



DIPARTIMENTO DI MATEMATICA

Rep. n.49/2017 – Prot. n. 632 dated 16.10.2017

Application for the Summer School
in “**Mathematics in Imaging Sciences**”
University of Bologna, Accademic Year 2017-2018
Application Deadline: February 15, 2018

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Article 1 (General Informations)

The Department of Mathematics at the Alma Mater Studiorum University of Bologna, headquartered in Bologna, organizes for the academic year 2017-2018, a 5-day Summer School in Mathematics in Imaging Science, in English.

The “Mathematics in Imaging Science” Summer School (School-IS18) will take place at the University of Bologna, in Bologna, Italy and is co-organized in the framework of the Cooperation Agreement between University of Bologna, Bologna, Italy, Georgia Institute of Technology, Atlanta, GA, USA and University of California, CA, USA

Topics: Basics and applications in imaging, PDE for image analysis, Optimization, Computational Topology in Imaging, Neuromathematics of Vision, Computational Imaging, Vision, Cognition and Mathematics.

Dates: May 28 - June 1st, 2018

School-IS18 is co-located with the Conference SIAM-IS18 (June 5-8, 2018), the biennial SIAM Conference on Imaging Science, one of the world’s largest, most influential biennial event in imaging science and mathematical aspects in imaging.

The Summer School aims to introduce graduate students to the mathematical and computational aspects of imaging science. The target audience is PhD and appropriate MS students in mathematics and related fields such as computer science, statistics, engineering, and science.

School-IS18 is organized in morning and afternoon sections. In addition to the morning lectures given by renowned lecturers on a wide range of topics from image processing, numerical optimization, and computer vision, in the afternoons students participate in mono-thematic mini-workshops on advanced research topics on imaging science.

More information and a link to the online application is available on the site: <https://site.unibo.it/summer-school-siam-is18/en>

Participation is compulsory. The minimum frequency is 80%.

Summer School students will receive a certificate of attendance to recognize their participation in the course. The certificate of attendance to the Summer School is conditioned to attaining the minimum participation percentage of 80%.

Participants may require to take a final test the passing of which will be reported in the certificate of attendance.

The maximum number of participants is 30.

Article 2 (Requirements)

The Summer School is reserved for candidates who, upon the expiration of this call:

- are PhD students, MS students or Graduate Students, or,
- have a Graduate Degree, Postdoc or a researchers position,

in Mathematics and related fields such as Computer science, Statistics, Engineering, and Science.

The Summer School grant referred to in art. 4 is reserved only for candidates who, upon the expiration of this call, are PhD students or MS students, in Mathematics and related fields such as



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Computer science, Statistics, Engineering, and Science.

Article 3 (Application)

To submit an application for the school support, go to the web page <https://site.unibo.it/summer-school-siam-is18/en/info-for-participants/registration-grants>.

Applicants must complete and submit the application form for the school participation and upload the following materials (in English) by **February 15, 2018 at 1.00 pm (GMT+1)**:

- a detailed Curriculum Vitae
- one letter of recommendation
- SWORN AFFIDAVIT Form (the form is downloadable from the on-line registration webpage) to self-certificate the possession of the access requirements according to Art. 2 of this call.

All submissions must be in PDF format, enclosing a photocopy of an ID document/passport.

Applicants accepted in the program will be notified by **February 28, 2018** via e-mail. By the same date the possible assignment of the grant will be notified.

Applicants must confirm their participation and the acceptance of the grant by **March 11, 2018** via e-mail at the address summerschool-is18@unibo.it.

In the absence of confirmation, the candidate will be considered a defeatist and it will proceed to the sliding of the ranking.

Article 4 (Grants)

The University of Bologna is offering the following grants for covering travel and accommodation expenses for the participants to the Summer School:

- 4 grants, € 1000,00 each, for participants (PhD students or MS students) from Extra European Union (EU) Institutions;
- 8 grants, € 500,00 each, for participants (PhD students or MS students) from EU Institutions.

When submitting the request of participation candidates in possession of the requirements may ask to be admitted to the selection for the assignment of the grants.

The grants will be assigned as a refund of travel and accommodation expenses, documented by the following receipts to be submitted by the persons concerned:

- transportation tickets for the reimbursement of travel expenses;
- invoice or receipt of payment, issued by the host structure for the reimbursement of the expenses for accommodation.



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Article 5 (Evaluation of candidates)

The comparative evaluation of the candidates will be carried out on the basis of the Curriculum Vitae and the letter of recommendation submitted.

The selection Committee appointed by the Council of the Department of Mathematics is composed by the following members

- Serena Morigi, Fiorella Sgallari, Nicola Arcozzi (Actual Members);
- Damiana Lazzaro, Alessandro Lanza, Carolina Beccari (Alternate Members).

At the end of the call, the Committee will establish a ranking for the participation to the Summer School. This ranking will include all candidates who are in possession of the requirements and will be used for the replacement of candidates who will resign.

The top 30 candidates in the ranking will be admitted to the Summer School.

A € 1,000.00 grant will be awarded to the first 4 students from non-EU Institutions who have applied for it and are in possession of the requirements.

A € 500.00 grant will be awarded to the first 8 students from EU Institutions who have applied for it and are in possession of the requirements.

Article 6 (Renunciation)

Students who do not sign up must immediately send an e-mail to summerschool-is18@unibo.it, enclosing a photocopy of an ID document/passport so that the positions can be reassigned.

The granting students of the contribution referred to in art. 4 who do not obtain the certificate of attendance to the summer school, are not entitled to the required reimbursement for travel and accommodation expenses.

Article 7 (Informations and contacts)

For more information, contact summerschool-is18@unibo.it

School Chair: Prof. Serena Morigi

School Committee:

Nicola Arcozzi, Giovanna Citti, Massimo Ferri, Marco Lenci, Fiorella Sgallari

Secretariat: Greta Piovani

The selection procedure manager is the Head of the Department, prof. Giovanni Dore

Article 8 (Processing of personal data)

The personal data of the candidates will be handled by the University of Bologna, the holder of the treatment, for the purpose of managing the competition procedure and any registration process in compliance with the principles and provisions on the protection of personal data and the protection



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of the confidentiality established from Legislative Decree 30 June 2003, no. 196.

Bologna, 16.10.2017

**Il Direttore del Dipartimento
Giovanni Dore**