

Lettre MODE
octobre 2017

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1- Postdoc position at Université Pierre et Marie Curie (Paris 6)

(source : R. Laraki)

A postdoc position is available at Université Pierre et Marie Curie (Paris 6) in the Combinatorics and Optimization team of the Institut de Mathématiques de Jussieu - Paris Rive Gauche, supported by the ANR Project CAPPS (Combinatorial Analysis of Polytopes and Polyhedral Subdivisions).

This is a 18 months position. The starting date is expected to be before September 2018, but it can be negotiated. The salary depends on the candidate's experience (at least around 2100€/month).

Applicants should possess a PhD in mathematics or computer science and research experience pertinent to some of the research topics of the project. The successful applicant will conduct research on combinatorial aspects of convex polytopes with Arnau Padrol and other members of the ANR CAPPS (<https://webusers.imj-prg.fr/~arnau.padrol/CAPPS>).

Interested candidates should send their application to arnau.padrol@imj-prg.fr, preferably by the end of 2017. Please include your CV, a short research statement and a publication list. Letters of recommendation are optional, but contact information of at least two references should be provided. They might be eventually requested to provide a letter.

For further inquiries contact arnau.padrol@imj-prg.fr (<https://webusers.imj-prg.fr/~arnau.padrol/>).

2- Poste PR "Mathématiques appliquées en interaction avec l'entreprise", Univ. Bourgogne Franche-Comte (Dijon)
(source : J.-B. Caillaud et R. Laraki)

Un poste de Professeur des Universités en "Mathématiques appliquées en interaction avec l'entreprise" sera mis au concours en 26ème section à l'Université de Bourgogne-Franche-Comté lors de la session synchronisée du printemps 2018 (affectation à Dijon au 1er septembre 2018) :
<http://math.u-bourgogne.fr/spip.php?article306>

3- Game Theory, Optimization and Learning: Interplay and Applications to Signal Processing, ESIEE Paris, Noisy le Grand, 2017-11-08
(source : R. Laraki)

Objective:

This GdR ISIS meeting targets a wide signal processing audience. The main goal is to provide a comprehensive introduction to game theoretic tools with a clear focus on its connections to more popular tools such as: distributed optimization, multi-objective optimization, machine learning and control theory. Furthermore, these concepts will be illustrated via signal processing applications.

Abstract:

Game theory (GT) is a branch of mathematics that enables the modeling and analysis of the interactions between several decision-makers (or players) that can have either conflicting or common objectives. A game is an interactive situation in which the benefit or cost achieved by each player depends on its own decisions and also on those taken by the other players. For example, the time a car driver needs to get back home generally depends not only on the route he/she chooses but also on the decisions taken by the other drivers. Therefore, in a game, the actions and objectives of the players are tightly coupled.

Until very recently, GT has been used only marginally in signal processing (SP). However, the real catalyzer of the application of GT to SP has been the blooming of all issues related to networking in general, and distributed networks, in particular. The interactions that take place in a network can

often be modeled as a game, in which the network nodes are the players that compete or form coalitions to get some advantage and enhance their quality-of-service. The large interdependence between the actions of the network nodes due to factors such as the use of common resources, e.g., computational, storage, or spectral resources (interference across wireless networks). Examples of this approach can be found in the broad field of SP for communication networks in which GT is used to address fundamental networking issues such as: controlling the power of radiated signals in wireless networks; beamforming for smart antennas; precoding in multi-antenna radio transmission systems; data security; spectrum sensing in cognitive radio; spectrum and interference management; multimedia resource management; and image segmentation.

Motivated by the applications above, GT is also pervading many other branches of SP, and has very recently been used for modeling and analyzing the following "classical" SP problems: distributed estimation in sensor networks; adaptive filtering; waveform design for multiple-input multiple-output (MIMO) radar estimation; jamming in wireless communications and MIMO radar applications; and finding the position of network nodes. In addition to the examples above, we must eventually point out the important connection that is building up between GT and SP through the fields of machine learning and distributed optimization.

Organizers:

E. Veronica Belmega (ETIS, UMR 8051, belmega@ensea.fr)
Samson Lasaulce (L2S, CentraleSupélec, Samson.LASAULCE@lss.supelec.fr)

Invited speakers:

Eduard A. Jorswieck (Technische Universität Dresden)
Panayotis Mertikopoulos (CNRS, LIG)
Olivier Beaud (EDF Lab' Paris-Saclay)
Pascal Bianchi (Télécom ParisTech)
Constantin Morarescu (CRAN UMR 7039)

Call for participation:

Interested researchers that wish to present their work should send a title and an abstract of their prospective talk to the organizers via email before October 25th, 2017. The participation of Ph.D. students is strongly encouraged.

For more details please see: <http://gdr-isis.fr/index.php?>

[page=reunion&idreunion=346](#)

4- PGMO DAYS 2017, EDF Lab Paris Saclay, November 13 and 14, 2017
(source : R. Laraki)

Dear Colleagues,

We are pleased to inform you that registration for the annual meeting of the Gaspard Monge Program for optimization and Operations research ``PGMO days 2017'', is now open, until October 30th

(<https://www.fondation-hadamard.fr/fr/pgmo/pgmodays>), registration is free of charge, but mandatory. Please refer to <http://www.fondation-hadamard.fr/fr/pgmo/pgmodays> for more information.

