



2013 ACC: Call for Papers

Join us in Washington, DC, for the 2013 ACC, Mon-Wed, June 17-19
<http://www.a2c2.org/conferences/acc2013/>

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The 2013 American Control Conference will be held Monday through Wednesday, June 17-19, at the Renaissance Washington, DC Downtown Hotel, which is centrally located in Washington, DC.

The ACC brings together an international community of researchers and practitioners to discuss the latest findings in control research and practice. The ACC is the annual conference of the American Automatic Control Council (AACC, the U.S. national member organization of the International Federation for Automatic Control (IFAC)). National and international society co-sponsors of the ACC include the American Institute of Aeronautics and Astronautics (AIAA), the American Institute of Chemical Engineers (AIChE), the American Society of Civil Engineers (ASCE), the American Society of Mechanical Engineers (ASME), the IEEE Control Systems Society (IEEE-CSS), the International Society of Automation (ISA), the Society for Modeling & Simulation International (SCS), and the Society for Industrial & Applied Mathematics (SIAM).

The conference will feature a plenary lecture "*Advanced Motion Control for High Tech Systems*" by Maarten Steinbuch and a semi-plenary lecture "*Game Theoretic Learning with Applications to Networked Control Systems*" by the 2012 Eckman Award winner Jason Marden. Additionally, semi-plenary lectures will be presented on the three (underlined) theme tracks: (i) Societal Challenges for Control, "*Event-Based Optimization of Stochastic Systems and Its Applications to Social, Financial, and Engineering Problems*" by Xi-Ren Cao; (ii) Sustainability, "*The Key to a Successful Next Generation of Buildings: Controlling for Energy Efficiency*" by Paul Torcellini; and (iii) Smart Healthcare Systems "*Intelligent Surveillance and Decision Support in Healthcare Systems*" by Markus Fromherz. As a new item, the conference program includes a public lecture on "*How We Interact with Robots, Feedback Loops, and Autonomous Systems: Historical Perspectives and a Look Forward*" by David A. Mindell.

The 2013 ACC will include several kinds of presentations in regular and invited sessions, tutorial sessions, and special sessions along with workshops and exhibits.

Call for Contributed Papers: Papers are invited in the form of regular manuscripts (allotted 6 Proceedings pages). There is no separate short paper format. Papers must conform to the submission policy, detailed on the conference web page. All manuscripts should be written in English, be in 2-column format, and meet strict page limits.

Call for Invited Sessions: Invited sessions consist of 6 papers presenting a unifying theme from a diversity of viewpoints. Proposals must clearly describe the motivation and relevance of the session. Proposals must be accompanied by full versions of each paper, which will be individually reviewed together with the proposal itself.

Call for Tutorial Sessions: Tutorial sessions are a special category of invited sessions organized to provide an introduction to a topic of interest. The format is structured around a main tutorial paper (up to 18 pages) and talk (60 minutes) to bring the participants up to speed, followed by three presentations (with or without papers of up to 6 pages each) to give a picture of the state of the art. Tutorial sessions involving strong industry and academic collaboration are highly encouraged.

Call for Special Sessions: Special sessions offer a venue for creating awareness of, and providing exposure to emerging research areas, research and funding opportunities, and other topics of broad interest to the conference attendees. History and industry-sponsored sessions also fall into this category.

Call for Workshops: Workshops to be held prior to the conference are solicited on all related topics. Proposals for workshops addressing novel control methodologies and nonstandard control applications, as well as workshops with strong tutorial value are encouraged.

Exhibits: Exhibits are invited that showcase control-related publications, applications, products, services, and demonstrations --- these will be open to all attendees of the ACC.

All papers and session and workshop proposals must be submitted through the conference submission website, www.a2c2.org/conferences/acc2013/. Submissions must conform to the policy found at the conference website.

KEY DATES

Draft Manuscripts:

due September 17, 2012

Acceptance/Rejection Notice:

by January 31, 2013

Final Manuscript Submission:

due March 15, 2013



Information about Washington, DC – where the 2013 ACC will be

Washington, DC presents ample tourist opportunities, including famous museums, a world-class zoo, extensive restaurants, and a booming theatre district. Here you can step back into the history of the United States and also explore the frontiers of science in the same afternoon.



