

2016 American Control Conference: Call for Papers

July 6-8, 2016, Marriot Copley Place Hotel, Boston, MA (USA) (<http://acc2016.a2c2.org/>)



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The 2016 American Control Conference will be held Wednesday through Friday, July 6–8 at the award-winning [Boston Marriott Copley Place](#), centrally located in the Back Bay district of Boston. The conference venue is connected to the Copley Place Mall with lots of shops, restaurants, and a large grocery store, and is within minutes of the historic sites like Trinity Church, Boston Common and the Public Garden, Kenmore Square, Beacon Street, and Fenway Park, the home of the Boston Red Sox. Other sites like Harvard Square, MIT, Faneuil Hall, the Freedom Trail, the Bunker Hill Monument, and the New England Aquarium are easily accessible via Boston's famous subway, "The T".

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 ACC include American Institute of Aeronautics and Astronautics (AIAA), American Institute of Chemical Engineers (AIChE), American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), IEEE Control Systems Society (IEEE-CSS), International Society of Automation (ISA), Society for Modeling & Simulation International (SCS), and Society for Industrial & Applied Mathematics (SIAM).

ACC 2016 will feature two semi-plenary lectures tied to robots helping people: "Controlling the Next Generation of Bipedal Robots and Robotic Assistive Devices" by the 2015 Eckman Award winner Aaron Ames and "Therapeutic Robotics: Challenges of Controlling Physical Interaction" by Neville Hogan. A unique tandem semi-plenary lecture "Open-Ended Control Challenges in the Oil Service Industry" by Jason Dykstra and Karlene Hoo will discuss the chemical process control opportunities at the bottom of an oil well. Delphine Dean will talk about how very precise measurements can inspire societal work in "Nano to Really Macro: How working with AFMs can help with design of medical devices for hospitals in resource poor countries". Our plenary lecture features Lucy Pao describing mechatronic control systems from the very large to the very small in "Combined Feedforward/Feedback Control of Flexible Structures: Recurring Themes across Diverse Applications". In our Public Lecture, Stephen Boyd will describe how algorithms are hidden in modern smart devices in the public lecture "System Theory and Optimization in Everyday Life: The Growing Role of Hidden Algorithms in Smart Products and Systems". The 2016 ACC technical program will comprise several types 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.

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 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: Exhibitors are invited to showcase, demonstrate and market control-related publications, software tools, educational products, services, and jobs. Exhibits are open to all attendees of the ACC.

All papers and session and workshop proposals must be submitted through the conference submission website. All submissions must conform to the policy found at the conference website: <http://acc2016.a2c2.org/>. Manuscripts should be written in English, be in 2-column format, and meet strict page limits.

KEY DATES

Initial Manuscript Submission:

September 27, 2015

Acceptance/Rejection Notice:

by January 31, 2016

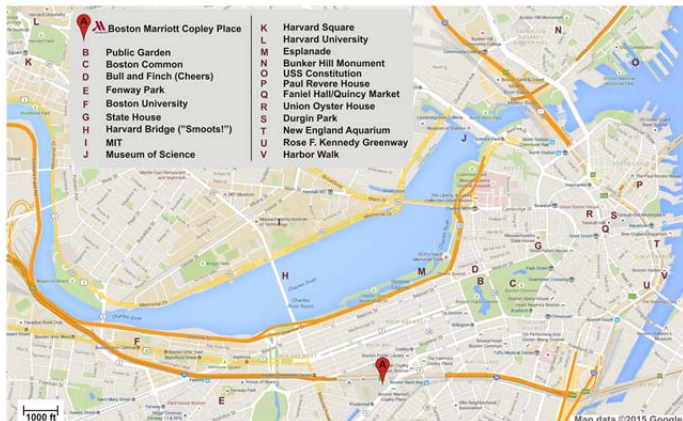
Final Manuscript Submission:

due March 15, 2016

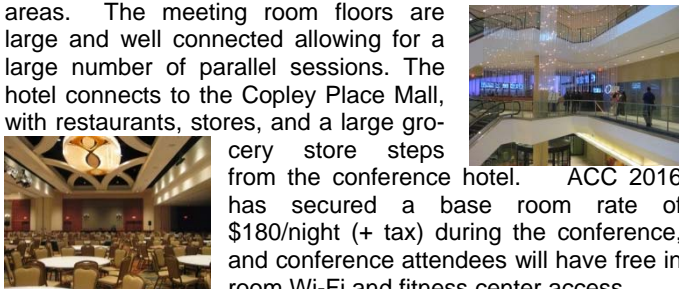


Information about Boston – site of the 2016 ACC

Boston, MA is the United States' second oldest city, steeped in traditions, and dotted with major research universities. The weather in early July is moderate and the week of July 4 brings the traditions of American Independence Day. Many of the events associated with the run up to the American Revolution can be found in Boston, making the week of July 4 an ideal combination of place and time for the American Control Conference. The conference venue, the Marriott Copley Place, is located in the Back Bay, a few steps from historic sites like Trinity Church, Boston Common and the Public Garden, Kenmore Square, Beacon Street, and Fenway Park, the home of the Boston Red Sox. Other sites like Harvard Square, MIT, Faneuil Hall, the Freedom Trail, the Bunker Hill Monument, and the New England Aquarium are easily accessible via Boston's famous subway, "The T".



The Marriott Copley Place: The conference venue is a large, modern hotel in Boston's Back Bay. The hotel features large common areas, including the registration, exhibit, and ballroom areas. The meeting room floors are large and well connected allowing for a large number of parallel sessions. The hotel connects to the Copley Place Mall, with restaurants, stores, and a large grocery store steps from the conference hotel. ACC 2016 has secured a base room rate of \$180/night (+ tax) during the conference, and conference attendees will have free in room Wi-Fi and fitness center access.



Getting Around: The easiest way to get around Boston is usually a combination of walking and the MBTA (Massachusetts Bay Transit Authority), simply known as "The T." While MBTA comprises bus, train, commuter boat, and subway/light rail service, most people mean the latter when they say, "The T." The nearest T stops are Old South Church and Prudential, both on the Green Line. There is free MBTA service on the Silver Line from Logan Airport to South Station (the main train station into the city from points south and west). MBTA Blue Line service is available to and from Logan, and as this connects to the Green Line it is considered most convenient path from Logan to the hotel.

The New England Aquarium is one of the premier aquariums in the world. At the time it opened in 1970, its large circular tank was the largest in the world. We will host the conference banquet there on the evening of Thursday, July 7. Extra tickets for family and guests will be available for purchase at cost through registration.



The Back Bay and Fenway: The conference neighborhood stretches from the Public Garden on the east to Charlesgate E. in the west, and from the Charles River at the North. Fenway Park is to the west. The Charles River Esplanade, where the Boston Pops play on July 4, is in Back Bay.



Boston Common and the Public Garden: A mere 6 blocks (15 minute walk) from the conference hotel, the Boston Public Garden is known for its iconic pond and bridge, as well as the Swan Boats that will delight small children and be one item off the bucket list for adults. Adjoining the Public Garden is Boston Common, which takes its unique shape from its original use as a common ground for grazing cattle. (This also accounts for the layout of Boston's streets.) It is still a location of greenery and relaxation year round for the locals. Fans, young and old, of the children's story, *Make Way for Ducklings*, delight in seeing the statue of Mrs. Mallard and her brood (Jack, Kack, Lack, Mack, Nack, Ouack, Pack, and Quack) on their way to the pond of the Public Garden. On Beacon Street, visitors will also find the Bull and Finch, the local bar made famous by the American television series, *Cheers*.



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The North End and Beyond: This area was originally settled by Italian immigrants and is the origin of the local saying, "Wednesday is Prince Spaghetti Day." Following the Freedom Trail across the Charles, one arrives at the mooring place of the U.S.S. *Constitution* (now a museum). Commissioned by President George Washington, it got its nickname, "Old Ironsides", from the live oak wood harvested from South Carolina swamps, which seemed to make it impervious to cannon fire. It is still a commissioned ship of the US Navy. The area also hosts the monument to the Battle of Bunker Hill, fought on nearby Breed's Hill, and famous in part for the order given to the Continentals to not fire until they saw the whites of the enemy's eyes.



Faneuil Hall/Quincy Market: An original marketplace for the city, this area not only features more tourist shops per acre than most other parts of the city, but also some famous restaurants including Durgin Park, known for its large portions and interesting wait staff, and the nearby Union Oyster House, the oldest continuously running restaurant in the country. Famed abolitionist and 19th century Massachusetts Senator, Daniel Webster, is said to have frequented the oyster bar there.



The Harbor Area and Rose Kennedy Greenspace: The completion of the *Big Dig* which buried a substantial portion of the Massachusetts Turnpike has connected the Quincy Market area with the harbor area. What were once the unsightly Central Artery is now the Rose Kennedy Greenspace and it is a beautiful run/walk from the harbor area up past Quincy Market to the North End.



Updates and details will be at: <http://acc2016.a2c2.org/>.