

Lettre MODE  
mars 2018

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 1- Post-Doctoral Fellowship Position in Game Theory and Applications, Guelph  
 (source : M. Théra)

Employer: Dr. Monica Cojocaru, Department of Mathematics & Statistics, University of Guelph Location: Guelph, ON Canada  
 Start date (tentative): Mat 1st, 2018

A post-doctoral fellowship (PDF) in Mathematical Modelling with emphasis in Game Theory, specifically generalized Nash games (GNE) and their applications, is available in the Department of Mathematics & Statistics, in Guelph, Ontario, Canada. The PDF will be part of a research team lead by Dr. M. Cojocaru. The PDF will work on developing new theoretical results that enhance our understanding and our computation abilities for classes of generalized Nash games, and they will work on cutting edge research relating GNE with applications in population health and environmental models. This position is for 1 year, with the possibility of renewal for a second year, subject on performance. Salary is commensurate with experience. Responsibilities  Exploring new results relating generalized Nash games, equilibrium problems,

evolutionary stable states and Nash equilibria selection questions; Building, coding and analyzing generalized Nash game theoretic models applied to population health problems and/or environmental problems; Writing peer-reviewed publications and reports; Conference, seminar and workshop participation. Requirements PhD in mathematics or applied mathematics (optimization, game theory, variational analysis, equilibrium problems etc., mathematical biology) or a closely related discipline (Physics, Engineering or Computer Science), with a strong interest in both theoretical and applied research. Advanced programming expertise in at least one of Matlab, R, Python; The sense of urgency necessary to meet goals, objectives, and deadlines Strong multi-tasking and organizational abilities

Applications should be sent via email to: [mcojocar@uoguelph.ca](mailto:mcojocar@uoguelph.ca) Dr. Monica G. Cojocaru, Department of Mathematics and Statistics, University of Guelph. An application should include a curriculum vitae including a list of publications, a research summary (with links to most related papers on the topics above) and the names and details of three referees. Review of applications will begin March 15, 2018 and continue until the position is filled.

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2- Two positions in Optimisation, Ecole Polytechnique  
(source : S. Gaubert)

ONE FULL-TIME ASSISTANT PROFESSOR POSITION IN MATHEMATICAL MODELING AND OPTIMIZATION

Submission deadline: 31 Mar 2018 midnight Paris time (GMT+1)  
<https://de.polytechnique.fr/candidatures/Index.cfm?Type=Professeur>

Position Start Date: 01 Sep 2018

The Applied Mathematics Department at Ecole Polytechnique Polytechnique invites applications for a faculty position at the Assistant Professor (tenured) level in Mathematical Modeling and Optimization.

Applicants should be excellent young applied mathematicians with a solid research experience in mathematical modeling, numerical simulation of partial differential equations and optimization. The hired assistant professor will teach numerical analysis and optimization in the Applied Mathematics

Department and will conduct his-her research in one of the teams of the Centre de Mathématiques Appliquées (CMAP) of Ecole Polytechnique. Some familiarity with shape optimization or PDE constrained optimization would be an additional asset.

Ecole Polytechnique offers an attractive environment and a genuine support at the scientific, administrative, and Financial levels, thus providing all ingredients for the preparation of the «Habilitation à Diriger des Recherches».

Contact: Grégoire Allaire, Professor at the Applied Mathematics Department ([gregoire.allaire@polytechnique.fr](mailto:gregoire.allaire@polytechnique.fr)).

ONE PART-TIME POSITION (PROFESSEUR CHARGÉ DE COURS OR MAÎTRE DE CONFÉRENCES) IN OPTIMIZATION

Submission Deadline: 31 Mar 2018 midnight Paris time (GMT+1)  
<https://de.polytechnique.fr/candidatures/Index.cfm?Type=Professeur>

Position Start Date: 01 Sep 2018

The Applied Mathematics Department at Ecole Polytechnique invites applications for a part-time faculty position at the Professeur Chargé de cours level (equivalent to Associate Professor) or Maître de Conférences level (equivalent to Assistant Professor) in Optimization.

