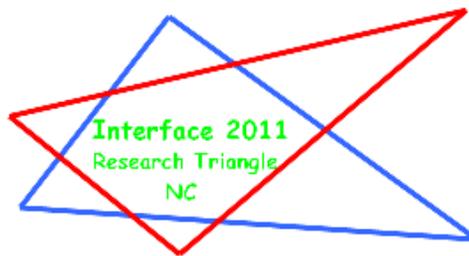ANNOUNCEMENT
and
CALL FOR PARTICIPATION

42nd Symposium on the Interface:
Computing Science and Statistics
Theme:
Statistical, Machine Learning and
Visualization Algorithms

June 1-3, 2011
SAS Institute Campus, Cary, North Carolina

Interface 2011
Research Triangle
NC

Interface 2011

Sponsored by
The Interface Foundation of North America

Hosted by
SAS Institute, Inc.

Financial Sponsors
SAS Institute, Inc.
ASA Section on Statistical Computing
ASA Section on Statistical Graphics
National Institute of Statistical Science

Cooperating Organizations
ASA, CSNA, ENAR, IASC, IMS,
INFORMS, SIAM, WNAR

This symposium is a long-standing forum focusing on the
interface between computing science and statistics.

An Invitation

The Interface Foundation of North America cordially invites you to participate in the 42nd Interface Symposium, the premier annual conference on the interface of computing and statistics. The Foundation is a non-profit educational corporation founded in 1987 to sponsor the symposium and publish the proceedings. IFNA also co-publishes the *Journal of Computational and Graphical Statistics*. For further information about IFNA visit our web site at http://www.interfacesymposia.org.

Call for Participation

In 2011, we are being hosted by the SAS Institute, Inc., which provides a powerful suite of statistical, data mining and business software including the JMP interactive statistical, visualization, and design of experiments software suite. Because of the opportunity provided by our presence on the SAS campus and the timeliness of interest in algorithms, this session of Interface is oriented to statistical, machine learning, and visualization algorithms. However, we invite papers and presentations from all areas of statistics, computer science and application areas relevant to algorithmic development. However, submissions need not be limited to algorithmic developments, but can include all of the topics covered in the Interface traditions. Discipline scientists are often at the frontier of work with new data types and we encourage them share their problems and solutions with us whether or not those solutions appeal to traditional statistical or data mining methods.

Sessions will include invited, special focus, refereed, and contributed paper sessions.

Invited sessions are organized by members of the Program Committee and designed to cover both the depth and breadth of current research related to the theme. See the section below on the Invited Program.

Special focus sessions are new this year: any participant can organize a special focus session on the topic of their choice by submitting a set of four or five abstracts related to the topic. The Program Chairs will review the abstracts and endeavor to keep the papers together in a devoted session. **Individuals who wish to propose a special focus session should submit their titles and abstracts by May 1, 2011**.

Refereed paper sessions offer participants the opportunity to develop their research records with a relatively rapid review process. Refereed contributions are to be full, conference-style papers (not to exceed 12 pages) **submitted by May 1, 2011.** They will be reviewed by members of the Program Committee or others appointed by the Program Chairs. Refereed papers which are accepted as such will be collected into special sessions and speakers will be given a full 30 minutes to present their results - the same as invited speakers. Papers submitted as refereed, but not accepted as such will still be part of the contributed program.

Contributed sessions will be organized by the Program Chairs from contributed abstracts, which are **due by May 1, 2011**.

Full instructions and an abstract submission form are available on the conference web site, **http://www.interfacesymposia.org/Interface2011/**. The proceedings will be published, for Interface 2011 in the form of a CD-ROM and online. Former page restrictions have been raised and color illustrations, animations, data, and software source code will be allowed.

The Venue

The Venue for Interface 2011 will be a newly opened Conference Center (Building C) on the SAS Campus. This ultra-modern Conference Center houses two auditoriums as well as a number of additional breakout rooms, and registration and display niches. There is a cafeteria below the presentation rooms. While it is conceivable to walk from the Embassy Suites hotel to the Conference Center, the distance is fairly substantial. The JMP component of SAS Institute will provide transportation between the Conference Center and hotel. The SAS campus is a beautiful place with rolling hills, superbly designed architecture, and a park-like atmosphere. As many of readers may know, the SAS Institute is rated by Fortune magazine as the top place to work in the USA. Incidentally, Wegman's Food Markets ranks number 3 and Google ranks number 4.

