

SECOND ANNOUNCEMENT AND REGISTRATION FORM

41st SYMPOSIUM ON THE INTERFACE:
COMPUTING SCIENCE AND STATISTICS

THEME:
COMPUTATIONAL STATISTICS AND HUMAN BEHAVIOR

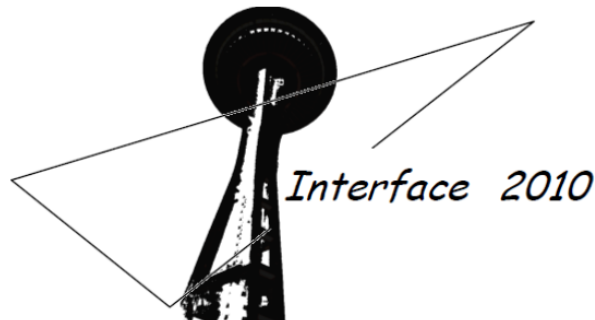
June 16-19, 2010
Seattle Westin
Seattle, WA

<http://www.interfacesymposia.org/Interface2010/>

KEYNOTE SPEAKER

ADRIAN E. RAFTERY
UNIVERSITY OF WASHINGTON

*Probabilistic Projections of HIV Prevalence Using Bayesian Melding with
Incremental Mixture Importance Sampling (IMIS)*



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

Invitation

The Interface Foundation of North America cordially invites you to participate in the 40th Interface Symposium, the premier annual conference on the interface of computing science and statistics. The Foundation is a non-profit educational corporation founded in 1987 to sponsor the symposium and to publish the proceedings. For further information about IFNA, visit our website at: <http://www.interfacesymposia.org>.

The theme of Interface 2010 is Computational Statistics and Human Behavior. In the modern world, there is an increasing interest in understanding human, societal, and cultural behaviors. This has spurred a new emphasis on computational social sciences and the understanding of social complexity. Statistics, the state science, naturally plays a key role in this illuminating this interest. Because social systems are large in scale and complexity computational statistics can play a central role.

The Keynote Speaker is Adrian E. Raftery. Adrian is the Blumstein-Jordan Professor of Statistics and Sociology and a faculty affiliate of the Center for Statistics and the Social Sciences and the Center for Studies in Demography and Ecology of the University of Washington. He is a member of the United States National Academy of Sciences, a Fellow of the American Academy of Arts and Sciences, a Fellow of the American Statistical Association, a Fellow of the Institute of Mathematical Statistics and an elected Member of the Sociological Research Association. He has won the Population Association of America's Clifford C. Clogg Award, the American Sociological Association's Paul F. Lazarsfeld Award for Distinguished Contribution to Knowledge, and the Jerome Sacks Award for Outstanding Cross-Disciplinary Research from the National Institute of Statistical Sciences. He is also a former Coordinating and Applications Editor of the *Journal of the American Statistical Association* and a former Editor of *Sociological Methodology*. He was identified as the world's most cited researcher in mathematics for the decade 1995-2005 by Thomson-ISI.

Contact Information

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Program Committee

Georgiy Bobashev (Research Triangle Institute), Barry Bodt (Army Research Laboratory), Hamparsum Bozdogan (Tennessee), David van Dyk (UC, Irvine), Arnold Goodman (Collaborative Data Solutions), Mark Handcock (Washington), Mark H. Hansen (UCLA), Tim Hesterberg (GOOGLE), David J. Marchette (Naval Surface Warfare Center), Rida Moustafa (Data Mining Technology), Rebecca Nugent (Carnegie-Mellon), Adrian E. Raftery (Washington), C. Shane Reese (Brigham Young), Yasmin H. Said (George Mason), Stephan R. Sain (National Center for Atmospheric Research), Michael G. Schimek (Karl-Franzens Uni of Graz), David Scott (Rice), Simon Sheather (Texas A&M), Jeffrey L. Solka (Naval Surface Warfare Center), William F. Szewczyk (NSA), Michael W. Trosset (Indiana), Antony Unwin (Augsburg), Edward J. Wegman (George Mason), Roy E. Welsch (MIT), Adi Wilhelm (Jacobs Uni)

