

EURO Summer Institute on Online Optimization at the University of Szeged

First call for papers

The OR Society of Hungary is pleased to announce a EURO Summer Institute (ESI) on Online Optimization. The ESI will take place at University of Szeged, from **15th to 27th June in 2015**, and the homepage of the event can be found at <http://www.eswi.u-szeged.hu>.

Theme

In online optimization, an algorithm must make its decisions based only on past events without any solid information about future data. Such algorithms are called online algorithms. Since an online algorithm makes its decisions based only on partial information, without knowing the whole instance in advance, we cannot expect it to give the optimal solution that can be produced by an algorithm that has all the necessary information. This is why the output of each of these algorithms should be compared with those produced by using optimal offline algorithms.

Contributions on closely related areas like semi-online optimization and online aspects of algorithmic game theory are also welcomed from the students. The senior keynote speakers will cover the recent results and solution techniques of some special topics (bin packing, scheduling, clustering, generalizations of competitive analysis) and also discuss open problems of the area.

Location

The Summer Institute will be organized at Szeged. This city is the seat of Csongrád County and the Dél-Alföld region and it is one of Hungary's economic, educational and cultural centers. The city is located in South-East Hungary about 170 km far from Budapest, it is close to the Serbian and the Romanian borders. The event will be organized at University of Szeged, which is one of Hungary's most distinguished universities. The university is located in the center of the city, many of the faculties are placed in old historical buildings.

Background

EURO Summer and Winter Institutes (ESWI) provide an excellent forum for PhD students and early career researchers to discuss their research at length with experts in the field, as well as forming links with other early stage researchers. For further details, see

<http://www.euro-online.org/web/pages/458/summerwinter-institutes>.

Format of ESWI

Around twenty early stage researchers from the EURO member societies will be invited to participate at the ESWI. They must be very early career academics (PhD students and/or those who have less than two years research experience post PhD). They have to present the material of an unpublished piece of work, discussing it with others and with the invited senior experts in the field. The ESI will also present a series of lectures by the invited senior experts. After the ESI, the papers can be submitted to a special issue of an OR publication (**TBA**).

Apart from the senior experts, no one can participate in an ESWI more than once in their lifetime. Participation in an ESWI should be regarded as a great honour. In other words, the main objective of an ESWI is to provide a limited number of carefully selected representatives of the next generation

with a unique opportunity to establish a personal network and address an international audience; and thus create new research groups around the chosen topic.

EURO provides a substantial contribution towards all the ESWI expenses 'on location' (room and board, social programs, etc.) and sponsorship is being sought to meet the remaining part of these expenses. The travel costs, however, must be borne by the participants themselves, eventually with the support of their national OR societies.

Applicants have to submit an unpublished paper to the Scientific Committee, along with a curriculum vitae. The Committee will select and rank the candidates on the basis of submitted papers, and afterwards channel this information to the national OR societies for funding decisions. Candidates who fulfil the eligibility rules but exceed the quota of 20 participants might be accepted, in a limited number, in the ESWI. These candidates should cover their own expenses. Fees will be also required, but their amount will be specified later.

Interested candidates are asked to notify us in advance in order to help us assess the likely number of participants. Please send an email to esi15@inf.u-szeged.hu if you are planning to submit a paper.

Important dates

15th October 2014	deadline for interested candidates to notify us
31st January 2015	deadline for submission of applications
15th March 2015	selection of Candidates by the Scientific Committee and communication to the National OR Societies
15th June- 27th June 2015	ESWI at the University of Szeged
30th September 2015	submission of final versions of papers for publication in the special issue

Scientific Committee (the same as the list of the planned senior speakers)

- Joan Boyar (University of Southern Denmark)
- Leah Epstein (University of Haifa, Israel)
- Sándor Fekete (TU Braunschweig, Germany)
- Gábor Galambos (University of Szeged, Hungary)
- Csanád Imreh (University of Szeged, Hungary)
- Piotr Krysta (University of Liverpool, United Kingdom)
- Jiri Sgall (Charles University Prague, Czech Republic)
- Gerhard Woeginger (TU Eindhoven, The Netherlands)

Organizing committee

- János Balogh (University of Szeged, Hungary)
- József Békési (University of Szeged, Hungary)
- János Csirik (University of Szeged, Hungary)
- György Dósa (University of Pannónia, Hungary)
- Tibor Illés (University of Budapest, HORS representative)
- Csanád Imreh (University of Szeged, Chair of the ESI)
- Miklós Krész (University of Szeged, Hungary)
- Attila Tóth (University of Szeged, Hungary)