studies related to cybersecurity education, training, or programs; see the topic list below for additional ideas. **Submissions are due May 16, 2016.** The workshop accepts three types of paper submissions: long papers (maximum 6 pages), short papers (maximum 3 pages), and posters (1 page abstract). Papers must be submitted in the IEEE two-column camera-ready style, and may be produced in either Microsoft Word or LaTeX format, but are uploaded as PDFs. For information on formatting, see the IEEE page for publications at http://www.ieee.org/conferences_events/conferences/publishing/templates.html. Papers will be submitted through the EasyChair submission and review system (submission link available soon). Submissions are reviewed through a peer-review process, with program committee members matched to submissions based on expertise and interest. Authors will have a limited opportunity to respond to initial reviews. Author feedback is taken into account in the final recommendations and reviews may be changed accordingly. Accepted papers and posters from the workshop will be included in the formal ISI conference proceedings published by the IEEE Press. IEEE ISI Proceedings are EI-indexed. Having your paper accepted at an IEEE conference is a great way to promote your work and learn from others.

Important Dates

- ◆ Submissions due 16 May 2016
- ◆ Acceptance sent by 1 July 2016
- ◆ Final copy due 10 July 2016
- ◆ Authors register by 10 July 2016
- ◆ Workshop: 28 Sept 2016
- ◆ Poster Session: 29 Sept 2016

AUTHOR PARTICIPATION, PRESENTATIONS, and AWARDS

The IEEE ISI International Conference is recognized for its all-conference poster session, to be held September 29th. Authors of accepted short and long papers will discuss their work during the workshop presentations and panel sessions and will also present their work at the poster session so that all attendees may

have the opportunity to learn from it. Authors of single-page abstracts will attend the workshop and present their work as a poster at the poster session. Recognitions will be awarded for CTF winners, best papers and posters, and best student papers and posters (student must be listed as first author and have responsibility for over 50% of the work, writing, and presentation).

All papers and posters must have at least one author registered and presenting at the conference. Authors must register by July 10, 2016, to ensure that their papers and/or posters will be published in the conference proceedings and can be presented at the conference. Authors not registering by that day may be dropped from the program and their papers/posters dropped from the conference proceedings. All registered authors receive a free copy of the conference proceedings.

TOPICS

Authors are welcome to present on any topic relevant to cybersecurity education and workforce. Suggested topics include but are not limited to the following:

- ◆ International considerations in cybersecurity education and workforce development
- ◆ Student research and learner-centered cybersecurity education
- ◆ Cybersecurity competitions
- ◆ Promoting diversity in the cybersecurity workforce
- ◆ Professional development and continuing education
- ◆ Knowledge transfer
- ◆ Workforce preparation and training
- ◆ Case studies related to education and workforce development are welcomed, for example, the teaching of cybersecurity topics, launching cybersecurity programs, and best practices for Scholarship-for-service programs.

Scholarship Support for Student Presenters: Student participants presenting papers or posters and participating in the Capture the Flag (CTF) Competition may apply to have selected conference related-expenses covered. Check the conference website for information and details. Scholarship-for-Service (SFS) students are particularly encouraged to attend and present. SFS students should work with their local institution to determine if SFS professional development funds can be used to cover travel expenses.

Capture the Flag (CTF) Competition and Training for Student Presenters and Attendees: Students attending the workshop will be eligible to participate in the Capture the Flag Competition for prizes. This competition will include both a standard CTF competition and a presentation component where top teams explain their strategies and results. The winning teams will be selected based on both CTF and presentation performance. More information about it will be posted on the conference website.

WORKSHOP CO-CHAIRS



Mark Patton: Dr. Patton is lecturer in the University of Arizona's Management Information Systems Department. His research interests include deception detection, security issues related to the Internet of Things (IoT), and network security. He also supports and administers the University of Arizona Scholarship-for-Service program.



Sidd Kaza: Dr. Sidd Kaza is associate professor in the Department of Computer and Information Sciences at Towson University. His interests lie in cybersecurity education, data mining, and application development. His work has been funded by the National Science Foundation, Department of Defense, and the Maryland Higher Education Commission.

CONFERENCE WEBSITE

For more information and details on the workshop and IEEE ISI conference, consult the conference website at <http://www.isi-conf.org/> or contact Mark Patton, workshop co-chair, at mpatton@email.arizona.edu.