Call for Participation

In 2010 we are focusing on modern problems related to the conjunction of computational statistical methods and the modeling of human, societal, and cultural behaviors. With the emergence of social networking software and the dramatically increased interest in understanding societal behavior and cultural behaviors, computational tools such as agent-based modeling and simulation and social network analysis have attracted considerable attention in academic circles as well as more clinical and applied settings. The 2010 Interface will focus on traditional computational statistics topics with an awareness of how our computational tools can enhance the quantitative and computational studies in the social sciences. We invite papers and presentations from all areas of statistics, computer science and application areas relevant to modern social science data analysis. However, submissions need not be limited to social science applications, but can include all of the topics covered within 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. Individuals who wish to participate in a contributed session should register and submit an abstract by May 1, 2010. Full instructions and an electronic abstract submission form are available at the Interface website <http://www.interfacesymposia.org/Interface2010>.

Registration

Interface Registration (including the Interface banquet) is \$275 before May 1 and \$325 after May 1 for regular members of Interface. For members of cooperating societies the registration is \$325 before May 1 and \$375 after May 1. For non-members the registration is \$385 before May 1 and \$440 after May 1. Students may register for \$125 before May 1 and \$150 after May 1. Interface Members may register for 1 short course for \$175 and for both short courses for \$235. Non-members may register for 1 short course for \$235 and for both short courses for \$350. Students may register for one short course for \$100 and for both short courses for \$125. Single day registration is available for \$125 before May 1 and for \$150 after May 1. Single day and student registrations do not include a banquet ticket. Additional banquet tickets are

available for \$50 before May 1 and \$65 after May 1. Returned checks or denied credit cards will be rebilled with \$30 surcharge. Make checks payable to Interface. No refunds are available after May 1, 2010. 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. In order to take a short course, one must be registered for the Symposium.

Hotel Accommodations

The Symposium site is the Westin in Seattle. The Westin in Seattle is located at 1900 5th Avenue, Seattle, Washington 98101, which is in the city center of Seattle. It is ideally situated near Seattle's best attractions and offers breathtaking views of Lake Union, Puget Sound, and the surrounding mountains. The facility is near the famous Space Needle linked to it by a monorail. A block of rooms has been reserved for Interface 2010 participants. The rates are as follows: Single: \$149, Double: \$149. The cutoff date for the special rates is 5:00 pm on May 17, 2010. Guest room reservations for attendees can be made either by calling The Westin Reservations Department 1-206-728-1000, or through the Central Reservations office in U.S. and Canada at 1-888-627-8513 or online using our StarGroups web site, <http://www.starwoodmeeting.com/Book/InterfaceFoundation2010>. The Group will be listed as INTERFACE FOUNDATION OF NORTH AMERICA in their reservations system. The hotel should honor the rates for the nights of June 15, 2010 - June 19, 2010. The Westin has made a concession to us so that all 2010 Interface Symposia attendees will have complimentary WiFi Internet access in their guestrooms. We strongly encourage all out-of-town attendees to stay in The Westin for two reasons: 1) the rates quoted are extremely competitive for the season and the location, and 2) Interface has committed to picking up a total of 280 room-nights. If we do not make this commitment, Interface will have to pay for the room nights not picked up, which could bankrupt Interface.

Transportation

The major airport is Seattle-Tacoma International Airport (SEA). Interface has arranged for discounted tickets on Alaska Airlines offering 7% discount with discount code ECCMB1268 and on American Airlines offering 5% discount with discount code 4760AT. Seattle's new Link light rail serves the airport, and the Westlake stop is two blocks from the Westin; peak service is every 7.5 minutes. The Seattle Downtown Airporter offers bus transportation between the airport and eight major hotels including The Westin. Tickets can be purchased from Gray Line of Seattle, online or at the airport. Service is every 30 minutes. Shuttle Express offers shared-ride service; reservations can be made online, or walk-in at the airport. For attendees traveling in groups of 2 or 3, a taxi can be an economical alternative transportation between the airport and The Westin in Seattle. Buses are free during daylight hours in the downtown Seattle area. Ride the monorail from the Westin, through the Experience Music Project/Science Fiction Museum, to the Space Needle, with views from 520 feet of Seattle, Puget Sound and the Olympic and Cascade Mountains.

