

INFORMATION PACKAGE

WORKSHOP ON STOCHASTIC EIGEN-ANALYSIS & ITS APPLICATIONS

WEB.MIT.EDU/SEA06

HOSTED BY
DEPARTMENT OF MATHEMATICS

SPONSORED BY
PROF. ARTHUR BAGGEROER
&
PROF. ALAN EDELMAN

JULY 10 –14, 2006.
STATA CENTER: ROOM 32-D463



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GENERAL INFORMATION

WORKSHOP

The workshop on Stochastic Eigen-Analysis and Its Applications (SEA'06) is being hosted at MIT Stata Center by the Department of Mathematics. Enclosed in this package is an agenda.

WORKSHOP SCHEDULE

SEA'06 will be held from Monday, July 10, 2006 through Friday, July 14, 2006 in the MIT Stata Center in Room 32-D463.

Registration and breakfast is at 9 am on both days. Talks end at 5.30 PM on most days except on Wednesday and Friday.

There is a group excursion planned for Wednesday afternoon after the morning session.

WORKSHOP ADVISORY COMMITTEE

Workshop Chairmen

Prof. Arthur Baggeroer (MIT)

Prof. Alan Edelman (MIT)

Technical Chairmen

Dr. Steven Smith (MIT Lincoln Laboratory)

Dr. Christ Richmond (MIT Lincoln Laboratory)

Dr. James Preisig (WHOI)

N. Raj Rao (MIT)

Matthew Harding (MIT)

REGISTRATION

Attendance at the workshop is *by invitation only*. There is *no registration fee* for attending the workshop.

WEB ADDRESS

Up-to-date information on the SEA'06 workshop will be available on the web at web.mit.edu/sea06.

ACCOMMODATIONS

Hotel reservations are the responsibility of the attendees. If assistance is required, please contact Ms. Shirley Entzminger at 617-253-4347.

TRANSPORTATION

Transportation will be the responsibility of the attendees. For guests staying at the Hotel at Kendall Square, the workshop venue is right across the street. For guests staying at the [Warehouse Apartments](#), the workshop venue is about a 5 minute walk away. Stata center is located on 32 Vassar Street, Cambridge, MA 02139.

GROUP EXCURSION

A group excursion on the Boston Duck Tours is planned for Wednesday afternoon at 1 pm, departing from the workshop venue itself followed by dessert at “*Finale*” (Park Plaza). No registration is required. We have reserved spots for all the speakers. Guests of speakers and other attendees may also join on a space-available basis.

MESSAGE CENTER

MIT CSAIL Operator: 617-253-6218

Message Center: 857-891-8303
(during workshop only)

Shirley Entzminger: 617-253-4347

N. Raj Rao: 857-891-8303

E-Mail: sea06@mit.edu

DIRECTIONS

SEA'06 will be held at the MIT Stata Center located at the northeastern edge of the MIT campus on Vassar Street near the intersection with Main Street. It is also known MIT Building number 32. It is a very unique building (see cover image and picture below). On Mapquest or Google Maps you may get directions by typing in "32 Vassar Street, Cambridge, MA 02139".

By Public Transportation (commonly called "The T"):

Subway: Take the Red Line to the Kendall/MIT Station (cost is \$1.25). When you exit the T, walk Northwest, up Main Street (you will pass the MIT Coop and Legal Seafoods). When you come to the second intersection (Vassar St.), the Stata Center is the [very unique building](#) to your left.

Bus: The #1 ("Dudley" bus) stops at MIT on Massachusetts Avenue (cost is 90 cents). The MIT stop is at a large crosswalk with a stop light. On one side of the street are steps leading up to large Ionic columns and the Small Dome of MIT, on the other side of the street is the Stratton Student Center (Building W20) and Kresge Oval (an open, grass-covered area). To get to the CSAIL, walk North (so that the steps are on your right) on Mass. Ave. Take a right at the first intersection (Vassar St.). Walk until you see the [very unique building](#) on your right at the corner of the next major intersection (Main St.). More detailed public transportation maps and schedules are available from the [MBTA](#).

From Logan International Airport: Taxi: Taxi fare from the airport is about \$25-\$30. Under normal traffic conditions the taxi ride will take about 25 minutes.

Subway: From any terminal at Logan airport, take the airport shuttle bus to the Blue Line subway station. Take the Blue Line to the Government Center station. Go upstairs and take the Green Line to Park Street. At the Park Street station, go downstairs and take the Red Line to Kendall/MIT (take the outbound train toward Alewife). Under normal conditions the ride will take about 45 minutes. From the T stop, follow the directions above.

Car: The drive from Logan Airport can be rather nasty, depending on traffic conditions. Take the Sumner Tunnel exit from the airport (not the Ted Williams Tunnel) and follow the signs toward Boston via the Sumner Tunnel. The tunnel toll is \$3. As you exit the tunnel, take the ramp onto the expressway (I-93 North). Take the second exit, marked 'Storrow Drive West'. Immediately take the right fork of the road to a stoplight. Turn left, then immediately turn right [and drive over the](#) Charles River on the Longfellow Bridge. At the second traffic light after the river, take a left onto Ames Street and then a right onto Main Street. CSAIL will be on your left in the very unique building at the corner of Main and Vassar Street.

