

Lettre MODE
février 2018

Envoyez vos contributions en format simple texte à
oana-silvia.serea@univ-perp.fr.

Prière d'indiquer "pour la lettre MODE" dans l'objet.

L'inscription et la désinscription automatiques se font en écrivant à
lettre-mode-smai-request@emath.fr
et en mettant dans le sujet suivant le cas subscribe ou unsubscribe.

Vous pouvez également retrouver les lettres MODE sur le site :

<http://smai.emath.fr/spip.php?article330&lang=fr>

SMAI-MODE sur twitter :

Le groupe dispose désormais d'un fil d'actualité : https://twitter.com/smai_mode

Follow @smai_mode !

Table des matières

0- Renouvellement de 6 membres du comité de liaison du groupe MODE

-- Thèses et Postes

1- 2 PhD Contracts in Partial Differential Equations and their control, Department of Mathematics, Universidad Autónoma de Madrid, Spain

2- Stage M2 (Inria Sophia) - Contrôle optimal d'allocation de ressources dans une bactérie

3- Givens Associate positions at the Mathematics and Computer Science (MCS) Division, Argonne National Laboratory

4- Assistant professor in Mathematical Modeling and Optimization, Ecole Polytechnique, Paris

5- CR at MIAT - INRA Toulouse

6- 2 PhD positions within Einstein Visiting Fellow programme at TU Berlin

7- Poste PR "apprentissage" à l'ENS de Lyon

8- PhD and postdoc positions EOS project KULeuven/VUB/UCL/UMons, Belgium

9- PhD positions at the School of Business and Economics at

Maastricht University

-- Conférences et évènements

- 10- Mini-cours GdR MOA en prélude de SMAI-MODE 2018, March 26-27
- 11- Algebra, Arithmetic and Combinatorics of Differential and Difference Equations, CIRM, 28 May - 1 June 2018
- 12- Game Theory in Paris, 11-15 Juin 2018
- 13- CTW18 on Graphs and Combinatorial Optimization, 18-20 June, Paris
- 14- Summer school on Mean Field Games and Applications, IPAM, LA, June 18 and June 29, 2018
- 15- 14th Viennese Conference on Optimal Control and Dynamic Games du 3rd-6th July
- 16- International Conference on Engineering Optimization (EngOpt 201, Lisbon on September 17-19, 2018

17- Annonces de séminaires

-- Soutenances de Thèses et Habilitations à diriger des recherches

-- Autres (ouvrages, etc.)

18- Cirm-Luminy - Calls for proposals - Deadline 31 March 2018

0- Renouvellement de 6 membres du comité de liaison du groupe MODE

(source : F. Silva)

Cher-e-s collègues,

Le groupe MODE lance un appel à candidature en vue du renouvellement de 6 membres du comité de liaison. Cette année, les membres sortant sont:

- 1.- Marianne Akian (renouvelable).
- 2.- Alexandre Cabot (renouvelable).
- 3.- Olivier Fercoq (renouvelable).
- 4.- M. Haddou (renouvelable)
- 5.- Jérôme Malick (non-renouvelable car deux mandats ont été déjà faits)

6.- Adam Ouorou (non-renouvelable car deux mandats ont été déjà faits)

Vous êtes invités à manifester votre intérêt à candidater au comité de liaison pour la période 2018-2021 en envoyant une courte profession de foi, en précisant votre affiliation, à l'adresse suivante:

francisco.silva@unilim.fr

La date limite pour le dépôt des candidatures est le 23 février, 2018.

Après avoir fixé la liste de candidats, le vote aura lieu entre 19 février et le 27 mars, 2018. Cette année la modalité du vote sera électronique, mais les participants aux journées MODE 2018 à Grenoble

<http://smai-mode2018.imag.fr/>

pourront aussi voter lors de l'assemblée générale du groupe.

Bien cordialement,

F. Silva.

1- 2 PhD Contracts in Partial Differential Equations and their control, Department of Mathematics, Universidad Autónoma de Madrid, Spain
(source : J.-B. Caillaud)

The Department of Mathematics of Universidad Autónoma de Madrid, Spain, led by Enrique Zuazua, offers 2 PhD Contracts to carry out mathematical and computational research in Partial Differential Equations and their control, with excellent facilities within a worldwide academic, research and technological network.

This position is funded by the European Research Council (ERC) Advanced Grant "DYCON – Dynamic Control".

Research activities will be focused in some of the priority lines of the project, that will be identified accordingly to the candidate's profile.

Application submission and further information can be found

in: <https://www.euraxess.es/jobs/272719>

Please contact Enrique Zuazua (dynamic.control@uam.es) for further information.