About Seattle

The founding of Seattle is usually dated from the arrival of the Denny Party in 1851. The next April, Arthur A. Denny abandoned the original site for a better protected site on Elliott Bay that is now part of downtown Seattle. Seattle in its early decades relied on the timber industry, shipping logs and milled timber to San Francisco. The logging town developed rapidly over decades into a small city. Despite being officially founded by the Methodists of the Denny Party, Seattle quickly developed a reputation as a wide-open town, a haven for prostitution, liquor, and gambling. On July 14, 1873 the Northern Pacific Railway announced that they had chosen the then village of Tacoma over Seattle as the Western terminus of their trans-continental railroad. This set up a continuing rivalry between Tacoma and Seattle. Seattle made several attempts to build a railroad of its own. The Great Northern Railway finally came to Seattle in 1884. The early Seattle era came to a halt with the Great Seattle Fire of June 6, 1889. Started by a glue pot, the fire burned 29 city blocks almost entirely wooden buildings. It destroyed nearly the entire business district, all of the railroad terminals, and all but four of the wharves.

Modern Seattle rose from the ashes and has become the major metropolitan area in the Pacific Northwest. Some things to do besides Interface 2010 include The Space Needle with a 41-second elevator ride taking you up 520 feet to the observation deck from the 1962 World's Fair. The Pike Place Market, born 1907, is the granddaddy of farmers' markets. Today, it's a major tourist attraction with 200 businesses operating year-round, plus street performers and musicians. Ferries are a state of mind as much as a means of transportation to some of the Puget Sound's most historic and scenic sites with views of the Olympic and Cascade mountains, the Seattle cityscape and the green shorelines. The Underground Tour: After the Great Seattle Fire of 1889, the city was rebuilt over the top of the ruins. This guided tour takes visitors through the hidden subterranean passages that once were the main roadways and storefronts of old downtown Seattle. The Olympic Sculpture Park, on the downtown waterfront, offers outdoor art set against views of the Olympic Mountains. The Boeing Museum of Flight, 8 miles S of downtown, is a must for air buffs. The Ballard Locks are the busiest locks in the U.S. (come watch the mayhem), and offer underwater windows of migrating salmon.

Short Courses

Wednesday, June 16, 2010

Two short courses are planned: Agent-based Modeling and Simulation and Statistical Natural Languages and Text Mining. Agent-based modeling has become an increasingly important tool in understanding social systems. This area provides a rich source of stimulation for statisticians and computational scientists because comparatively little theory has been developed and thus is an area that can be exploited by theoretically minded investigators. Natural languages and text mining is likewise an area emerging as a fundamental tool for understanding human, social and cultural behaviors, especially for understanding emerging modes of thinking. This area is also ripe for deeper investigations.

Agent-Based Modeling and Simulation

Instructor: Dr. Tim Gulden

**Center for Social Complexity and Department of Computational Social Science
George Mason University**

This short course will provide an introduction to agent-based modeling. Topics covered will include the role of simulation in the social sciences, the place of agent-based modeling in the context of social simulation and its utility as a tool for developing understanding the causal mechanisms that produce aggregate results. We will review practical applications of agent-based modeling and explore the behavior of a selection of sample models. Finally, we will examine the NetLogo agent-based modeling environment and conduct a tutorial in basic NetLogo programming. At the end of the short course, participants should be familiar with the capabilities of the agent-based modeling paradigm and have the tools and resources to independently pursue further work in the area.

Biosketch for Dr. Tim Gulden

Timothy Gulden is a research assistant professor with the Center for Social Complexity in the Krasnow Institute for Advanced Study at George Mason University. His PhD is from University of Maryland School of Public Policy and his dissertation was entitled "Adaptive Agent Modeling in a Policy Context". He has been a visiting scholar at the Brookings Institution's Center for Social and Economic Dynamics (CSED) and attended the Santa Fe Institute's Complex Systems Summer School in 2002. From 1989 through 1999, he was the technical director of the GIS program for Westchester County, New York. His major project at present seeks to apply agent-based modeling techniques to the development of deeper understanding of civil violence in East Africa. His research interests range from methodological issues in the development and validation of agent-based models, through the development of methods for applying complex systems techniques and remote sensed data to furthering understanding the role of urban agglomerations in the process of globalization.

Statistical Natural Languages and Text Mining

Instructor: Edward J. Wegman

**Departments of Computational and Data Sciences and of Statistics
George Mason University**

This short course will discuss the basics of natural language processing and its application to text mining. We will begin with a discussion of the rationalist approach to language and compare it with the empiricist approach. This will lead to a discussion of statistical natural language processing. We will discuss some information theory foundations and describe linguistic essentials including morphology, semantics, syntax, lexicon and phrase structure. The course will then focus on decoding text, denoising, and stemming. Vector space models as well as other text coding models will be discussed. The range of text mining goals will be discussed and, in particular, some examples of text mining applications will be given. This short course will orient participants to some of the relevant literature and provide background to pursue further work in the area.