Accommodations

The Hotel for Interface 2011 will be the Embassy Suites located at 201 Harrison Oaks Boulevard in Cary, North Carolina. This is directly across the street from the SAS Campus, which makes a very convenient location. Their phone number is (919) 677-1840. The room rate is $99 per night, which includes free WIFI for Interface 2011 registrants, a cooked-to-order breakfast, and a free happy hour from 5:30 to 7:30 pm. The hotel will also provide transportation to and from the Raleigh-Durham airport (RDU) and to local restaurants so that car rental is not necessary. The two-room suites include refrigerator, microwave oven, coffee maker, two high definition televisions, work/dining table, ironing board and iron. The hotel has a fitness center, swimming pool, basketball courts, and tennis courts. Arrangements have been made for federal government employees to meet the government per diem of $90 per night, which must be paid with a government issued credit card.

Embassy Suites are part of the Hilton family of hotels so that frequent travelers can gain points on their HiltonHonors accounts. The hotel has made arrangements for Interface 2011 attendees with online booking at a special website, which is accessible from the Interface 2011 website, http://www.interfacesymposia.org/Interface2011/. The room block is for the period May 31 to June 3, 2011 and the bookings must be made by May 18, 2011. There is also a link to the general hotel website on the Interface 2011 website, which gives more details on their facilities, but do not book through that website.

Transportation

The Embassy Suites hotel and the SAS Institute Campus are easily reached from Raleigh-Durham International Airport (RDU). RDU serves the Research Triangle Park and Chapel Hill as well as Raleigh, Durham, and Cary, NC. RDU

is a modern airport serving some 41 destinations with more than 400 direct flights daily, including West Coast destinations to Los Angeles and Las Vegas and a European destination to London Heathrow. RDU is served by nine airlines including Air Canada, Air Tran, American, Continental, Frontier, jet Blue, Southwest, United, and U.S. Airways. RDU is located in the heart of the Research Triangle. There is a link on the Interface 2011 to a map that locates RDU in North Carolina and shows major Interstate highways serving RDU. The Embassy Suites hotel provides a shuttle service to and from RDU so that car rental is not necessary. If a rental car is desired, Alamo, Avis, Budget, Dollar, Enterprise, Hertz, National, and Thrifty agencies serve RDU. For more information on RDU, please consult the RDU website, http://www.rdu.com/.

The Embassy Suites hotel and the SAS Institute Campus are located just off of Interstate 40. From the North, Interstate 95 and then Interstate 85 connect with Interstate 40. From the West and South East, Interstate 40 is available easily. From the South, Interstate 95 connects to Interstate 40 near Dunn, NC. Using Google Maps or your GPS system will provide guidance. The street address of the hotel is 201 Harrison Oaks Boulevard, Cary, NC 27513. The street address of the SAS Institute is 100 SAS Campus Drive, Cary, NC 27513. The SAS campus has a guard gate and your name and sponsor must be provided for access. For this reason it is important that attendees who wish to drive on the SAS campus must be registered in sufficient time so that the information can be provided to the guards.

The Preliminary Program: Invited Sessions and Organizers

Keynote Address: *Challenges and Promising Responses to Improve Current Analysis, Biology, Collaboration and Determinism Dogma,* Arnold Goodman, Collaborative Data Solutions

- *Statistical Analysis of Attributed Graphs and Networks.* Organizer: David Marchette, Naval Surface Warfare Center, Dahlgren Division
- *Predictive Modeling.* Organizer: Georgiy Bobashev, RTI
- *Case Studies in Visualization.* Organizer: David W. Scott, Rice University
- *Tree Based Machine Learning.* Organizer: Adele Cutler, Utah State University
- *Business Analytics and Algorithms in Data Mining.* Organizer: Simon Sheather. Texas A & M University
- *Reproducible Research.* Organizer: Jürgen Symanzik, Utah State University
- *Visual Inference and Uncertainty.* Organizer: Roy Welsch, MIT
- *Business Knowledge and Networks in SAS Data Mining.* Organizer: David Durling, SAS Institute
- *Visualization in Support of Data Mining.* Organizer: Jeffrey L. Solka, Naval Surface Warfare Center, Dahlgren Division
- *Three Approaches to Large p Inference.* Organizer: David Banks, Duke University

- *Celebrating the 20th Anniversary of JCGS: Highlights at the Interface.* Organizer: Richard Levine, San Diego State University
- *Maps, Nets, Optimization and Profiling: Data Visualization, Modeling and Interpretation in JMP.* Organizer: Bradley Jones, JMP/SAS Institute *Algorithms for Data and Information Visualization.* Organizer: Adalbert Wilhelm, Jacobs University, Germany
- *Statistics of Function and Shape.* Organizer: Michael Schimek, Medical University of Graz, Austria
- *Best of Wiley Interdisciplinary Reviews: Computational Statistics.* Organizer: Yasmin Said, George Mason University
- *Statistical Issues in Weather and Climate Research.* Organizer: Richard Smith, SAMSI and UNC, Chapel Hill
- *Best of Statistical Analysis and Data Mining.* Organizer: Joe Verducci, Ohio State University
- *A Few Challenges on the Road toward Robot-Assisted ISR.* Organizer: Barry Bodt, Army Research Laboratory