We look forward to meeting you at the PGMO days 2017.

The organizers

5- SESO 2017 Winter School ``Data, Uncertainty and Optimization'', CIRM, Marseille
(source : M. De Lara et R. Laraki)

Dear colleagues,

this year, the SESO 2017 Winter School is co-organized with CNRS formation and with CIRM (Marseille).

DATES

Tuesday 28, Wednesday 29 and Thursday 30, November 2017

PLACE

CIRM, Marseille (South of France)

<http://www.cirm-math.fr/>

TITLE

Data, Uncertainty and Optimization

PROGRAM

<http://conferences.cirm-math.fr/interfacesession1.html>

[http://cermics.enpc.fr/~delara/SESO/courseSESO2017/
courseSESO2017/](http://cermics.enpc.fr/~delara/SESO/courseSESO2017/courseSESO2017/)

INTERNATIONAL LECTURER

David Woodruff (University of California Davis)

NATIONAL LECTURERS

Pierre Carpentier (ENSTA ParisTech), Jean-Philippe Chancelier (ENPC ParisTech), Michel De Lara (ENPC ParisTech), Vincent Leclère (ENPC ParisTech)

COURSE REGISTRATION

<https://cnrsformation.cnrs.fr/stage-17420-Data%2C-Uncertainty-and-Optimization.html?axe=65>

REGISTRATION DEADLINE

20 October 2017

P.S. If you are interested but have issues with registration, please contact me directly

Cordialement,

Michel DE LARA

6- Central European Set-Valued and Variational Analysis Meeting, Chemnitz, Germany, November 25, 2017
(source : M. Théra)

Dear friends,

we are very glad to invite you for the third edition of the meanwhile traditional Central European Set-Valued and Variational Analysis Meeting
<https://www.tu-chemnitz.de/mathematik/wima/cesvnam.php> taking place on Saturday, November 25, 2017 in Chemnitz.

The Central European Set-Valued and Variational Analysis Meeting is an informal meeting to hear the latest developments from the "local" community in set-valued and variational analysis. It has been initiated by Russell Luke in Göttingen, 2015. The second edition took place in Jena, 2016 organized by Andreas Löhne.

Schedule:

Friday, November 24, 2017, 7pm, informal dinner

Saturday, November 25, 2017, 9am - 6pm, meeting
Saturday, November 25, 2017, from 7pm, mini-city tour and
informal get-together

Fees: Participation and coffee breaks are free of charge.

Please send an e-mail to grad@math.tu-chemnitz.de or
vladimir.shikhman@math.tu-chemnitz.de until October 31, 2017
in order
to register. In case you intend to give a talk (as there is a
limited number of talks, priority will be given to young
researchers) please send us also its title and abstract.

Hoping for a good event,

Vladimir Shikhman, Sorin-Mihai Grad, Gerd Wachsmuth, Oleg
Wilfer, Thomas Jahn (organizing team)

P.S. Feel free to contact other researchers who may be
interested in participation.

7- Horizon Maths 2017 - Mathematics and networks, November
30th 2017 at Institut Henri Poincaré, Paris
(source : R. Laraki)

Horizon Maths 2017 will be organized on November 30th 2017
at Institut Henri Poincaré.

Themes: Signal processing, Random matrices, High dimension,
Sparsity and compressed sensing, Optimization, Nonlinear
optics, Applications to telecommunications

Lecturers:

Romain Couillet (Centrale-Supélec)
Laurent Massoulié (Inria Paris)
Georgios Paschos (Huawei)
Nicolas Tremblay (CNRS and GIPSA-lab)
Pierre Vandergheynst (EPFL)
Michèle Wigger (Télécom ParisTech)
Mansoor Yousefi (Télécom ParisTech)
Lenka Zdeborova (CEA)

Registration:

Registration is free but mandatory. You can register here:
[https://www.sciencesmaths-paris.fr/en/horizon-
maths-2017-928.htm](https://www.sciencesmaths-paris.fr/en/horizon-maths-2017-928.htm)

8- International Symposium on Mathematical Programming (ISMP
201 in Bordeaux, July 1-6, 2018
(source : D. Aussel)

The 23rd International Symposium on Mathematical Programming (ISMP 201 will take place in Bordeaux, France, July 1-6, 2018. ISMP is the world congress of mathematical optimization where scientists as well as industrial researchers and users of mathematical optimization meet in order to present the most recent developments/results and to discuss new challenges from theory and practice. To illustrate the spectrum of topics, a classification attempt is reported in <https://ismp2018.sciencesconf.org/resource/page/id/4> .

