



Editorial

The AIMS-Cameroon Research Center is a lively and busy place, and we hope you will enjoy reading this newsletter wherein we share some of the activities carried out in the past months and forthcoming significant opportunities oriented towards Mini-workshops. The aim is to bring together leading mathematicians working on different aspects of Optimal Control, Shape and Topological Optimization problems, PDEs and applications, to disseminate the state of art and discuss some of the open questions with graduate, PhD students as well as researchers. We are hopeful that you will join us in our forthcoming Mini-workshops. Funding is available (but limited) to those wishing to attend any of those Mini-courses. For any additional information or to purposely visit the research center, please write to Prof. Dr. Gisèle Mophou at gisele.mophou@aims-cameroon.org.

Forthcoming Mini Workshops

- ✓ **September 30- October 10, 2019. Mini workshop on Optimization**
We will welcome **Prof. Mouhamadou NGOM**, from the University of Alioune Diop de Bambey, Senegal.
- ✓ **October 06-16, 2019. Mini course on Shape Optimization**
We will welcome **Prof. Diaraf SECK**, from university of UCAD, Senegal who is also supervising students at the Research Center.
- ✓ **October 19-November 4. Mini courses on Controllability of PDE**
We will welcome **Prof. Marius TUCSNAK**, from University of Bordeaux, France
- ✓ **November 02-12, 2019. Mini-course on Stochastics Calculus and Applications**
We will welcome **Prof. Mamadou Abdoul DIOP**, from Gaston Berger University, Saint-Louis, Senegal.
- ✓ **November 14-22, 2019. Mini-course on Optimal Control on Networks**
We will welcome **Prof. Dr. Günter LEUGERING**, from university Friedrich-Alexander-Universität, Erlangen-Nurnberg, Germany.

Visibility of the Research Center

April 8-12, 2019: Colloquium of Mathematics and Computer Science (CMI/CMC-2019), UDs, Cameroon



The Faculty of Science of the University of Dschang (UDs) in Cameroon, in collaboration with AIMS-Cameroon and many other institutes organized from 8 to 12 April 2019, its 1st edition of the Mathematics and Computer Science Symposium (CMI/CMC-2019) on the theme "Internet of Things, Big Data Analysis and Development" at the main campus of Dschang. **Prof. Dr. Gisèle MOPHOU**, German Research Chair of AIMS-Cameroon then led an 8 hours workshop on Optimal Control and Applications.

PhD Students from the AIMS-Cameroon Research Center were also invited to give a talk on their current works.

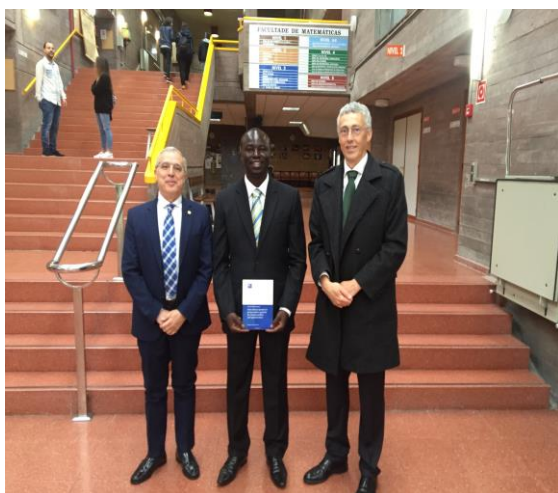


- **Lionel Landry DJOMEGNE.** "*Stackelberg control in unbounded domains for a semilinear parabolic equation*".
- **Romario Gildas FOKO and Maryse Manuella MOUTAMAL.** *Presentation of the research project entitled "Coastal Erosion: Classical and Geometric Optimal Control."*
- **Chilperic Armel FOKO.** "*Mathematical modeling of T cell proliferation.*"
- **Steve Cyrille KENNE.** "*Optimal control of a population dynamics model with missing birth rate.*"



Chilperic Armel FOKO did also two presentations entitled "Stochastic Modeling of T cell proliferation" respectively in Germany (Department of Theoretical and Quantitative Biology HHU University) from April 01-08, 2019 and in Rwanda (for the Theoretical Biology Seminar of AIMS Research) from May 06-10, 2019.

Announcement



On June 19, 2019 at the Universidade de Santiago de Compostela, Spain, **Jean-Daniel DJIDA** successfully defended his **PhD thesis** entitled "Some nonlocal operators in porous medium equations: the extension problem and regularity theory" with cum laude honor. The excellent results obtained within the framework of his PhD leads to three articles and two others which have been submitted. More about Dr. Jean-Daniel DJIDA can be found here <https://djidadonn.github.io/>.

A photo taken with his advisors, from left to right: Prof. Juan José NIETO ROIG, Dr. Jean-Daniel DJIDA and Prof. Iván Carlos AREA CARRACEDO.

Maths Jokes

Question:

How is an artificial Christmas tree like the fourth root of -68?

Answer:

Neither has real roots

Prof. Dr. Gisèle MOPHOU

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