2- Stage M2 (Inria Sophia) - Contrôle optimal d'allocation de ressources dans une bactérie
(source : J.-B. Caillaud)

Application submission and further information can be found at: <https://team.inria.fr/mctao/stage-m2-2018-mctao-biocore>

3- Givens Associate positions at the Mathematics and Computer Science (MCS) Division, Argonne National Laboratory
(source : M. Théra)

The Mathematics and Computer Science (MCS) Division at Argonne National Laboratory is developing innovative techniques in numerical computing and computational mathematics. The Givens Associate program is intended to encourage graduate students who are beginning careers in numerical analysis or computational mathematics. Candidates must be in an accredited Ph.D. program in applied mathematics, computer science, computational science, statistics, or a related field at a U.S. university (U.S. citizenship is not required).

Givens Associates will work actively with MCS scientists designing, analyzing, and implementing numerical and statistical algorithms. For further information about particular applied mathematics, numerical software, and statistics research areas in MCS, see <http://www.mcs.anl.gov/group/applied-mathematics>.

The deadline for all application materials is March 1, 2018. Please see complete details at <http://www.anl.gov/education/graduates/givens-summer-associate-program>.

4- Assistant professor in Mathematical Modeling and Optimization, Ecole Polytechnique, Paris
(source : M. Théra)

Application submission and further information can be found at:

<https://de.polytechnique.fr/candidatures/OffreView.cfm?ID=472&Language=EN>

The deadline for applying is March 31st, 2018.

5- CR at MIAT - INRA Toulouse
(source : M. Théra)

Application submission and further information can be found at: http://jobs.inra.fr/offers/emploi_perm/concours/crcn/?concours=24348&campagne=23129&domaine=®ion=&corps=&entite_rattachement=&discipline=&iLimit=30&annonce=21455&annonce_id=10#annonce

6- 2 PhD positions within Einstein Visiting Fellow programme at TU Berlin
(source : J.-B. Caillaud)

PhD student position 1:

A PhD scholarship is available in the framework of the Einstein Visiting Fellow programme at TU Berlin within the Collaborative Research Center "Control of self-organizing nonlinear systems: Theoretical methods and concepts of application". A successful candidate is supposed to work under the supervision of Eduard Feireisl on problems related to the mathematical theory of fluid mechanics. Basic knowledge of PDE's and functional analysis, including the framework of Sobolev spaces and weak solutions is required. The emphasis will be put on the concept of generalized solutions, their stability and asymptotic behavior under general stochastic perturbations.

PhD student position 2:

A PhD scholarship is available in the framework of the Einstein Visiting Fellow programme at TU Berlin within the Collaborative Research Center "Control of self-organizing nonlinear systems: Theoretical methods and concepts of

application". A successful candidate is supposed to work under the supervision of Eduard Feireisl on problems related to the mathematical theory of fluid mechanics. Basic knowledge of PDE's and functional analysis, including the framework of Sobolev spaces and weak solutions is required. The emphasis will be put on the concept of generalized solutions and the applications of the abstract theory for designing efficient numerical schemes.

The scholarship is granted for 3 years and amounts to about 1.450 Euro per month (tax free, no insurances included) starting April 2018. The PhD student is supposed to settle at TU Berlin. For more information, please, contact Eduard Feireisl (feireisl@math.cas.cz) or Etienne Emmrich (emmrich@math.tu-berlin.de). Please, send your application together with a CV via e-mail to secretdiffs@math.tu-berlin.de not later than by March 4, 2018

7- Poste PR "apprentissage" à l'ENS de Lyon
(source : R. Laraki)

Pour plus de détails voir : https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/ListesPostesPublies/ANTEE/2018_1/0694123G/FOPC_0694123G_4168.pdf

8- PhD and postdoc positions EOS project KULeuven/VUB/UCL/UMons, Belgium
(source : J. Bolte)

Dear colleagues,

We are advertising several PhD and postdoctoral positions for a project on "Structured Low-Rank Matrix/Tensor Approximation: Numerical Optimization-Based Algorithms and Applications" (2018-2021). This excellence-of-science (EOS) project involves a consortium of four Belgian universities: KULeuven (L. De Lathauwer, B. De Moor, P. Patrinos, M. Van Barel), VUB (I. Markovsky, M. Ishteva), UCL

(P.A.
Absil, F. Glineur) and UMons (N. Gillis).

We are seeking outstanding candidates who have obtained a master's or doctoral degree in mathematical engineering, computer science, electrical engineering, mathematics or physics. Strong candidates have a proven record in numerical mathematics, optimization, systems & control, machine learning and/or signal processing. A good knowledge of linear algebra is mandatory but experience with tensor techniques is not required. Candidates must be fluent in English.

Further information and application form are available from <https://www.esat.kuleuven.be/stadius/selma/> .