Biosketch for Edward J. Wegman

Professor Wegman received his B.S. in mathematics degree from St. Louis University in 1965. He received the M.S. and Ph.D. degrees in mathematical statistics from the University of Iowa, the latter degree in 1968. Subsequently, he spent 10 years on the faculty of the Department of Statistics at the University of North Carolina. Dr. Wegman's early career focused on the development of aspects of the theory of mathematical statistics. In 1978, Professor Wegman went to the Office of Naval Research (ONR) where he was the Head of the Mathematical Sciences Division. Dr. Wegman came to George Mason University. He is past Theory and Methods editor of the *Journal of the American Statistical Association*, has served as Chair of the National Research Council's Committee on Applied and Theoretical Statistics, and served on the Board of Directors of the American Statistical Association. He is currently co-Editor-in-Chief of the award-winning *Wiley Interdisciplinary Reviews: Computational Statistics*. His professional stature has been recognized by his election as Fellow of the American Statistical Association, the American Association for the Advancement of Science, the Washington Academy of Science and the Institute of Mathematical Statistics. Dr. Wegman has received the Navy's Meritorious Civilian Service Medal, the Army Wilks Medal, the American Statistical Association Founders Award, and the University of Iowa Distinguished Alumni Achievement Award. Dr. Wegman is the Bernard J. Dunn Professor of Data Sciences and Applied Statistics, the Founding Chairman of the Department of Statistics, and the Director of the Center for Computational Data Sciences.

Keynote Address

Adrian E. Raftery

**Probabilistic Projections of HIV Prevalence Using Bayesian Melding with
Incremental Mixture Importance Sampling (IMIS)**

Interface 2010 Invited Program

Computational and Statistical Issues in ABMs

Organizer: Georgiy Bobashev

Diglio Simoni (RTI)
Stephen Eubanks/Chris Barrett (VBI)
Ira Schwartz (NRL)
Stefano Merler (U. Trieste, Italy)

Uncertainty in Simulation Modeling

Organizer: Georgiy Bobashev

Jennifer Mathieu (MITRE)
Denys Yemshanov (Canadian Forestry)
Vanja Dukic (Chicago)
Schweta Bansal (Penn State)

Computational Social Science

Organizer: Adrian E. Raftery

Elena Erosheva (Washington)
Krista Gile (Oxford)
Peter Hoff (Washington)

Sampling and Inference for Hidden Networked Populations

Organizer: Mark Handcock

Krista Gile (Oxford)
W. Whipple Neely (Washington)
Steve Thompson (Simon Fraser)

Recent Computational Topics in Astrostatistics

Organizer: Rebecca Nugent

Andy Connolly (Washington)
David Friedenberg (CMU)
Ethan Anderes (UC Davis)

Robust Methods in Regression

Organizer: David W. Scott

Dennis Cox (Rice)
Robust Cross-Validation Using an L1 Criterion
Eric Chi (Rice and Baylor College of Medicine)
*Robust parametric classification and variable selection
with minimum distance estimation*
Jonathan Lane (Rice)
Parametric Methods for Smooth Quantile Regression

Separating the Wheat from the Chaff - Feature Selection in High-Dimensional Regression

Organizer: Tim Hesterberg

Leming Qu (Boise State)
*Copula density estimation by wavelet domain penalized
likelihood and linear equality constraints*
Pei Wang (Fred Hutchinson Cancer Research Center)
Bootstrap inference for network construction

Computing on Streams

Organizer: William F. Szewczyk

J. David Harris (National Security Agency)
Maria Ebling (IBM/T.J. Watson Research)
Omid Madani (SRI)

Computationally Intense Inverse Problems

Organizer: C. Shane Reese

Dave Campbell (Simon Fraser)
*Simplified Trans-Dimensional Model Jumping with
MCMC for Complicated Models.*
Earl Lawrence (Los Alamos National Laboratory)
*Emulating the Nonlinear Matter Power Spectrum for the
Universe*
Jiguo Cao (Simon Fraser)
Estimating Time-Varying Parameters in ODEs

