NOTICE OF SELECTION FOR ASSIGNMENT OF GRANTS
FOR TEMPORARY RESEARCH FELLOWSHIPS

THE DIRECTOR OF THE DEPARTMENT OF MATHEMATICS
OF THE UNIVERSITY OF PADUA

According to Law No. 168 of May 9, 1989;
According to the Charter of the University of Padua;
According to art. 22 of Law No. 240 of December 30, 2010, which regulates the awarding of research grants;
According to Legislative Decree No. 17 of January 9, 2008, relative to admission of citizens of foreign countries for scientific research purposes;
According to the current “Research funding plan” of the University;
According to the current regulations of the University for awarding research grants;
According to Ministry Decree No. 102 of March 9 2011, which established the minimum yearly amount of grants awarded to research fellows;
Deeming it is proper to publish a notice of selection for awarding No. 1 grant for temporary research fellowship;

DECREES:
Art. 1 - Subject

A public selection process is established to award 1 (one) research grant within the scope of the research program called: “Cutting plain procedures for Integer Programming” at the Department of Mathematics (hereinafter: the hosting Department) of the University of Padua under the supervision of Professor Michelangelo Conforti, principal Investigator of the research project. The research grant, for a period of 12 (twelve) months and for a gross amount of Euro 21.304.00 per year, is published pursuant to the "Regulations for awarding research grants for self-funded research programs".

The research grant, funded by Fondazione Cassa di Risparmio di Padova e Rovigo, will enable the researcher to perform the research activity: the project aims at increasing the theoretical knowledge of some tools for solving Integer programming problems. The emphasis will be on the relative strength of general purpose cutting plane procedures which have been extensively studied in literature, and have a wide application in practice. In particular, we will study and computationally evaluate the strength of multi-row relaxations of mixed integer linear programs, compared to the more traditional split cut family. In addition, we aim at understanding to what extent (and under which conditions) split cuts are stronger than Chvátal cuts.
Art. 2 – Admission requirements

To participate in the selection the applicant must have a Ph.D. in Mathematics, or be admitted to the defense of the Ph.D. dissertation, or have a scientific and professional curriculum of at least three years of research in the field of this program after getting a Bachelor degree in Mathematics. The applicant must have reached these requisites before the application date, but not earlier than 8 years before the same date. Extensions of this period are possible in some cases.

For degrees obtained abroad, the course must be declared equivalent, solely for selection purposes, by the Head of the Selection Board.
For selection purposes, documents demonstrating qualifications must be provided in an original or certified copy - on unstamped paper - or may be self-certified with a substitutive notary deed declaration accompanied by a photocopy of a valid identity document according to current legislation (attachment A - forms section).

Applicants are admitted to the selection with reservation. The Head of the procedure may - at any time - exclude an applicant from the selection procedure for lack of the admission requirements.

The research grant cannot be awarded to contracted staff in the public and private sector, including part-time and temporary employees.

The research grant cannot be awarded to students enrolled in undergraduate courses, Master courses, Ph.D. programs with scholarship or medical specialization courses in Italy or abroad, and implies placement on unpaid leave for employees in service with public administrations.

Participation in selection is not allowed for relatives and kin up to the fourth degree of:
- the teaching staff of the Department which has issued this notice;
- the Rector of the University;
- the Administrative Director of the University;
- members of the Board of Directors of the University.

Permanent employees of universities, research and experimentation institutes or public bodies, the National Institute for New Technologies, Energy and Sustainable Economic Development (ENEA), the Italian Space Agency (ASI) and institutions whose scientific specialization qualifications have been recognized as equivalent to a Ph.D. pursuant to article 74, fourth paragraph, of Presidential Decree no. 382 of 11 July 1980, cannot participate in selection.

Art. 3 – Application form

The applicant must send a signed and dated application form, compiled following the enclosed form, to:

Director of the Department of Mathematics, Via Trieste, 63, 35121 PADOVA

via registered mail with return receipt within 15 days from the date of publication of this notice on the Official Register of the University; otherwise the applicant will be excluded.
Should the aforementioned deadline fall on a public holiday, the same is postponed to the next working day.
The application will be deemed submitted within the deadline if sent by registered mail within the aforementioned deadline (for this purpose, the date of the post office postmark is valid).

