

TACS 2012 invites submissions in the fields of theoretical and applied computer science. The aim of the conference is to encourage collaboration among students and provide them with a forum to present their research. Accepted papers will be published on the conference website. Full papers must be no more than 6 pages in length; short papers (including work in progress) may be submitted with a length no more than 3 pages.

#### IMPORTANT DATES

Submission Deadline: January 31, 2012 at 11:59pm CDT

Author Notification: February 10, 2012

Camera-ready Papers: February 16, 2012

Conference Date: February 17, 2012

Formatting will follow IEEE two column conference format and an author guide and detailed submission information is available. For more information, please visit <http://www.cs.okstate.edu/tacs12>

The conference will be held in Oklahoma State University, Stillwater, Oklahoma, on February 17, 2012.

Best paper award will be given, which includes a certificate and a monetary prize.

#### Scope

##### Security

- \* Cryptography
- \* Intrusion Detection
- \* Data and Network Security
- \* Defect and Fault Tolerance
- \* Information Forensics and Security

##### Network and Traffic Management

- \* Wireless Sensor Networks
- \* Mobile and Ad-hoc Networks
- \* Social Networks
- \* Network Coding
- \* Congestion Control
- \* Information Theory

##### Artificial Intelligence

- \* Bioinformatics
- \* Computer Vision
- \* Machine Learning
- \* Multimedia and Speech Processing
- \* Neural Networks
- \* Graphics
- \* Pattern Recognition

- \* Self Assembling Systems
- \* Data Mining

#### Parallel Distributed Systems and Computing

- \* Distributed Systems
- \* Molecular Computing
- \* Operating Systems
- \* Parallel Computation
- \* Quantum Computing
- \* Cluster and Grid computing

#### Computer Architecture

- \* Processor, Memory, and Storage Systems Architecture
- \* Parallel and Multi-Core Systems
- \* System and Network on Chips
- \* Application Specific, Reconfigurable, and Embedded Architectures
- \* Architectures for Emerging Technologies and Applications

#### Software Engineering

- \* Software Engineering Methodologies
- \* Formal Methods
- \* Theoretical Computer Science
- \* Yield Modeling in Emerging Technologies
- \* Performance Evaluation
- \* Engineering Applications
- \* Formal Languages
- \* Reliability Theory
- \* Risk Analysis

Note: Topics are not limited to the above categories.