Best regards,
Pierre-Antoine Absil

9- PhD positions at the School of Business and Economics at Maastricht University
(source : M. Théra)

I would like to draw your attention to the following call for PhD positions at the School of Business and Economics at Maastricht University. If you have a promising and interested candidate who wants to write a doctoral thesis in Game theory, Mathematical Programming and related fields, please encourage them to apply. The position is described at

<https://www.maastrichtuniversity.nl/research/institutes/gsbe/gsbe-education>

Yours sincerely,

Mathias Staudigl

10- Mini-cours GdR MOA en prélude de SMAI-MODE 2018, March 26-27
(source : F. Iutzeler)

The GdR MOA (Mathematics of Optimization and Applications <http://gdrmoa.math.cnrs.fr/>) is providing a mini-course on March 26-27 in prelude to the SMAI-MODE conference (<http://smai-mode2018.imag.fr/> March 28-30). The conference and the course take place at the Escandille conference center (<http://www.escandille.com/>) in Autrans, in the heart of the Vercors Massif (about one hour from Grenoble).

This year, the course will be taught by Julien Mairal (INRIA Grenoble <https://lear.inrialpes.fr/people/mairal/>) and the theme will be "Optimization and Learning" with focuses on sparsity and large-scale learning. It will be taught in English and include both mathematical and computational aspects.

Important Information:

- There are limited places: The course is open to PhD students in priority, but Academics, Master students, and Postdocs may also apply
- Every attendee has to register for the SMAI-MODE conference <http://smai-mode2018.imag.fr/en/info.html> (e.g. for a PhD student, Fees range from €50 to €120 depending on accommodation)
- There is no extra fee for the mini-course thanks to the support of the GdR MOA
- Housing and Meals for March 26-30 are included in the conference fees

- Additional Informations will gradually be put on the conference website at <http://smai-mode2018.imag.fr/course.html>

How to apply: Fill the following form before February 23rd.
--> <https://goo.gl/forms/HRt4hD5tOUbG8Rkn2>

Acceptance: The acceptation letters will be sent by the end of February.

Warning: Upon acceptation, you will have to register to the conference before March 7th.

Contact: cours.moa.2018@gmail.com

Franck Iutzeler, Jerome Malick, Panayotis Mertikopoulos
Mini-Course Organizing committee

11- Algebra, Arithmetic and Combinatorics of Differential and Difference Equations, CIRM, 28 May - 1 June 2018
(source : R. Laraki)

For information please visit the website : <https://conferences.cirm-math.fr/1761.html>

12- Game Theory in Paris, 11-15 Juin 2018
(source : M. Théra)

Information can be found at: <http://www.paris-symposium-on-games.org/>

13- CTW18 on Graphs and Combinatorial Optimization, 18-20 June, Paris
(source : R. Laraki)

The Cologne-Twente Workshop on Graphs and Combinatorial Optimization 2018 welcomes contributions on theory and applications of discrete algorithms, graphs and combinatorial optimization in the wide sense. CTW18 will be organized by CNRS LIX, École Polytechnique, and will take place at the Conservatoire National d'Arts et Métiers (CNAM), in the center of Paris.

Contacts

URL: <http://ctw18.lipn.univ-paris13.fr/>
EMAIL: ctw18paris@gmail.com

14- Summer school on Mean Field Games and Applications, IPAM, LA, June 18 and June 29, 2018
(source : M. Théra)

Information can be found at: <http://www.ipam.ucla.edu/>

[programs/summer-schools/graduate-summer-school-mean-field-games-and-applications/?tab=overview](http://www.tuwien.ac.at/infocenter/programs/summer-schools/graduate-summer-school-mean-field-games-and-applications/?tab=overview)

15- 14th Viennese Conference on Optimal Control and Dynamic Games du 3rd-6th July
(source : R. Laraki)

Information can be found at: <https://orcos.tuwien.ac.at/events/vc2018/>

16- International Conference on Engineering Optimization (EngOpt 201, Lisbon on September 17-19, 2018.
(source : R. Laraki)

Information can be found at: <http://engopt2018.tecnico.ulisboa.pt>

17- 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

**
Séminaire Parisien d'Optimisation (IHP)

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

**
**
Séminaire du programme PGMO, salle PGMO (Polytechnique)

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

**

**

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>

**

**

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

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

**

**

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

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

**

**

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

**

**

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

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

**

**

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

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

**

**

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/>

**

**

Séminaire de géométrie sous-riemannienne - IHP

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

**

**

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

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

**

**

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

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

**

18- Cirm-Luminy - Calls for proposals - Deadline 31 March 2018
(source : M. Théra et O.-S. Serea)

Information can be found at: <https://cirm-math.us8.list-manage.com/track/click?u=eefb29e568fd79f2b19777c8b&id=d888d40da0&e=83d2b9c83e>