From I-95 (North or South):

Take Exit 26, and follow the signs to Back Bay along Storrow Drive West, approximately 1.5 miles, to the exit for Route 2A. The exit will be on the left, just before the Harvard Bridge (more appropriately called the Massachusetts Avenue Bridge). The Charles River will be on your right. As you cross the Harvard Bridge, you will be looking at MIT. Continue 1 block on Mass. Ave., until you reach Vassar St. Take a Right on Vassar St. SEA'06 is on your right in the [very unique building](#) at the corner of Vassar and Main.

From I-93 (North or South):

Take the I-93 Exit and follow the directions above. From the Massachusetts Turnpike (I-90) (West):

Follow I-90 East to the Cambridge/Brighton exit (Exit 18). Following the signs to Cambridge (down the ramp to the right, then straight), cross the River Street Bridge, and continue straight about 1 mile to Central Square. Turn right onto Massachusetts Avenue and follow Massachusetts Avenue for about a half mile. If you cross the river again, you have gone too far. Bear left onto Main Street at the sculpture park. Follow Main Street for about 1/2 mile to the [very unique building](#) at the corner of Vassar St.



The MIT Stata Center: Venue of SEA'06.

The map above shows the venue for SEA'06 in the context of Massachusetts Avenue, Vassar Street, Main Street, Memorial Drive, and the Charles River. The location of the Conference Housing facility (NW-30) is also shown for reference.

PARKING

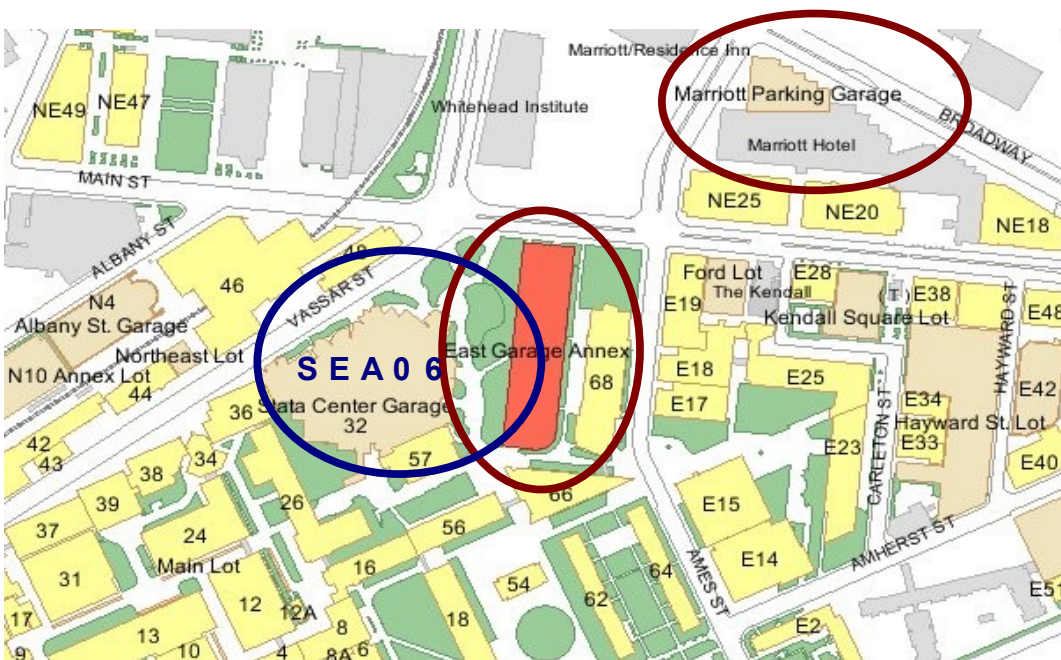
For non-speaker attendees with their own private car, there are two parking options during weekdays.

MIT Public Parking

There is *limited* reserved parking on Friday for *invited speakers only upon request* at the East Garage Annex of MIT on the corner of Main Street and Vassar Street adjacent to the Stata Center. A visitor tag is needed to be able to park in this lot; the parking attendant present will provide invited guests with this tag. Please note that parking is extremely limited; please take note of the paid parking option below.

Paid Parking

Parking is available for a fee in Marriott parking garage on Ames Street between Legal Seafoods and Quantum Books.



Parking options near MIT Stata Center. The East Garage Annex will have reserved parking on a space available basis. SEA'06 is held in the MIT Stata Center, located at the corner of Main street and Vassar Street. Paid parking is available at the Marriot Parking Garage.

SCHEDULE OF TALKS

Talks highlighted in **Red** are survey/tutorial style talks.

