



## Volume 7, Issue 4, December 2020

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MEGAT AZMI MEGAT JOHARI & TAKSIAH A MAJID*

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Impact Behavior of Sandwich Beams

*MARIE REICHERT & CATHERINA THIELE*

Evaluation of Fire Resistance Concerning Bond Failure for Injection  
Anchors with Variable Embedment Depths

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Filling the Industrial Data Lake in Manufacturing Companies based  
on KPIs

*ALEXANDER KOLPAKOV & AUSTIN MARIE SIPIORA*

Implications of Market Penetration of Electric and Autonomous  
Vehicles for Florida State Transportation Revenue



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*A World Association of Academics and Researchers*

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## **Mission**

ATINER is an Athens-based World Association of Academics and Researchers based in Athens. ATINER is an independent and non-profit **Association** with a **Mission** to become a forum where Academics and Researchers from all over the world can meet in Athens, exchange ideas on their research and discuss future developments in their disciplines, **as well as engage with professionals from other fields**. Athens was chosen because of its long history of academic gatherings, which go back thousands of years to *Plato's Academy* and *Aristotle's Lyceum*. Both these historic places are within walking distance from ATINER's downtown offices. Since antiquity, Athens was an open city. In the words of Pericles, ***Athens "... is open to the world, we never expel a foreigner from learning or seeing"***. ("Pericles' Funeral Oration", in Thucydides, *The History of the Peloponnesian War*). It is ATINER's **mission** to revive the glory of Ancient Athens by inviting the World Academic Community to the city, to learn from each other in an environment of freedom and respect for other people's opinions and beliefs. After all, the free expression of one's opinion formed the basis for the development of democracy, and Athens was its cradle. As it turned out, the Golden Age of Athens was in fact, the Golden Age of the Western Civilization. *Education* and *(Re)searching* for the 'truth' are the pillars of any free (democratic) society. This is the reason why *Education* and *Research* are the two core words in ATINER's name.

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All ATINER's publications including its e-journals are open access without any costs (submission, processing, publishing, open access paid by authors, open access paid by readers etc.) and is independent of presentations at any of the many small events (conferences, symposiums, forums, colloquiums, courses, roundtable discussions) organized by ATINER throughout the year and entail significant costs of participating. The intellectual property rights of the submitting papers remain with the author. Before you submit, please make sure your paper meets the [basic academic standards](#), which includes proper English. Some articles will be selected from the numerous papers that have been presented at the various annual international academic conferences organized by the different divisions and units of the Athens Institute for Education and Research. The plethora of papers presented every year will enable the editorial board of each journal to select the best, and in so doing produce a top-quality academic journal. In addition to papers presented, ATINER will encourage the independent submission of papers to be evaluated for publication.

The current issue is the fourth of the seventh volume of the *Athens Journal of Technology & Engineering (AJTE)*, published by the [Engineering & Architecture Division](#) of ATINER.

Gregory T. Papanikos, President, ATINER.



## Athens Institute for Education and Research

*A World Association of Academics and Researchers*

### 11<sup>th</sup> Annual International Conference on Civil Engineering 21-24 June 2021, Athens, Greece

The [Civil Engineering Unit](#) of ATINER is organizing its 11<sup>th</sup> Annual International Conference on Civil Engineering, 21-24 June 2021, Athens, Greece sponsored by the [Athens Journal of Technology & Engineering](#). The aim of the conference is to bring together academics and researchers of all areas of Civil Engineering other related areas. You may participate as stream leader, presenter of one paper, chair of a session or observer. Please submit a proposal using the form available (<https://www.atiner.gr/2021/FORM-CIV.doc>).

#### Academic Members Responsible for the Conference

- **Dr. Dimitrios Goulias**, Head, [Civil Engineering Unit](#), ATINER and Associate Professor & Director of Undergraduate Studies Civil & Environmental Engineering Department, University of Maryland, USA.

#### Important Dates

- Abstract Submission: **23 Nov 2020**
- Acceptance of Abstract: 4 Weeks after Submission
- Submission of Paper: **24 May 2021**

#### Social and Educational Program

The Social Program Emphasizes the Educational Aspect of the Academic Meetings of Atiner.

- Greek Night Entertainment (This is the official dinner of the conference)
- Athens Sightseeing: Old and New-An Educational Urban Walk
- Social Dinner
- Mycenae Visit
- Exploration of the Aegean Islands
- Delphi Visit
- Ancient Corinth and Cape Sounion

#### Conference Fees

Conference fees vary from 400€ to 2000€  
Details can be found at: <https://www.atiner.gr/2019fees>



## Athens Institute for Education and Research

*A World Association of Academics and Researchers*

### 9<sup>th</sup> Annual International Conference on Industrial, Systems and Design Engineering, 22-25 June 2020, Athens, Greece

The [Industrial Engineering Unit](#) of ATINER will hold its 9<sup>th</sup> Annual International Conference on Industrial, Systems and Design Engineering, 21-24 June 2021, Athens, Greece sponsored by the [Athens Journal of Technology & Engineering](#). The aim of the conference is to bring together academics, researchers and professionals in areas of Industrial, Systems, Design Engineering and related subjects. You may participate as stream leader, presenter of one paper, chair of a session or observer. Please submit a proposal using the form available (<https://www.atiner.gr/2021/FORM-IND.doc>).

#### Important Dates

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