



## **Editorial Introduction**

On May 1, 2019, after some emails exchanged with Professor Dr. Florian Ion Tiberiu-Petrescu, we came up with the idea of creating a special edition, with the theme Structural engineering and in a short time we had the support of the following Professors, such as Editors:

<b>Name</b>	<b>Affiliation</b>
Taher M. Abu-Lebdeh	North Carolina A&T State University, United States
Francisco M. Marquez	University of Turabo, United States
Antonio Apicella	The Second University of Naples, Italy
Gianfranco Morani	Italian Aerospace Research Centre, Italy
Guanying Chen	Harbin Institute of Technology&SUNY Buffalo, China
Florian Ion Tiberiu Petrescu	University Politehnica of Bucharest, Romania
Haixiao Liu	Tianjin University, China
Shuhui Li	University of Alabama, United States
Chiara Bedon	University of Trieste, Italy

The purpose of this special edition is to present the breakthroughs and emerging interdisciplinary approaches in the field of structural mechanics, computational mechanics, optimization techniques, engineering structures, structural design, earthquake engineering, space structures, materials science and more. Our goal is to provide a forum for researchers from various disciplines, as well as the practice of engineers in various fields of structural engineering.

In particular, this edition aims to provide a forum for a productive exchange of ideas and interaction between various technical and scientific fields, such as structural, civil, mechanical, aeronautical, applied mathematics, statistics, and computer science.

This issue is publishing after review by the editors and reviewers the research articles that have been relevant to the theme of this special edition.

The journal also allows the publication of master dissertations and doctoral and postdoctoral theses to stimulate the dissemination and exchange of tacit and explicit knowledge in any language.



As chief editor of *IJM&P*, I am indebted to all members of the editorial board and reviewers, which contributed to achieve a very decent job during the evaluation and revision. Moreover, that they have contributed to the Journal in recognition of the international scientific community.

In addition, with all the authors, who trusted the results of their research and publications to the scrutiny of editors and reviewers who are part of our Journal.

On December 1, 2019, we will be releasing regular issue number 6.

***It is important to mention that all the works are showed without any kind of payment. All of them are published free from payments or taxes.***

The Table 1 presents how our collaborators, by their categories of study and sex are.

Table 1: Distribution of users by degree

	<i>Dr. Ph.D.</i>	<i>MSc.</i>	<i>Dr./Ph.D. Student</i>	<i>MSc. Student</i>	<i>Specialist</i>	<i>Professors</i>	<i>Students</i>	<i>Others</i>	<i>Total</i>
<i>Male</i>	1,083	271	250	59	35	28	65	112	1,903
<i>Female</i>	392	117	129	19	13	3	48	28	749

In the Figure 2 is presented the map mundi, in which can be observed the countries of where was originating the access (GOOGLE, 2019).

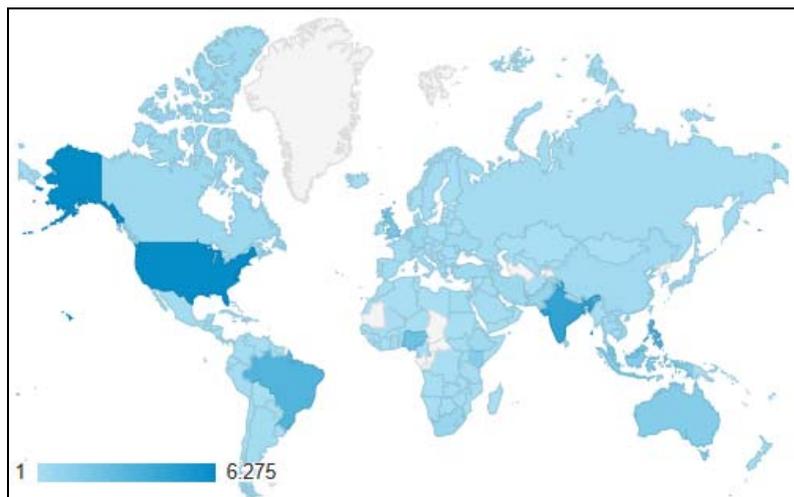


Figure 2: Countries that have accessed the journal

**EDITORIAL: VOLUME 10, NUMBER 8 (1850-1852)**

*Paulo Cesar Chagas Rodrigues, Adriano Maniçoba da Silva*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.776>**



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**THE STRUCTURE, GEOMETRY, AND KINEMATICS OF A UNIVERSAL JOINT (1713-1724)**

*Florian Ion Tiberiu Petrescu, Rely Victoria Virgil Petrescu*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.923>**

**A METHOD FOR PET MECHANICAL PROPERTIES ENHANCEMENT (1725-1748)**

*Raffaella Aversa, Rely Victoria Virgil Petrescu, Antonio Apicella, Florian Ion Tiberiu Petrescu*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.940>**

**A NEW HYPOTHESIS ABOUT THE NUCLEAR HYDROGEN STRUCTURE (1749-1771)**

*Rely Victoria Virgil Petrescu, Raffaella Aversa, Antonio Apicella, Taher M. Abu-Lebdeh, Florian Ion Tiberiu Petrescu*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.1046>**

**BIOLOGICALLY STRUCTURED MATERIALS (1772-1818)**

*Rely Victoria V. Petrescu, Raffaella Aversa, Antonio Apicella, Florian Ion Tiberiu Petrescu*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.1084>**

**INVESTIGATING THE EFFECTS OF FRP BARS ON THE SEISMIC BEHAVIOR OF REINFORCED CONCRETE COUPLING BEAMS (1819-1833)**

*Mojtaba Fallahi, Sajjad Sayyar Roudsari, Taher M Abu-Lebdeh, Florian Ion T. Petrescu*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.1058>**

**ELECTROCHEMO-MAGNETO ABRASIVE FLOW MACHINE SETUP FABRICATION AND EXPERIMENTAL INVESTIGATION OF THE PROCESS ALONGWITH MATHEMATICAL MODELING AND OPTIMIZATION (1834-1849)**

*Sachin Dhull, Ravinderjit Singh Walia, Qasim Murtaza, Mahendra Singh Nirranjan*

**DOI: <http://dx.doi.org/10.14807/ijmp.v10i8.1045>**

**November 1, 2019**

*Prof. Dr. Paulo Cesar Chagas Rodrigues*  
**Chief Editor**

*Prof. Dr. Florian Ion Tiberiu-Petrescu*  
**Advisor**