Plenary, semi-plenary, and keynote speakers for ISMP2018 have been announced on the conference website along with their provisional talk titles:

<https://ismp2018.sciencesconf.org/resource/page/id/4>

Important Dates

As early as possible: your registration on the conference website to receive any further communication on ISMP 2018. Simply select create account in the login menu on the upper right corner of the website: <https://ismp2018.sciencesconf.org/user/createaccount>

January 3, 2018: Opening of abstract submissions
February 1, 2018: Opening of registrations
February 28, 2018: Abstract submission deadline
April 15, 2018: Notification of acceptance
April 30, 2018: Early bird registration deadline and registration deadline for presenting authors
July 1-6, 2018: The symposium being held in Bordeaux

Details on the program and practical information will be progressively added on the conference website: <https://ismp2018.sciencesconf.org/>

9- 18th ISDG Symposium July 9-12, 2018, Grenoble, France
(source : R. Laraki)

The 18th International Symposium on Dynamic Games and

Applications will be held in Grenoble, France, on July 9-12, 2018.

The chair of the organizing committee is Corinne Touati (corinne.touati@inria.fr) and the co-chairs of the international program committee are David Ramsey (David.Ramsey@ul.ie) and Jerome Renault (jerome.renault@tse-fr.eu).

Additional information will follow soon. For information, the web site of the previous symposium: <https://www.gerad.ca/colloques/isdg2016/index.html>

10- Annonces de séminaires

Une rubrique pour signaler quelques liens pour les séminaires ayant lieu ce mois-ci et organisés dans nos laboratoires. N'hésitez pas à l'alimenter, préférentiellement via un lien vers la page du séminaire

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Séminaire Parisien d'Optimisation (exceptionnellement : ENSCP 01, à côté de l'IHP)

<http://www.ljll.math.upmc.fr/~plc/spo.html>

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Séminaire du programme PGMO, salle PGMO (Polytechnique)

<http://www.fondation-hadamard.fr/en/pgmo/seminar>

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Groupe de Travail CalVa de Calcul de Variations (suivant les séances : université Paris-Dauphine, université Paris 6, université Paris-Sud Orsay, université Paris 7)

<https://www.ljll.math.upmc.fr/fr/seminaires/article/gdt-calcul-des-variations>

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Groupe de Travail Analyse Non-linéaire et EDP (IHP)

<http://www.math.ens.fr/~alazard/seminaire.html>

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Séminaire Pluridisciplinaire d'Optimisation de Toulouse
(lieu : voir site)

<http://projects.laas.fr/spot/>

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Séminaire SAMOCOD (séminaire Avignon Montpellier Optimisation
Contrôle
et Dynamique)

[http://www.i3m.univ-montp2.fr/index.php?
option=com_content&view=article&id=59&catid=19&sem=618](http://www.i3m.univ-montp2.fr/index.php?option=com_content&view=article&id=59&catid=19&sem=618)

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Séminaire hebdomadaire de l'équipe MOD de l'Université de
Limoges

<https://indico.math.cnrs.fr/categoryDisplay.py?categId=36>

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Séminaire Parisien de Théorie des Jeux (IHP, salle 05, 201 ou
314)

<https://sites.google.com/site/theoriesdesjeux/>

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Séminaire de Mathématiques Discrètes, Optimisation et
Décision, Centre
d'Economie de la Sorbonne et Université Paris 1

<http://ces.univ-paris1.fr/membre/seminaire/MDOD/>

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Séminaire de géométrie sous-riemannienne - IHP

<http://webusers.imj-prg.fr/~davide.barilari/seminar.php>

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Séminaire de de l'équipe Statistique, Probabilités,
Optimisation et Contrôle (SPOC) - IMB

<https://math.u-bourgogne.fr/spip.php?page=seminairespoc>

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Séminaire MDOD (Mathématiques Discrètes, Optimisation et
Décision), Maison des Sciences Economiques, Paris

<http://ces.univ-paris1.fr/membre/seminaire/MDOD/>

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11- Jérôme Bolte (TSE-UT1), Shoham Sabach (Technion-Israel
Institute of Technology) et Marc Teboulle (Tel Aviv
University) ont reçu le Prix 2017 SIAG/Optimization
(source : M. Théra)

Jérôme Bolte (TSE-UT1), Shoham Sabach (Technion-Israel
Institute of Technology) et Marc Teboulle (Tel Aviv
University) ont reçu le Prix 2017 SIAG/Optimization pour leur
excellent papier "Proximal alternating linearized
minimization for nonconvex and nonsmooth problems," publié
dans la revue internationale Mathematical Programming.

Pour plus des détails voir : [https://www.siam.org/prizes/
sponsored/siagopt.php](https://www.siam.org/prizes/sponsored/siagopt.php)

12- Qualifications MCF et PR 2018
(source : R. Laraki)

L'inscription pour la campagne de qualifications aux fonctions
de maitre
de conférences ou de professeur des universités est ouverte
jusqu'au 24
octobre à 16h. La thèse/habilitation doit être soutenue au
plus tard le
13 décembre 2017 et le dossier être validé avant le 19
décembre à 12h.

Pour plus des détails voir : [https://
www.galaxie.enseignementsup-recherche.gouv.fr/ensup/](https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/)

[cand_qualification.htm](#)