

CALL FOR ALIO SCHOLARS
ELAVIO 2018 - Escuela Latinoamericana de Verano en Investigación Operativa
(Operations Research Summer School for Young Latin American Scholars)
March 04th to March 9th 2018, Marbella, Chile

The Summer School. The first edition of ELAVIO was held in Chile in 1994. Since then, the School has run the event every summer to promote education in operational research among young researchers and graduate students (PhD and Master's degree levels).

The purpose of ELAVIO is to stimulate new collaborations and encourage the involvement of young people in OR by bringing them up to date on research topics through short courses and plenary conferences. Participants also have the opportunity to present and discuss their works. At all previous editions of the School, a strong sense of camaraderie developed, solidifying contacts between the members of research groups from different countries.

ELAVIO XXII will be held in 2018 in Chile from March 4th to March 9th, in Marbella located 170 km (106 mi) north of Santiago on the Pacific coast. Marbella is an attractive tourist destination known for its beautiful beaches that should significantly enrich the experience for participants. Hosting the event will be the University of Chile, Chile's main centre for scientific and academic activity.

Registration for ELAVIO XXII and the Opening Ceremony will take place on Sunday, March 4th at the University, in Santiago City, on Sunday afternoon a bus chartered by the School will transport invited professors and students to Marbella. Over the following 5 days, a range of mini-courses and tutorials on advanced topics of specific interest will all be held at the Marbella Resort (<http://www.marbella.cl/>). Closing Ceremony will take place on Friday morning, and that afternoon the bus will transport back all the participants to Santiago.

Topics covered by the School include, but are not limited to, the following:

1. Combinatorial optimization and polyhedral theory; linear, nonlinear and integer programming.
2. Graph theory.
3. Metaheuristics and its applications.
4. Discrete, continuous and agent based simulation, stochastic processes and probabilistic models.
5. Applications of operational research to problem solving in areas such as sustainability, health care, logistics, sports, agroindustry, engineering, telecommunications, finance and production, big data.

The School is organized by the University of Chile (Santiago, Chile) and sponsored by: ICHIO (Instituto Chileno de Investigación Operativa), ISCI (Instituto Científico Milenio Sistemas Complejos de Ingeniería), ALIO (Asociación Latino-Iberoamericana de Investigación Operativa); and IFORS (International Federation of Operational Research Societies).

The Scholarship. The ELAVIO 2018 organization is offering 50 scholarships for advanced undergraduate students, postgraduate students or young PhD from Latin America, Spain and Portugal who want to attend this event. The ELAVIO 2018 organization is offering 50 scholarships for advanced undergraduate students, postgraduate students or recent doctors from Latin America, Spain and Portugal who want to attend this event.

The applicant is required to:

- To have done work in the fields of interest of the School;
- to be at an early stage of her/his career;
- to present an unpublished work in the poster session;
- to be highly recommended by the advisor/supervisor of her/his work;

Those candidates satisfying the requirements are encouraged to submit their curriculum vitae, an extended abstract (up to 1 page) of the work to be presented in the poster session, and a recommendation letter by the advisor until November 15th, 2017 to:

1. IFORS Vice President for ALIO, Prof. Guillermo Durán, gduran@dm.uba.ar
2. ALIO President and ELAVIO Chair. Prof. Jaime Miranda, jmirandap@fen.uchile.cl

The selected applicant will be notified by November 30th, 2017. Candidates from developing countries will have an advantage in the selection.

The official languages of the school are English, Spanish, and Portuguese. Participants can make their posters in any of these languages. Short courses and lectures will be given in any of the official languages (with English slides).