Applicants should be excellent applied mathematicians with an international recognition of their research in optimization. Candidates will be hired at a level corresponding to their experience. Thus, for a Professeur Chargé de cours position the Habilitation à Diriger des Recherches (or an equivalent scientific level) is required. The hired person will mostly teach optimization and operations research in the Applied Mathematics Department. She or he should be able to propose and supervise research projects for students in these fields. Her or his ability to interact in the multidisciplinary environment of the Applied Mathematics Department, for example by participating in other courses (numerical analysis, control, probability, statistics) including an optimization part, will be an asset. In agreement with her/his principal employer (CNRS, INRIA, industry, etc.) the applicant could conduct all or part of her/his research at the Centre de Mathématiques Appliquées of Ecole Polytechnique.

Applications comprising such a research component will be considered in priority. Some help for hosting her/his research

team can be arranged.

Contacts: Grégoire Allaire, Professor at the Applied Mathematics Department ([gregoire.allaire@polytechnique.fr](mailto:gregoire.allaire@polytechnique.fr)) and Stéphane Gaubert, Associate Professor ([stephane.gaubert@polytechnique.edu](mailto:stephane.gaubert@polytechnique.edu)).

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3- Poste de Professeur section 61, UPEM, Traitement Statistique de l'Image et du Signal, Optimisation, Apprentissage  
(source : J.-B. Caillaud et R. Laraki)

Profil: Traitement statistique de l'image et du signal, optimisation, apprentissage.

Unité de Recherche: Laboratoire d'Informatique Gaspard Monge (LIGM), UMR 8049.

Composante d'Enseignement: Institut Gaspard Monge.

Profil recherche. Le candidat devra développer une activité de recherche de tout premier plan en matière de traitement statistique de l'image et du signal. Des compétences en optimisation et apprentissage seraient particulièrement appréciées. Le candidat sera rattaché à l'équipe Signal et Communications du LIGM composée de 1 PR 61, 2 DR CNRS de section 07 du cocnrs, et 3 MCF de section 61.

Profil enseignement. Enseignements en traitement du signal, traitement d'images, communications numériques, mathématiques probabilités et statistiques pour l'ingénieur.

Personnes à contacter en matière de recherche:

Cyril Nicaud, [cyril.nicaud@u-pem.fr](mailto:cyril.nicaud@u-pem.fr), directeur du LIGM Jamal Najim, [jamal.najim@u-pem.fr](mailto:jamal.najim@u-pem.fr), responsable de l'équipe Signal et Communications Philippe Loubaton, [philippe.loubaton@u-pem.fr](mailto:philippe.loubaton@u-pem.fr), président du comité de sélection

Personnes à contacter en matière d'enseignement:

Serge Midonnet, [serge.midonnet@u-pem.fr](mailto:serge.midonnet@u-pem.fr), directeur de l'Institut Gaspard Monge Philippe Loubaton, [philippe.loubaton@u-pem.fr](mailto:philippe.loubaton@u-pem.fr), président du comité de sélection  
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4- PhD and Postdoc Positions in Algorithms, University Paris-Saclay and Sorbonne University  
(source : R. Laraki)

The position for PhD is full-time three year and that for postdoc is full-time one year with possible extension. The starting dates are before September 2018 and can be negotiated. The Algorithms groups in IBISC and LIP6 provides a strong environment and offers many opportunities for collaborations/interaction with researchers in the Paris region, for example DI ENS and IRIF. Applicants should have curiosity and enthusiasm for mathematical problems and strong background in theoretical computer science, in particular in one of the following domains:

- \* Approximation/Online Algorithms
- \* Algorithmic Game Theory
- \* Online Convex Optimization/Machine Learning

All applications should include

- \* a cover letter describing the interest in the position,
- \* a detailed CV/resume
- \* List of publications (PostDocs), or list of courses and grades (PhD students)
- \* Two or more references.

Interested candidates should send their application to Nguyen Kim Thang <[thang@ibisc.fr](mailto:thang@ibisc.fr)> via email by March 31, 2018.

