LASSAAD MCHIRI

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Department of Statistics & OR
College of Sciences
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Riyadh 11451, Saudi Arabia

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SCIENTIFIC FOCUS AREAS

Stability theory; Stochastic differential equations; Lyapunov techniques; Stochastic processes; Applications in statistics and finance.

PROFESSIONAL EXPERIENCE

Assistant professor at King Saud University, Saudi Arabia. August. 2018 - Present

- Biostatistics for the preparatory cycle of health studies.
- Statistical Methods for the students of bachelor degree.
- Probability and Statistics for Engineers.
- Participation in the projects supervision.
- Control quality.
- Stochastic Processes and Queueing Models.

Assistant at University of Sousse, Tunisia. Sep. 2015 - July. 2018

- Probability and statistics for Engineers.
- Optimization for Engineers.
- Mathematics for Engineers.

Contractual assistant at University of Monastir, Tunisia. Oct. 2011 - Sep. 2015

- Algebra 1 for the students of bachelor degree.
- Calculus 1 for the students of bachelor degree.

EDUCATION

Ph.D in mathematics (Probability and Statistics) at Sfax University, Tunisia.
Title: Practical stability of stochastic dynamical systems. March. 2016
Advisor1: Mohamed Ali Hammami, Advisor2: Tomas Caraballo.

Master degree in mathematics and applications at Tunis El Manar University, Tunisia.
Title : Lévy processes and its Applications in Finance Jul. 2011.
Advisor: Habib Ouerdiane.

Bachelor degree in mathematics at Tunis El Manar University, Tunisia. Jun. 2008

High school diploma in mathematics at Alaouia high school, Tunisia. Jun. 2004

PUBLISHED PAPERS

- Published Paper: Hammami. M. A, **Mchiri. L**, Netchaoui. S, Sonner. S, *Pullback exponential attractors for differential equations with variable delays.* DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES B (AIMS). Vol 25, No 1, 301-319. 2020.
https://www.aimsciences.org/article/doi/10.3934/dcdsb.2019183

- Published Paper: Caraballo. T, Hammami. M. A, **Mchiri. L**, *Practical exponential stability of impulsive stochastic functional differential equations.* SYSTEMS and CONTROL LETTERS, Vol 109, 43-48. 2017.
https://www.sciencedirect.com/science/article/pii/S0167691117301809

- Published Paper: Caraballo. T, Hammami. M. A, **Mchiri. L**, *Practical Stability of Stochastic Delay Evolution Equations.* ACTA APPLICANDAE MATHEMATICAE (Springer), Vol 142, No 1, 91-105. 2016.
https://link.springer.com/article/10.1007/s10440-015-0016-3

- Published Paper: Caraballo. T, Hammami. M. A, **Mchiri. L**, *On the practical global uniform asymptotic stability of stochastic differential equations.* STOCHASTICS-AN INTERNATIONAL JOURNAL OF PROBABILITY AND STOCHASTIC PROCESSES, Vol 88, No 1, 45-56. 2016.
https://www.tandfonline.com/doi/full/10.1080/17442508.2015.1029719

- Published Paper: Caraballo. T, Hammami. M. A, **Mchiri. L**, *Practical exponential stability in mean square of stochastic partial differential equations.* COLLECTANEA MATHEMATICA, Vol 66, No 2, 261-271. 2015.
https://link.springer.com/article/10.1007/s13348-014-0124-9

- Published Paper: Caraballo. T, Hammami. M. A, **Mchiri. L**, *Practical Asymptotic Stability of Nonlinear Stochastic Evolution Equations.* STOCHASTIC ANALYSIS AND APPLICATIONS, Vol 32, No 1, 77-87. 2014.
https://www.tandfonline.com/doi/full/10.1080/07362994.2013.843142
- Caraballo. T, Ezzine. F, Hammami. M. A, **Mchiri. L**, *Practical stability with respect to a part of variables of stochastic differential equations.* Published online: 01 June 2020 on STOCHASTICS-AN INTERNATIONAL JOURNAL OF PROBABILITY AND STOCHASTIC PROCESSES.
https://www.tandfonline.com/doi/full/10.1080/17442508.2020.1773826
- Caraballo. T, **Mchiri. L**, Rhaima. M, *Partial practical exponential stability of neutral stochastic functional differential equations with Markovian switching.* To appear on MEDITERRANEAN JOURNAL OF MATHEMATICS.

SUBMITTED PAPERS

- Caraballo. T, **Mchiri. L**, Rhaima. M, *Ulam-Hyers-Rassias stability of neutral stochastic functional differential equations.*
- Caraballo. T, **Mchiri. L**, Belfeki. M, *p-th moment exponential stability of neutral stochastic pantograph differential equations with Markovian switching.*
- Ben Makhlouf. A, **Mchiri. L**, Baleanu. D, Rhaima. M, *Finite-Time Stability of Linear Stochastic Fractional Order Systems with Time Delay.*

- Caraballo. T, **Mchiri. L**, Belfeki. M, Rhaima. M, *h-stability in p-th moment of neutral pantograph stochastic differential equations with Markovian switching driven by Levy noise.*
- Ben Makhlouf. A, **Mchiri. L**, Rhaima. M, *Ulam-Hyers-Rassias Stability of stochastic functional differential equations via fixed point methods.*
- Caraballo. T, **Mchiri. L**, Rhaima. M, *Asymptotic stability with respect to part of the variables of neutral stochastic pantograph differential equations with Markovian switching.*

CONFERENCES, INTERNSHIPS AND WORKSHOPS

- 2017: Participation in Société des mathématiques tunisienne in Mahdia.
- 2016: Talk in Société des mathématiques tunisienne in Hammamet.
- 2016: Talk in Special Semester on Numerics for Stochastic Partial Differential Equations and their Applications in Linz in Austria.
- 2015: Internship at the university of mathematics in Sevilla (Spain).
- 2015: International Conference on Advances in Applied Mathematics in Hammamet in Tunisia.
- 2014: Internship at the university of mathematics in Sevilla (Spain).
- 2014: International Conference on Advances in Applied Mathematics in Hammamet in Tunisia.
- 2013: Internship at the university of mathematics in Sevilla (Spain).
- 2013: International Conference on Operator Theory in Hammamet in Tunisia.
- 2012: Workshop on nonlinear analysis and control theory in Mahdia in Tunisia.

COMPUTING SKILLS

Matlab; R; LaTeX; C.

LANGUAGE

Arabic: Native; English: Fluent; French: Fluent.