There is plenty to see within easy walking distance of the conference hotel, and even more a short subway ride away, so automobiles are optional. However, those who prefer to drive can easily also see such sites as the NASM Udvar-Hazy Center (the new home of the Shuttle Discovery and an SR-71 Blackbird), Virginia Beach, Jamestown, Annapolis, and Gettysburg (site of the decisive battle of the American Civil War). Participants can get a lot out of the city by spending extra days exploring the area or simply a summer evening wandering along the National Mall (above photo) making this ACC a great one for having the family tag along. The conference hotel will hold the conference rate on available rooms from June 11 to June 24 in 2013 on a space-available basis.

Monuments and Memorials: The National Mall is an open park in downtown Washington, DC that spans the area between the Lincoln Memorial and the United States Capitol building, and many prominent monuments (and museums) are on or near the Mall. For example, the Washington Monument (in photo) is situated near the center of the Mall. It was built to honor George Washington, who was the first President of the United States of America.



Several memorials, including the National World War II Memorial, the Korean War Veterans Memorial, and the Vietnam Veterans Memorial, are located on the Mall. The Tidal Basin (photo below by Destination DC), around which are the Franklin Delano Roosevelt Memorial, the Jefferson Memorial, the Martin Luther King, Jr. Memorial, and the District of Columbia War Memorial, is just south of the Mall.



Smithsonian Museums: The Smithsonian Institution is an educational foundation chartered by Congress in 1846 that maintains most of the nation's official museums and galleries in Washington, DC, and many of these are also along the National Mall. Since the Smithsonian is partly funded by the US Government, its museums are open to the public free of charge. One of the Smithsonian museums



located on the Mall is the National Air and Space Museum (NASM, see photo), which has the largest collection of historic air and spacecraft in the world and houses many artifacts intimately tied to control. The

Conference Banquet Dinner will be at the NASM on June 18, 2013.



There are more than a dozen other Smithsonian museums on and near the National Mall. These include the National Museum of Natural History, the National Museum of African Art, the National Museum of American History (which houses one of the largest collections of flyball governors on the planet, as well as Stanley (in photo above), the autonomous vehicle that won the original DARPA Grand Challenge, and the restored Star Spangled Banner that inspired America's National Anthem), the National Museum of the American Indian, the Hirshhorn Museum and Sculpture Garden, the Arts and Industries Building, and the Smithsonian Institution Building, which is locally referred to as "The Castle" and serves as the institution's headquarters (see photo below). Closer to the ACC13 conference hotel is the Smithsonian American Art Museum and the National Portrait Gallery, both of which are located in the Donald W. Reynolds Center, near Chinatown. The National Zoo, which is a metro subway ride away in Woodley Park, is also part of the Smithsonian.



Other Museums: There are many other museums throughout Washington, DC. The National Gallery of Art is also located on the National Mall and while the US government owns its collections, it is not part of the Smithsonian Institution. Selected other museums include the International Spy Museum, which is just a few blocks from the ACC13 hotel, and the US Holocaust Memorial Museum located near the Washington Monument.

The Arts: Washington, DC is a thriving center for the arts. For example, the John F. Kennedy Center for the Performing Arts on the Potomac River (photo by Carol Pratt) is home to the National Symphony Orchestra, the Washington National Opera, and the Washington Ballet. It presents great performers and performances from America and around the world. Additionally, the National Theatre, Warner Theater, and the historic Ford's Theatre are all located in downtown Washington, DC, not too far from the ACC13 conference hotel. Moreover the Capitol Steps, a hilarious satire group of politics and pop culture, perform every Friday and Saturday evening at the Ronald Reagan Building and International Trade Center, a few blocks from the conference hotel.



Sports Fans: A number of professional sports teams make their home in Washington, DC. While the Redskins (NFL), Capitals (NHL), and Wizards (NBA) will be out of season in June, the Mystics (Women's NBA), the Nationals (Washington's MLB team), and DC United (men's soccer) will be in action at the time of the ACC.

For other dining, local attractions, events near the conference venue, links to metro information, and updates to this information, etc., see the conference website.