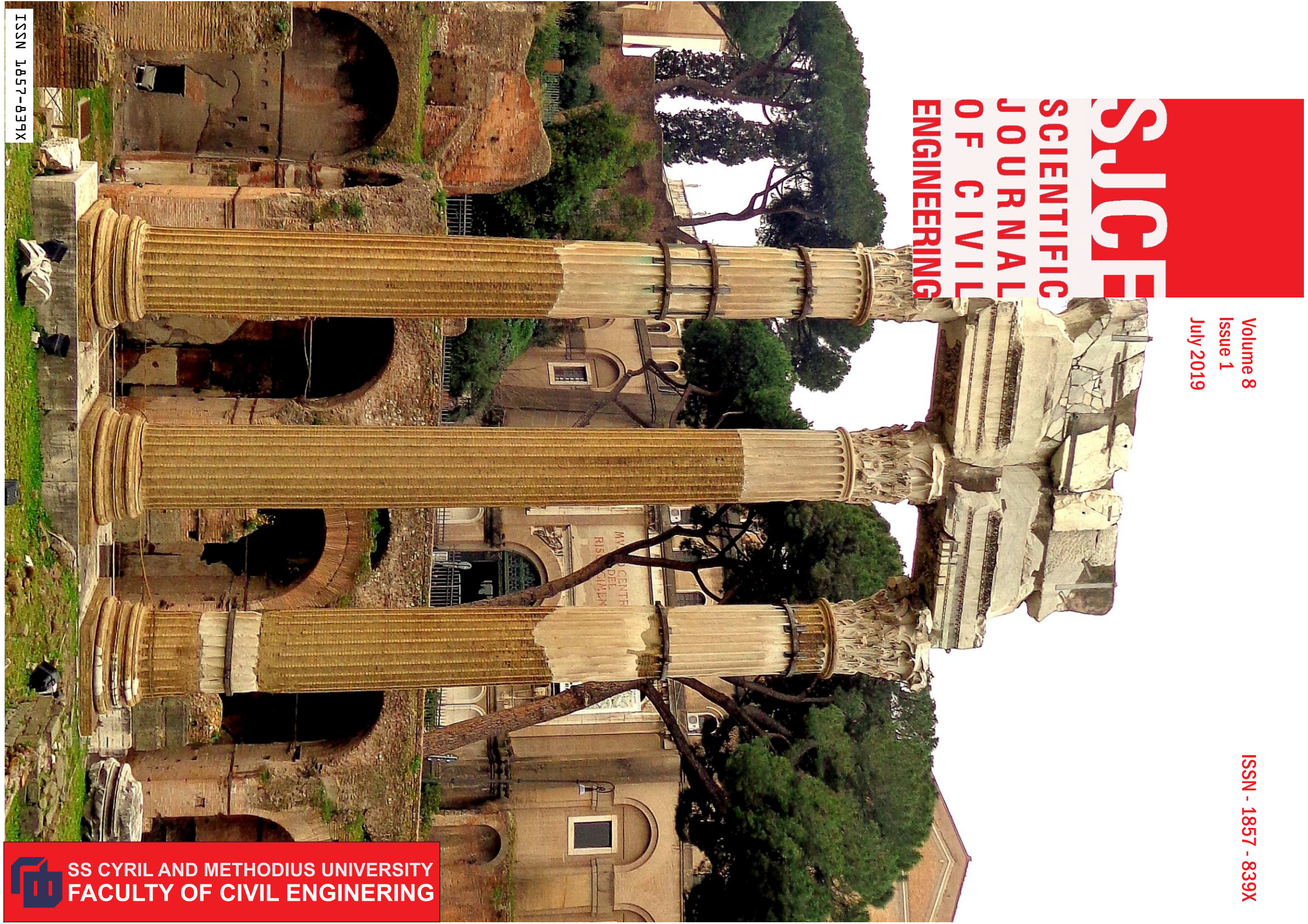


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EDITORIAL - Preface to Volume 8 Issue 1 of the Scientific Journal of Civil Engineering (SJCE)

Todorka Samardzioska EDITOR – IN - CHIEF

Dear Readers,
Scientific Journal of Civil Engineering (SJCE) was established in December 2012. It is published bi-annually and is available online at the web site of the Faculty of Civil Engineering in Skopje (www.gf.ukim.edu.mk).