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5- Postdoctoral position, Chair of Computational Mathematics of the DeustoTech Research Center in Bilbao (Basque Country, Spain)

(source : J.-B. Caillaud)

We are pleased to announce that the European Research Council (ERC) Advanced Grant "DYCON – Dynamic Control" offers one postdoctoral position to carry out mathematical and computational research in Partial Differential Equations and their control, in the context of the Chair of Computational Mathematics of the DeustoTech Research Center in Bilbao (Basque Country, Spain), led by Enrique Zuazua, in cooperation with Universidad Autónoma de Madrid (UAM), with excellent facilities and within a worldwide academic, research and technological network.

This position will be open until April 30th, 2018.

Further information and the application procedure can be found in:

<http://cmc.deusto.eus/erc-advanced-grant-dycon-postdoc-contract-deustotech-201803/>

Please help us diffusing this call and contact [dycon@deusto.es](mailto:dycon@deusto.es) for further information.

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6- DGA-Inria PhD position at Sophia-Anitipolis, France  
(source : J. Zerubia)

Title: Stochastic Geometry for Multiple Object Detection and Tracking in High Resolution Multi-Source Data Sets for Wide Area Surveillance Applications

For more information and/or to apply before April 17th, 2018, please contact: Josiane ZERUBIA, Inria-SAM <http://www-sop.inria.fr/members/Josiane.Zerubia/index-eng.html> email: [Josiane.Zerubia@inria.fr](mailto:Josiane.Zerubia@inria.fr)

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7- Open positions  
(source : J.-B. Caillaud)

For more information please see:

Tenure Track Assistant Professors Optimisation & Operations Research Engineering <http://engineeroxy.com/announcement,a4300.html>  
University of Groningen

Post-doc in Machine Learning in Optimisation <http://www.computeroxy.com/announcement,a5517.html>  
Delft University of Technology, Department of Electrical Engineering, Mathematics and Computer Science

PhD in Algebraic Methods in Combinatorics and Optimisation <http://www.computeroxy.com/announcement,a5513.html>  
Delft University of Technology, Department of Electrical Engineering, Mathematics and Computer Science

Associate Professor in Applied Mathematics, Optimization  
<http://www.computeroxy.com/announcement,a5452.html>  
Norwegian University of Life Sciences, Faculty of Science and  
Technology

Up to two PhD student positions at the Division of Systems and  
Control <http://www.computeroxy.com/announcement,a5457.html>  
Uppsala University, Department of Information Technology

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8- PhD en Optimisation des paramètres d'un modèle de transport  
de charge pour la caractérisation électrique des matériaux  
spatiaux, LAPLACE : Laboratoire Plasma et Conversion Energie –  
Université Toulouse III  
(source : J. Bolte)(source : J.-B. Caillaud)

Pour les étudiants intéressés, merci de nous faire part de  
votre candidature en envoyant un CV aux adresses mails  
suivantes : [virginie.griseri@laplace.univ-tlse.fr](mailto:virginie.griseri@laplace.univ-tlse.fr),  
[fulbert.baudoin@laplace.univ-tlse.fr](mailto:fulbert.baudoin@laplace.univ-tlse.fr), [florian.bugarin@univ-tlse3.fr](mailto:florian.bugarin@univ-tlse3.fr),  
[stephane.segonds@univ-tlse3.fr](mailto:stephane.segonds@univ-tlse3.fr)

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9- 6th SDP Day, Workshop on Applications of Semidefinite  
Optimization  
(source : V. Magron)

For details please see: [https://homepages.cwi.nl/~monique/SDP\\_Day\\_2018/index.html](https://homepages.cwi.nl/~monique/SDP_Day_2018/index.html)

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10- SESO 2018, the Fifth International Thematic Week "Smart  
Energy and Stochastic Optimization", Paris from May 22 till  
May 25, 2018  
(source : M. De Lara)

PROGRAM  
<http://cermics.enpc.fr/~delara/SESO/SESO2018/SESO2018/>

REGISTRATION



<https://enquetes2.enpc.fr/index.php/252169>

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11- 14eme Viennese Conference on Optimal Control and Dynamic Games, 3rd-6th July  
(source : M. Théra)

For information please visit the website: <https://orcos.tuwien.ac.at/events/vc2018/>

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12- International Colloquium on Graph Theory, Lyon, July 9th-13th  
(source : R. Laraki)

ICGT is a conference initiated by Claude Berge in 1976 and organized by the French community in Graph Theory every 4-5 years. This 10th edition succeeds the editions of Grenoble in 2014, Orsay in 2010 and Hyères in 2005, and will take place in Lyon from July 9th to 13th 2018.