The applicant must enclose with the application:
  a) a photocopy of a valid identity document: identity card or passport;
  b) a dated and signed scientific and professional curriculum;
  c) a list of submitted titles and publications, signed on each page;
  d) documents, qualifications and publications considered relevant in demonstrating aptitude for research activities.
  e) two letters of references from professors or researchers of Italian or foreign Universities or Research Institutes

European Union citizens can self-certify all academic and professional qualifications. Publications can be submitted in original or in copy. Non-EU citizens must enclose a translated and certified copy of academic qualifications.

Art. 4 – Selection procedure

The selection is carried out by a Board, appointed by the Director of the hosting Department, composed of three experts in the field of the research, including the Principal Investigator.

The Board will perform a comparative evaluation of all applicants based on the titles, publications, scientific and professional curriculum and on letters of references from professors or researchers of Italian or foreign Universities or Research Institutes.

The interview may take place in the form of a videoconference, provided the identity of the candidates can be proven and the interview is carried out correctly and in public form.

The applicant’s evaluation will result in assignment of points, up to a maximum of 100, according to the following criteria:
  - academic qualifications: up to 30 points (of which 20 for a Ph.D. degree related to the research field);
  - scientific curriculum: up to 20 points
  - publications: up to 20 points
  - letters of references: up to 30 points.

After evaluation, a ranking of suitable applicants will be published in the Official Register and on the Website of the University. To be considered suitable, an applicant must get at least 50 points. In the case of a tie, preference is given to the younger candidate.

The winner of the selection must sign the research grant contract before the deadline communicated by the hosting Department; otherwise he/she will lose the right to the fellowship in favor of the second-ranked applicant.
Art. 5 – Subscription of the contract

The research grant is governed by a specific individual contract between the winning applicant and the hosting Department. The research activity cannot be started before the signature of this contract.

The research grant will be paid in monthly installments in arrears.

The research grant is not an employment and does not give any rights to be hired by the University.

Art. 6 – Incompatibility

The research grant cannot be combined with other scholarships, except those awarded by national or foreign institutes to supplement research activities of temporary research fellows with permanence abroad.

The research fellow may not enroll in other University courses at any level, not even in optional courses without scholarship.

The research fellowship is not compatible with:
  a) any kind of employment;
  b) professional activity as a self-employed worker;
  c) employment with the University of Padua, except occasional collaborations and activities mentioned in the following article 7.

Art. 7 – Activity of the research fellow

The research fellow will do the tasks defined in the contract under the direction of the Principal Investigator, who will verify the fellow’s activity. The tasks concern a specific research activity, not mere technical support.

The research fellow must work full time at the research project, except for teaching activities up to 50 hours per year, provided that these activities do not interfere with the carrying out of the research activities. The teaching activities can be the following:

* Supplementary and support teaching, workshops, assistance in laboratory; these activities can be paid and must be recorded in a synthetic log, signed by the fellow and by the course supervisor;
* Participation in examining boards as an unpaid external expert;
* Tutor, according to the provision of the rules of the University for tutorship.

The above-mentioned activities must be authorized by the Faculty Board at the request of the fellow and after the authorization of the Principal Investigator.

The fellow may carry out activities in favor of spin-offs pursuant to article 2 of Legislative Decree 297/99, with the approval of the Principal Investigator.

Subject to authorization of the Principal Investigator and of the Director of the hosting Department, the research fellow may perform sporadic collaboration with external institutions, provided that the additional activity:
• is compatible with the carrying out of the research project for which he/she is paid;
• is not in conflict of interest with the fellow’s activity or other research projects of the Department;
• does not harm the University.

**Art. 8 – Secrecy and intellectual property**

All data and information subject to secrecy agreements disclosed to the research fellow for scientific purposes must be considered reserved by the research fellow, who will keep the secrecy on such data and information.