This Journal welcomes original works within the field of civil engineering, which includes: all the types of engineering structures and materials, water engineering, geo-technics, highway and railroad engineering, survey and geospatial engineering, buildings and environmental protection, construction management and many others. The Journal focuses on analysis, experimental work, theory, practice and computational studies in the fields.

The international editorial board encourages all researchers, practitioners and members of the academic community to submit papers and contribute for the development and maintenance of the quality of the SJCE journal.

As an editor of the Scientific Journal of Civil Engineering (SJCE), it is my pleasure to introduce the First Issue of Volume 8. This Issue includes eight papers in different topics, which illustrates the comprehensive nature of the Journal. 2019 marks the 70th anniversary of our University and the Faculty of Civil Engineering. This Issue is dedicated to the celebration of this significant jubilee – 70 years of tradition, recognized values and quality in the education, research, and innovations.

The first two papers were originally presented at the XVI Danube-European Conference on Geotechnical Engineering. They have been updated herein. The first

paper focuses on experimental and numerical studies for control of under-seepage pressures in aquifers and for hydraulic failure prevention stabilizing measures at the landside dyke or levee toe zones. The second paper describes a practical application of the First Order Reliability Method (FORM) in a geotechnical design. The basic characteristics and formulas of Tissot compensation projection and its implementation at the territory of Republic of Macedonia are presented in the third paper, while the fourth one is dedicated to the processing of the data from precise levelling measurements in the seismic active area of the Skopje valley. The fifth paper describes a hydraulic analysis of the water hammer in branch water supply network depending on the branch distance. The sixth paper refers to the uncertainties and risks in tunnelling, and implementation of appropriate measures and management. An initial representation of the theoretical approach in the analysis of the transport of people or urban mobility through description of a specific case is shown in the seventh paper. The last paper presents methods for spatial data acquisition and data processing, exploring the possibilities of obtaining 3D Building Models by processing point cloud data generated from photos produced by Unmanned Aerial Vehicle. I hope you will enjoy this variety of topics.

The approaching summer vacation is a chance to relax, recharge and to think of new research and papers, why not? We encourage you to publish them in the next Issue of SJCE!

Sincerely Yours,
Prof. Dr. Sc. Todorka Samardzioska
July, 2019

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CONTENTS

H. Brandl, M. Szabo	
HYDRAULIC FAILURE BY UNDERSEEPAGE OF DYKES AND LEVEES	5
P. Day, N. De Koker	
PRACTICAL APPLICATION OF RELIABILITY-BASED DESIGN WITH EXAMPLES INCLUDING RELIABILITY ASSESSMENT OF DESIGN APPROACH DA2*	23
Z.Srbinoski, Z. Bogdanovski, F. Kasapovski, T.Gegovski	
TISSOT COMPENSATION PROJECTION FOR THE TERRITORY OF MACEDONIA	27
F. Kasapovski	
DATA PROCESSING FROM PRECISE LEVELING IN SEISMIC ACTIVE REGIONS	35
G. Taseski	
HYDRAULIC ANALYSIS OF THE WATER HAMMER IN BRANCH WATER SUPPLY NETWORK DEPENDING ON BRANCH DISTANCE	43
Z. Zafirovski, D. Moslavac, A. Glavinov, Z. Krakutovski, V. Gacevski	
GUIDELINES FOR RISK ANALYSIS AND MANAGEMENT IN TUNNNELLING	51
Z. Zafirovski, Z. Krakutovski, A. Glavinov, D. Moslavac, V. Gacevski	
TRANSPORTATION AND MOBILITY ANALYSIS OF A TARGET GROUP	59
V. Gjorgjiev, G. Gjorgjiev, N. Malijanska	
FROM POINT CLOUD TO 3D BUILDING MODEL	65



Become a student of the Faculty of Civil Engineering and a part of the impetus that creates and build the world! Step in the world of the successful people, because even the longest roads start with the first step. You will spend a part of your youth with us, and the youth is expensive to be misspent in vain. Your choice is an exceptional profession, for people who do believe in themselves, profession that requires prompt and courageous decisions. This profession will provide you with great privileges: your actions will remain an eternal record in the space and in the time being.

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