Social Program

Two social events are planned for Interface 2011. There will be an opening evening (June 1) reception in the Embassy Suites hotel from 7:30 pm until 9:30 pm. The technical sessions at the SAS Conference Center will end at 5:30 pm. Participants registered in the Embassy Suites hotel have a complementary happy hour from 5:30 pm to 7:30 pm. The second event is the traditional Interface Banquet, which is a sit-down dinner. This will be held on June 2, 2011 beginning at 7:00 pm in the Embassy Suites. Some light hearted entertainment is planned. We will announce details soon, so keep a lookout for the details here. Again, the technical sessions at the SAS Conference Center will end at 5:30 pm and Embassy Suite guests may take advantage of the Happy Hour from 5:30 pm until time for the Banquet.

About the Area

SAS Institute is located in Cary, North Carolina just off of Interstate 40. It is located in Wake County near Raleigh, the capital of North Carolina. Raleigh has a number of highly regarded museums and other tourist attractions. Nearby are Chapel Hill, Durham and the Research Triangle. This area has an intense concentration of statistical expertise, including not only the departments in UNC, NC State and Duke, but also NISS and SAMSI. There are many commercial and government enterprises in the Research Triangle Park including high tech and pharmaceuticals. North Carolina boasts a unique combination of Museums, Historic Sites, Music Venues, National Parks, and a gentle Southern Culture. The Outer Banks have a nautical focus with great beaches and a tradition of historic sunken ships. The highlands include the Southern segment of the Blue Ridge Mountains with many scenic views and a strong sense of Appalachian mountain folk life. More about NC tourism can be found at the Visit North Carolina website or the North Carolina Tourism website, both of which have links on the Interface 2011 website. The Conference itself will be held on a Wednesday through noon on Friday. Participants may want to use Friday afternoon through Sunday to see some of the sights of North Carolina.

Caveat

Due to increased postage and printing costs, this is the only flier that will be sent by regular mail. The Interface 2011 website will be updated on a regular basis and a full-size registration form is available there. We have also curtailed the number of fliers we have sent out for the same reason. We will increasingly turn to electronic means of communication. Because of the curtailed number of fliers, we will not be able to reach all of the people who might be interested in the meeting. Please help us by spreading the word. We have also simplified the registration fee structure and have actually reduced the fees relative to what they have been in recent years. We hope these improvements will make attending Interface Symposia more attractive.

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Registration Fees
(IN US DOLLARS)

REGISTRANTS INCLUDES ONE BANQUET TICKET	BY MAY 18	AFTER MAY 18
ATTENDEES	$275	$325
STUDENTS	$150	$150
BANQUET TICKET	$65	$65

REGISTRATION FORM

MAIL TO: INTERFACE 2011, PO BOX 7460, FAIRFAX STATION, VA 22039. OR FAX TO: (703) 993-1700 attn: Elizabeth Quigley. ENQUIRIES: Elizabeth Quigley email: equigley@gmu.edu, phone: (703) 993-9107

NAME _____

JOB AFFILIATION _____

JOB ADDRESS _____

*_____

PHONE: _____

EMAIL ADDRESS: _____

CONFERENCE FEES
☐ EARLY BIRD (BEFORE MAY 18) $275

☐ LATE OR ONSITE (AFTER MAY 18) $325

☐ STUDENT $150

☐ GUEST BANQUET TICKETS (EACH) $65

TOTAL (CHECK ENCLOSED) $_____

OR CREDIT CARD

NAME AS IT APPEARS ON CREDIT CARD:
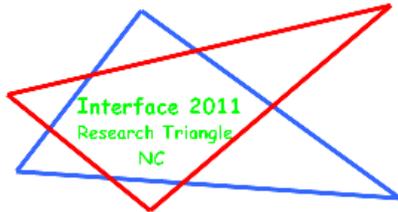
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Returned checks or denied credit cards will be rebilled with $30 surcharge. Make checks payable to Interface. No refunds are available after May 18, 2011. Interface will accept Visa, MasterCard, Discover, and American Express. If you wish to use a credit card please include the name, billing address, type of card, card number, the three- or four digit security code (found on the signature line on the back of the card), and expiration date of the credit card. Note: the regular registration includes a banquet ticket; student registration does not.

George Mason University, MS 4A7
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