Registration

(early deadline, May 11th, late deadline June 20th)

<http://liris.cnrs.fr/~icgt2018/index.php?id=registration>

<http://liris.cnrs.fr/~icgt2018/>

mail: [icgt2018@liris.cnrs](mailto:icgt2018@liris.cnrs)

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13- 69th Workshop: Variational Analysis and Applications, Erice, August 28 – September 5, 2018  
(source : M. Théra)

Dear Colleagues,

We are pleased to announce that the registration procedure to the International Workshop on:

VARIATIONAL ANALYSIS AND APPLICATIONS

which will take place at Erice (Sicily) during the period

August 28–September 5, 2018 under the auspices of the International School of Mathematics G. STAMPACCHIA, directed by H. Attouch, G. Buttazzo, P. Daniele, A. Maugeri, has been activated. Please, go to <http://varana.org/2018/registration/> to register and submit your abstract.

Also, we would like to remind you that during the opening ceremony of the International Workshop, a Gold Medal in honour of Guido Stampacchia will be assigned for the sixth time, after an international competition, to a young mathematician, whose age be not greater than 35 years at the date of December 31st 2018, for his scientific contribution in the field of Variational Analysis. All the information about the medal can be found on the web site [www.varana.org/2018](http://www.varana.org/2018). The five previous medals were awarded to:

Tristan Rivière (2003)  
Giuseppe Mingione (2006)  
Camillo De Lellis (2009)  
Ovidiu Savin (2012)  
Alessio Figalli (2015)

Nominations for the medal, which should include the motivation at the basis of the nomination and a curriculum vitae of the nominee, must be sent, before March 31st, 2018, by email to: [umi@dm.unibo.it](mailto:umi@dm.unibo.it) or [dipmat.umi@unibo.it](mailto:dipmat.umi@unibo.it) or by mail to:

Commissione Premio Stampacchia  
Unione Matematica Italiana  
Dipartimento di Matematica  
Piazza di Porta San Donato 5  
40126 BOLOGNA (ITALY)

More detailed information are regularly posted on the conference web site: [varana.org/2018](http://varana.org/2018).

We are looking forward to seeing you in Erice!

The Organizing Committee:

Hedy ATTOUCH [hedy.attouch@univ-montp2.fr](mailto:hedy.attouch@univ-montp2.fr)  
Giuseppe BUTTAZZO [giuseppe.buttazzo@unipi.it](mailto:giuseppe.buttazzo@unipi.it)  
Patrizia DANIELE [daniele@dm.unict.it](mailto:daniele@dm.unict.it)  
Antonino MAUGERI [maugeri@dm.unict.it](mailto:maugeri@dm.unict.it)

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14- 5th European Conference on Computational Optimization –  
EUCCO 2018, September 10–12, 2018, Trier, Germany  
(source : T. Bayen)

Information can be found at: <https://alop.uni-trier.de/eucco2018/>

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15- 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 (IHP)

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

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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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16- Annonce de parution de livre (mars 201, Auteur : Samir ADLY, Université de Limoges, Titre : A Variational Approach to Nonsmooth Dynamics Applications in Unilateral Mechanics and Electronics  
(source : J.-B. Hiriart-Urruty)

Annonce de parution de livre (mars 201.  
Auteur : Samir ADLY, université de Limoges  
Brief series, Springer.  
Titre et résumé :  
A Variational Approach to Nonsmooth Dynamics  
Applications in Unilateral Mechanics and Electronics

Multidisciplinary and transversal to at least three communities: applied mathematicians, engineers and researchers in control theory and nonlinear systems  
Includes numerous examples, illustrations and applications to illustrate the theoretical mathematical results  
Highly accessible and self-contained