# Proceedings of the 24$^{\text{th}}$ congress of the Tunisian Mathematical Society

ALI BAKLOUTI, EDITOR OF THE VOLUME

The Tunisian Mathematical Society (TMS) holds its five-day congress each year in a different Tunisian location. The 24$^{\text{th}}$ edition of the TMS congress took place in the coastal city of Sousse on March 18-21, 2019. For the last many editions, contributed papers to the congress have been published as special issues in international, peer-reviewed, journals. Consolidating this tradition, the present GJM special issue publishes combined contributions from the 23rd and 24th editions around the theme of *partial and stochastic differential equations*.

This special issue is an opportunity to make our Society at large, its goals and objectives, better known to the general public.

The TMS is a scholarly association that caters to all researchers, academicians and graduate students in mathematics in Tunisia. It was founded in 1992 and is considered to be one of the most prestigious mathematical associations in Africa. It plays a major role in stimulating and sustaining high level mathematical research in Tunisia and its surrounding region.

The role of mathematics in the human, scientific and economic developments of nations is no longer to be demonstrated. Mathematical societies are paramount in implementing this role. The objectives of the TMS are several, including:

1. To promote the development, learning and applications of mathematics.

2. To improve mathematical education through joint projects with mathematics teachers at all levels and in partnership with the Tunisian Ministry of Higher Education and Scientific Research.

3. To popularize mathematics through initiatives promoting and raising awareness about the discipline.

4. To tightly knit the web of the Tunisian mathematical community through the publication of a monthly newsletter and the sponsorship of various activities.

5. To develop partnerships with Tunisian universities and scientific institutions in Tunisia and abroad.

The TMS annual international congress is the high-end of our yearly activities, and a prime occasion to bring together Tunisian and foreign experts to exchange and lecture on their latest work. It also aims to give our graduate students and younger mathematicians important exposure to some of the most advanced mathematical research being conducted around the world.

The TMS further organizes, once a year, a doctoral school and co-organizes a major event, *the summer days for Tunisian mathematicians abroad*, jointly with the Mediterranean Institute of the Mathematical Sciences (MIMS). It financially sponsors, within the boundary of its modest budget, the holding of mathematical events throughout the country.

The TMS interacts with several mathematical societies around the world and is bound by reciprocal agreements with them. We list: Swiss Mathematical Society, Société Mathématiques de France, Portuguese Mathematical Society, Mathematical Society of Japan, Bulgarian Mathematical Society, Mathematical Society of Canada, Royal Spanish Mathematical Society, and Southern Africa Mathematical Sciences Association.

The TMS runs its own journal, the *Tunisian Journal of Mathematics* (TJM), which is a highly reputed publication, published with Mathematical Sciences Publishers (Berkeley). TJM has a highly distinguished editorial board and publishes articles of outstanding quality. With the launch of TJM, the TMS firmly establishes itself as a leading mathematical society in Africa.

We are finally happy to introduce this special issue to our members, to the GJM readership and to the community at large. We thank all the contributors. Bonne lecture !

Ali Baklouti, President of TMS

SFAX UNIVERSITY, DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCES AT SFAX, ROUTE DE LA SOUKRA, 3000 SFAX, TUNISIA
*E-mail address*: Ali.Baklouti@fss.usf.tn