

Retraction (논문 취소)

# 터널형 구조물의 방재시설 가동에 따른 화재연기 거동에 관한 수치 해석적 연구

이호형<sup>1\*</sup> · 최판규<sup>2</sup> · 이상돈<sup>3</sup> · 허원호<sup>4</sup> · 조종복<sup>5</sup>

<sup>1</sup>정회원, (주)주성지앤비 대리

<sup>2</sup>정회원, (주)주성지앤비 팀장

<sup>3</sup>정회원, 한국도로공사 도로교통연구원 수석연구원

<sup>4</sup>정회원, (주)마이닝테크 대표이사

<sup>5</sup>정회원, (주)삼보기술단 부장

## A numerical study on the fire smoke behavior by operating the fire prevention system in tunnel-type structure

Ho-Hyung Lee<sup>1\*</sup> · Pan-Gyu Choi<sup>2</sup> · Sang-Don Lee<sup>3</sup> · Won-Ho Heo<sup>4</sup> · Jong-Bok Jo<sup>5</sup>

<sup>1</sup>Researcher, Jusung G&B Inc.

<sup>2</sup>Team Leader, Jusung G&B Inc.

<sup>3</sup>Senior Researcher, Korea Expressway Corporation Research Institute

<sup>4</sup>C.E.O, MiningTech Inc.

<sup>5</sup>Head of Department, Sambo Engineering

\*Corresponding Author : Ho-Hyung Lee, hhlee@gnbeng.com

### OPEN ACCESS

Journal of Korean Tunnelling and Underground Space Association  
21(1)189-199(2019)  
<https://doi.org/10.9711/KTAJ.2019.21.1.189>

eISSN: 2287-4747

pISSN: 2233-8292

Received December 4, 2018

Revised December 24, 2018

Accepted December 28, 2018



This is an Open Access article distributed under the terms of the Creative Commons Attribution

Non-Commercial License (<http://creativecommons.org/licenses/by-nc/4.0/>) which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original work is properly cited.

Copyright © 2019, Korean Tunnelling and Underground Space Association

“상기 논문은 본 학회 논문집 21권 1호(2019년 1월호, pp.189-199)에 게재되었으나 논문의 게재를 취소합니다. 해당 논문은 한국터널지하공간학회 연구윤리규정에 대하여 윤리위원회 심의를 통하여, 연구결과 소유자로부터 ‘정당한 승인’ 절차 없이 도용된 ‘한국터널지하공간학회 연구윤리 규정 제4조(연구 부정행위 금지) 제2항 2호 표절’, 사사에 관련 연구사업명 오기로 인한 ‘한국터널지하공간학회 연구윤리 규정 제7조(인용 및 참고표시)’ 관련 연구윤리 위반 논문으로 확인 되었습니다.”

The above article, which was published in JKTA (Journal of Korean Tunnelling and Underground Space Association) Vol. 21, No. 1, was retracted. It was confirmed by deliberation of the ethics committee that this article violated research ethics related to the ethic regulation No. 4 (plagiarism) of Korean Tunnelling and Underground Space Association by an illegal use of research results without their owners' permission procedure and the ethic regulation No. 7 (citation and reference indication) of Korean Tunnelling and Underground Space Association by a misentry of the research project title in acknowledgements.