Intellectual property rights, including the right to file patent applications, of the results of the research performed by the fellow are regulated by the regulations of the University for patents.

**Art. 9 – Taxes, social security and insurance**

Regarding income tax, the research grant is subject to the provisions of article 4 of Law no. 476 of August 13, 1984 as well as, regarding social security, to those referred to in article 2, paragraphs 26 and following of Law no. 335 of August 8, 1995 and subsequent amendments, regarding compulsory maternity leave, to the provisions of the Ministry of Labor and Social Welfare Decree of July 12, 2007, published in the Official Gazette no. 247 of October 23, 2007 and, regarding sick leave, to article 1, paragraph 788, of Law no. 296 of December 27, 2006 and subsequent amendments. During a period of compulsory maternity leave, the benefits paid by INPS under article 5 of the aforementioned Decree of July 12, 2007 are supplemented by the University up to the full amount of the research grant.

The University will take care of personal accident insurance and third-party liability insurance for the research fellow on the conditions provided by the standard policy of the University of Padua.

**Art. 10 – Evaluation of the fellow’s activity**

For a research grant longer than 12 months, after each year the fellow must submit a report to the Director of the hosting Department to illustrate the activities carried out and the results obtained. These reports, accompanied by the opinion of the Principal Investigator, will be evaluated by the Department Board. In case of negative evaluation, the research grant contract can be terminated by the University, without further notice.

At the conclusion of the research grant, the fellow must submit a final report to the Director of the hosting Department to illustrate the activities carried out and the results obtained. This report, accompanied by the opinion of the Principal Investigator and of the Director of the hosting Department, must be sent to the Research Office of the Central Administration of the University and will be evaluated by the Board of the Scientific Area.
Art. 11 – Safeguard clauses

For that which is not stated in this notice, please refer to Law No. 240/2010, D.M. of February 11, 1998 and the current regulations of the University of Padua for the awarding of research grants.

Pursuant to Legislative Decree no. 196 of 2003 and subsequent amendments and supplements, personal data provided by the candidate are processed exclusively in order to manage this selection and the subsequent contract with the research fellow.

To settle any claims, the Italian version of this notice is legally valid.

Padua, 08.08.2012

The Director of the Department of Mathematics
Prof. Bruno Viscolani
APPLICATION FORM

TO THE DIRECTOR OF THE DEPARTMENT OF MATHEMATICS

The undersigned

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requests

to participate in the public selection process for a grant for a temporary research fellowship at the Department of ... of the University of Padua within the scope of the research program called “...”.

Being aware of the penal sanctions for false declarations as established by art. 76 of Presidential Decree No. 445/2000, the undersigned

declares:

1. to be a citizen of ________________________

2. not to hold posts at universities or other institutions listed in art. 22, paragraph 1, of Law 240/2010

3. not to have relationships of marriage, kinship or affinity within the fourth degree included with:
   - the teaching staff of the Department which has issued the notice;
   - the Rector of the University;
   - the Administrative Director of the University;
   - members of the Board of Directors of the University.
   and undertakes to provide notification should the above occur at a later date.

4. to possess a Master of Science in ______________________ obtained in the Academic Year ______________ at the University of ___________________________ with marks of ______________________

5. to hold the title of Ph.D. in ______________________ obtained on ______________ in the Academic Year ______ at the University of ___________________________ with the following assessment __________________ and to have/not have benefited from a scholarship.
6. To have carried out a documented research activity after the awarding of the Master degree in the field of research related to the fellowship.

The undersigned declares furthermore:

- That the contents of the scientific and professional curriculum are true;
- That the following documents submitted in copy:
  1.________________________________________________________
  2.________________________________________________________
  3.________________________________________________________

correspond to the originals.

The undersigned encloses a photocopy of a valid identity document and authorizes the University of Padua to use the personal data provided with this application exclusively in order to manage this selection and the subsequent contract with the research fellow, in application of Legislative Decree No. 196 of 2003.

Date

Signature