<i>Time Slot</i>	<i>Monday, July 10, 2006</i>	<i>Tuesday, July 11, 2006</i>	<i>Wednesday, July 12, 2006</i>
9:00 – 10:00	<i>BREAKFAST</i>	<i>BREAKFAST</i>	<i>BREAKFAST</i>
10:00 – 10:30	<i>Opening Remarks</i>	Steven Smith	James Sethna
10:30 – 11:00	Arthur Baggeroer	Debashis Paul	Marc Timme
11:00 – 11:30	Dennis McLaughlin	Robb Muirhead	Plamen Koev
11:30 – 12:00	Iain Johnstone	Yasuko Chikuse	Matthew Harding
12:00 – 1:00	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
1:00 – 1:30	Noureddine ElKaroui	Arno Kuijlaars	Duck Tours Excursion
1:30 – 2:00	Momar Dieng	Arno Kuijlaars	Duck Tours Excursion
2:00 – 2:30	Roland Speicher	Petr Seba	Duck Tours Excursion
2:30 – 3:00	Roland Speicher	Jinho Baik	Dessert at Finale
3:00 – 3:30	<i>BREAK</i>	<i>BREAK</i>	Dessert at Finale
3:30 – 4:00	Christ Richmond	Joseph Guerci	Dessert at Finale
4:00 – 4:30	Olivier Besson	Alexei Onataski	
4:30 – 5:00	Daniel Bliss	Sourav Chatterjee	
5:00 – 5:30	Jack Silverstein	Percy Deift	
5:30 – 6:00	Reserved	Percy Deift	
<i>Time Slot</i>	<i>Thursday, July 13, 2006</i>	<i>Friday, July 14, 2006</i>	
9:00 – 10:00	<i>BREAKFAST</i>	<i>BREAKFAST</i>	
10:00 – 10:30	Brian Sutton	Roland Speicher	
10:30 – 11:00	Brian Rider	Michael Anshelevich	
11:00 – 11:30	Güler Ergün	Vladislav Kargin	
11:30 – 12:00	Zdzislaw Burda	<i>Closing Remarks</i>	
12:00 – 1:00	<i>LUNCH</i>		
1:00 – 1:30	Eitan Bachmat		
1:30 – 2:00	Tomohiro Sasamoto		
2:00 – 2:30	Michael Anshelevich		
2:30 – 3:00	Michael Anshelevich		
3:00 – 3:30	<i>BREAK</i>		
3:30 – 4:00	James Mingo		
4:00 – 4:30	Ioana Dumitriu		
4:30 – 5:00	Reza Rashidi Far		
5:00 – 5:30	Nizar Demni		

SPEAKERS INFORMATION

FORMAT

Invited (non-tutorial) speakers are asked to prepare presentations between 20-25 minutes long. There will be 5 minutes allocated for questions and discussions.

Electronic presentations should be in Microsoft Power Point or PDF format.

AUDIENCE

We expect a large audience of non-specialists, especially from the engineering and scientific community who are eager to learn about random matrices.

We encourage the speakers to keep their presentations at a level understandable to a first-year engineering graduate student. We have scheduled plenty of time for discussion so that finer technical details and subtleties can be elaborated on off-line.

VIEWGRAPHS

The workshop sponsors and participants appreciate clear and legible presentations. Toward the goal of consistent quality and legibility, we ask that presenters adhere to the following guidelines when preparing their viewgraphs.

Typeface

- Set regular text using a bold 18-point font. A bold sans serif font such as Arial or Helvetica is preferred for its readability in a large auditorium.
- Other sized fonts may be used as necessary, such as bold 28-point for titles, bold 16-point for sub-points, etc. However, do not use a font size smaller than 14-point, and always use bold fonts.

Format

- Orient the viewgraphs horizontally, i.e. in LANDSCAPE mode.
- Visually center all viewgraphs within a 9" by 7" area, with at least a 1/4 inch margin inside the frame.
- Limit your viewgraphs to 10 lines of text. Wider comprehension is aided by succinct visuals.

Graphs and Tables

- Use 2-point rules for curves. Do not use line widths smaller than 1-point anywhere on graphs or tables.
- The same rules for fonts above applies to text within all graphs and tables. It is recommended that axis labels and table headings be set with at least a 16-point font.

Images

- Ensure that all images such as photographs, artwork, etc., can be photocopied legibly. High

contrast images are more easily reproduced.

- Ensure that all text appearing in the image is large and legible.

The viewgraphs on a large screen behind the speaker. Speakers are provided with a podium, microphone, laser pointer, and a cordless presenter connected to a Windows XP laptop.

*It is the responsibility of the speakers to ensure that **electronic copies of their presentation are submitted to Raj Rao by Friday, July 7, 2006.*** Please also have the copy for submission during registration / check-in.

Presentations are to be e-mailed to sea06@mit.edu. *Additional equipment can be provided on explicit request.*

PROCEEDINGS

The presentations will constitute the proceedings of the workshop. They will be collected at the time of registration on Monday, July 10. They can be emailed to sea06@mit.edu; otherwise they may be handed during registration on a CD-ROM.

DEADLINES

SPEAKERS

Title, Abstract due **Friday, June 16th**

Electronic presentation in PDF or Microsoft Power Point Format due **Friday, July 9th**