Clinical Trial Safety, Decision Trees, and Clustering

Organizer: Roy Welsch

David Scott (Rice)
Hiding from Decision Tree Detectors
William DuMouchel (Phase Forward Lincoln Safety
Group)
*Multivariate Bayesian Logistic Regression for Analysis
of Clinical Trial Safety Issues*
Werner Steutzle (Washington)
Clustering as a Statistical Problem

Computer Models, Virtual Laboratories

Organizer: Stephan R. Sain

Derek Bingham (Simon Fraser)
Predictive Modeling of a Radiative Shock Physics
Shane Reese (BYU)
*Posterior Exploration for Computationally Intensive
Forward Models*
Steve Sain (NCAR)
Statistical analysis of regional climate model ensembles

All at See: Snapshots of Modern Visualization Research

Organizer: Antony Unwin

Jürgen Symanzik (Utah State)
Adi Wilhelm (Jacobs Uni)
Heike Hofmann (Iowa State)
Simon Urbanek (AT&T Research Labs)

JCGS Highlights: Graphical Methods

Organizer: David van Dyk

Adrian Raftery (Washington)
Combining Mixture Components for Clustering
Andrew Cron (Duke)
*Understanding GPU Programming for Statistical
Computation: Studies in Massively Parallel Massive
Mixtures*
Wayne Oldford (Waterloo)
*Pairwise Display of High Dimensional Information via
Eulerian Tours and Hamiltonian Decompositions*

Graphical Methods for Classification Based on Dimension Reduction

Organizer: Simon Sheather

David Tyler (Rutgers)
Charles Lindsey (Texas A&M)
Liliana Forzani (Universidad Nacional del Litoral)

Non-English Text Data Mining Via the Vector Space Model

Organizer: Jeffrey L. Solka

Nick Tucey (NSWC-DD)
Computing within the Foreign Vector Space Framework
Kristin Ash (NSWC-DD)
Wikipedia as a test bed for implicit translation
David Marchette (NSWC-DD)
An experiment in implicit translation

Statistical Analysis and Data Mining: Frontiers of Social Science and Network Science

Organizer: Arnold Goodman

Pedro Domingos (Washington)
Adrian Raftery (Washington)
Leland Wilkinson (Illinois@Chicago, Northwestern, SYSTAT)

Statistical Analysis and Data Mining: Frontiers of Problem Data and Solution Methodology

Organizer: Arnold Goodman

Usama Fayyad (Open Insights)
Jon Kettenring (Drew)
Michael Leblanc (Fred Hutchinson Cancer Research Center)
Roy Welsch (MIT)

Novel Methods: Symbolic Data, Layered Graphics Anatomy, and Census Layered Graphics

Organizer: Arnold Goodman

Lynne Billard (Georgia)
Hadley Wickham (Rice)
Jeremy Wu (Census)

Internet Data and Targeted Marketing, Seriation and Pattern Discovery, Plus Collaboration and Social Networks

Organizer: Arnold Goodman

Usama Fayyad (Open Insights)
Innar Liiv (Tallinn)
Arnold Goodman (Collaborative Data Solutions)

Quantitative Horizon Scanning

Organizer: David Marchette

Glen Coppersmith (JHU)
Jeffrey L. Solka (NSWC-DD)
Avory Bryant (NSWC-DD)

Interfacing Text Mining and Image Analysis

Organizer: Adalbert Wilhelm

Iulian Ilies (Jacobs)
Combining Text and Image Processing in an Automatic Image Annotation System
Edward Wegman (GMU)
Extraction of Endogenous Metadata for Text and Image Databases

Computational Statistics and Robotics

Organizer: Barry Bodt

Marshal Hebert (CMU)
Larry S. Davis (Maryland) and Aniruddha Kembhavi (Microsoft Bing)
Tsai Hong (NIST) and Barry Bodt (ARL)

Schedule

| Date | Events |
|-------------------|--|
| Wed. June 16 | Registration begins Interface ½ day Short Courses: Short Course I: Agent-Based Modeling and Simulation (8:00 a.m. - noon) Tim Gulden, George Mason University Short Course II: <i>Statistical Natural Languages and Text Mining</i> (1:30 p.m. - 5:30 p.m.) Edward Wegman, George Mason University Evening Mixer (8:00 p.m. - 10:00 p.m.) |
| Thurs. June 17 | Keynote Address (8:00 a.m. - 9:45 a.m.) Technical sessions begin (10:30 a.m. - 5:45 p.m.) Conference Banquet (7:00 p.m. - 10:30 p.m.) |
| Fri. June 18 | Technical sessions continue (8:00 a.m. - 5:45 p.m.) |
| Sat. June 19 | Technical sessions continue (8:00 a.m. - noon) |

