

Programming Contest Hosting

presented at the

CCSC Mid-South 2011 Conference

April 1-2, 2011

Presented by:

Steve Baber, Harding University
Becky Cunningham, Arkansas Tech University
David Hoelzeman, Arkansas Tech University
Rick Massengale, University of Arkansas – Fort Smith

Organized by:

David Hoelzeman, Arkansas Tech University

Abstract

The Programming Contest Hosting Tutorial to be presented at the 2011 CCSC:Midsouth Conference is based on the experiences of the presenters' years of experience in hosting and/or participating in the ACM ICPC and CCSC-MS programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, software, and a networked problem submission software. The presenters will be David Hoelzeman and Becky Cunningham from Arkansas Tech University; Steve Baber from Harding University; and Rick Massengale from University of Arkansas, Fort Smith. In addition to the above tutorial presentation, Dr. Hoelzeman will be assisting in the programming contest held during the CCSC:Midsouth Conference.

Purpose/Objectives

The primary objective of the tutorial is to provide details of what is involved in hosting a programming contest in the style of the ACM International Collegiate Programming Contest that is held annually. The desired result is to provide information on what has worked and what hasn't worked, hopefully reducing the amount of mistakes a hosting site would make.

Significance/Need

With a minimum of two programming contests per year, each being possibly hosted by a different institution, the likelihood of a hosting institution not being familiar with the needed contest configuration is high, at least in the immediate future. To my knowledge, only three schools in the state have made use of the network submission software (PC²): Arkansas Tech University (first in the state to use it); Harding University; and University of Arkansas.

Summary and Conclusions

The presentation went well although it wasn't very well attended - probably just didn't interest anyone that wasn't anticipating hosting a contest in the immediate future. Surprisingly, the component that generated the most questions was the 'hospitality' related issues presented by Becky Cunningham. In retrospect, it would've been better had we stuck with setting up the presentation as a 'Workshop' (three hours) instead of a 'Tutorial' (1.5 hours) as we ran out of time for some of the technical discussions.

Midsouth Region

Consortium for Computing Sciences in Colleges



September 29, 2011 - 2:50 pm

Call for Papers

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Important Dates

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Programming Contest

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CCSC-MS: 2011 Conference Agenda

Conference Year:

Friday, April 1, 2011
Morning Workshop

[Brewer-Hegemen Conference Center Info and Layout\(479KB image inside!\)](#)

Brewer-Hegemen Conference Center: Front Desk (North Lobby) Registration
8:00am - 4:00pm

Brewer-Hegemen Conference Center: Room #1 Workshop I
8:30am - 11:00am
An Introduction to OpenMP
David Naugler Southeast Missouri State University
[Show/Hide Abstract](#)

Friday, April 1, 2011
Afternoon Sessions

Brewer-Hegemen Conference Center: Room #4 Welcome
11:15am - 11:30am
Larry Morell Arkansas Tech University
Vamsi Paruchuri University of Central Arkansas

Mathematics and Computer Science Building: #115 Programming Contest Lunch and Meeting
12:00pm - 1:00pm



systems, and in interdisciplinary research that applies computing to the geosciences. She has been a faculty member at the University of Arkansas since 1998.

Saturday, April 2, 2011
Morning Sessions

Mathematics and Computer Science Building
Concurrent Session IV
8:30am - 10:00am

A. Papers: Data Analysis **MCST #338**
Moderator: Matt **Arkansas Tech University**
Brown

Staging a Realistic Entity Resolution Challenge for Students
Yinle Zhou University of Arkansas at Little Rock
John University of Arkansas at Little Rock
Talbert

Sensitivity of Different Machine Learning Algorithms to Noise
Abhinav Atla University of Central Arkansas
Victor Sheng University of Central Arkansas
Naveen Singireddy University of Central Arkansas
Rahul Tada University of Central Arkansas

Improving Non-Small Cell Lung Cancer Classification Using Data Mining Techniques
Quoc-Nam Tran Lamar University

B. Tutorial IV **MCST #339**

Programming Contest Hosting
Steve Baber Harding University
Becky Cunningham Arkansas Tech University
David Hoelzeman Arkansas Tech University
Rick University of Arkansas at Fort Smith
Massengale

[Show/Hide Abstract](#)



This tutorial is based on the experiences of the presenters' years of experience in hosting and/or participating in the ACM ICPC and CCSC-Midsouth programming contests. The presentation covers all aspects of contest hosting including hospitality, problem development, hardware and network, programming related software, and the Programming Contest Control system (PC²) developed by California State University, Sacramento (<http://pc2.ecs.csus.edu/>). At the end of the tutorial the attendee should have implemented a simulated contest site on a single computer. Time permitting, a discussion or implementation of a multi-site setup will be made (depending on available resources).

C. Undergraduate Student Presentations I **MCST #329**
Moderator: Mark Goadrich Centenary College

Optimizing Parallax Barrier Tilt Viewing Angles Through Alternative Interlace Patterns
 Marcus Truscello, University of Central Arkansas
 Yu Sun (advisor)

A Parser-Generator For Building Extensible Grammars
 Stephen Pryor Arkansas Tech University
 Joshua Milligan Arkansas Tech University
 David Middleton Arkansas Tech University
 (advisor)

Quick Full-text Search
 Timothy Newman University of Arkansas at Fort Smith

An Elementary Virtual Environment For Building Interpreters
 Stephan Atkinson, Arkansas Tech University
 David Middleton (advisor)

Break **MCST #330**
10:00am - 10:15am

**Mathematics and Computer Science Building
 Concurrent Session V**
10:15am - 11:45am

A. Papers: Tools & Applications **MCST #338**
Moderator: Southeast Missouri State University
David Naugler



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September 29, 2011 - 2:49 pm

Call for Papers

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