Additional Sessions are being organized: **Learning from Proximity Data**, Michael W. Trosset; **New Developments in Statistical Data Integration**, Michael G. Schimek; **21st Century Applications of Agent-Based Models**, Yasmin H. Said; **Computational Epidemiology Applications to Public Health**, Yasmin H. Said; **Visualizing Intrusion Detection Data**, Rida E. Moustafa; and **Non-professional Practices of Data Collection and Analysis**, Mark H. Hansen.

REGISTRATION FORM – PLEASE PRINT LEGIBLY

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ENQUIRIES: Elizabeth Quigley (703) 993-9107

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CONFERENCE FEES

- | | | |
|---|--------------------------|---------------|
| <input type="checkbox"/> MEMBER (INTERFACE) | BEFORE MAY 1/AFTER MAY 1 | \$275 / \$325 |
| <input type="checkbox"/> MEMBER (COOPERATING) | BEFORE MAY 1/AFTER MAY 1 | \$325 / \$375 |
| <input type="checkbox"/> NON-MEMBER | BEFORE MAY 1/AFTER MAY 1 | \$385 / \$440 |
| <input type="checkbox"/> STUDENT | BEFORE MAY 1/AFTER MAY 1 | \$125 / \$150 |
| <input type="checkbox"/> SINGLE DAY (NO BANQUET TICKET) | BEFORE MAY 1/AFTER MAY 1 | \$125 / \$150 |
| <input type="checkbox"/> ONE/TWO SHORT COURSE(S) (INTERFACE MEMBER) | | \$175 / \$235 |
| <input type="checkbox"/> ONE/TWO SHORT COURSE(S) (NON-MEMBERS) | | \$235 / \$350 |
| <input type="checkbox"/> ONE/TWO SHORT COURSE(S) (STUDENTS) | | \$125 / \$150 |

GUEST BANQUET

TICKETS @ \$50 / \$65 EACH \$ _____

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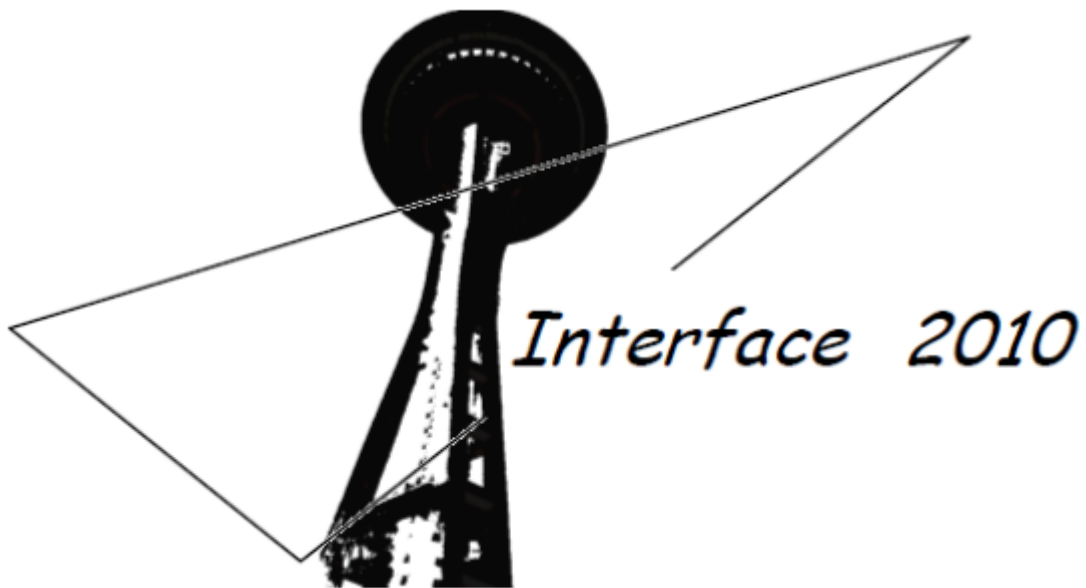
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