

**2020.01.01 – 2025.08.31**

**期刊論文著述** (\* Corresponding Author)

Le, T. M., X. X. Nguyen, T. B. Hu, J. J. Dong\*

The influence of matedness, roughness, and surface configuration of smooth to slightly rough joints on stress-dependent apertures.

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董家鈞

善用「工程地質探勘資料庫」

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Nicholas, S. C., L. T. M. Nguyen, C. L. Kuo, J. C. Gao, C. H. Kuo\*, D. H. Tran, S. J. Wang, J. J. Dong  
Enhancing  $V_s30$  mapping in the Taipei Basin: Integrating new VS estimation functions, extrapolated VS profiles, and Kriging with varying local means.

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Estimating the permeability–depth relation of slate formation for geothermal project.

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Fluid drainage leads to thermal decomposition of wet gouge during experimental seismic slip.

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LiDAR-based 3D litho-stratigraphic models calibrated with limited boreholes.

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Revisit the classical Newmark displacement analysis for earthquake-induced wedge sliding of a rock slope.

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盧育辰、林頤謙、董家鈞、簡宛瑩、洪汶宜、田永銘

考量地層層界及地工參數空間變異性之Vs30分布圖～以臺北盆地測試區為例

*地工技術*，第178期，第27-36頁。2023年12月

潘啟平、陳麒任、董家鈞、柳志錫

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Tai, P. L., X. X. Nguyen, J. J. Dong\*

A novel method to estimate the Stress-Dependent Kozeny-Carman constant of Low-Permeability, clastic sedimentary rocks.

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董家鈞、涂家輝

邊坡危害度評估、風險管理與地質模型不確定性：從山坡地開發建築之角度思考  
*技師期刊*，第98期，第25-35頁。2022年9月

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董家鈞

台灣2017年正式成為國際工程地質IAEG會員

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Wu, W. J., L. W. Kuo\*, C. S. Ku, C. Y. Chiang, H. S. Sheu, T. D. Aprilniadi, J. J. Dong

Mixed-mode formation of amorphous materials in the creeping zone of the Chihshang Fault, Taiwan, and implications for deformation style.

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#### 研討會論文

Nicholas, C. C., L. T. M., Nguyen, C. L., Kuo, J. C., Gao, C. H. Kuo, J. J. Dong

Novel method for enhancing Vs30 mapping in urban areas with soft sediments

4th African Regional IAEG Conference. September 2025

阮玄辛、黎進明、董家鈞

板岩區滲透係數-深度關係曲線簡易估計方法

2025年第5屆海峽兩岸工程地質學術研討會。2025年8月

Yeh, C. H., Y. C. Lu, W. Y. Chien, S. Khoshnevisan, J. J. Dong, C. H. Juang

3D probabilistic geological modeling using Markov random field featuring the LiDAR and borehole data: A case study of a rock slope in Taiwan.

9<sup>th</sup> International Symposium for Geotechnical Safety and Risk (ISGSR2025). August 2025

Lu, Y. C., W. Y. Chien, S. C. Nicholas, H. Wang, J. J. Dong, C. H. Juang

Probabilistic stratigraphic and geo-property models at a regional-scale: A case study of the Taipei Basin

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Chien, W. Y., Y. C. Lu, J. J. Dong, C. H. Juang, Y. M. Tien, C. S. Ku

A probabilistic analysis for evaluating the risk of building damage induced by liquefaction settlement.  
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Rock slope failure precursor: Rainfall-pore pressure response anomalies.  
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不連續面位態引致滲透係數異向性與應力致使強度異向性對順向岩石邊坡之影響。  
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Combined Impact of Inherent and Stress-Induced Anisotropy on Rock Permeability and Slope Stability: Oda's Equation Solution and FLAC3D Simulation Analysis

4th European Regional Conference of IAEG. October 2024

Dong, J. J., C. M. Yang

Earthquake-triggered deep-seated landslides and rate dependent strength along sliding surfaces

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Studying the possible mechanisms of under-dip toppling in the Outer Western Carpathian Flysch Belt

5th Conference on Slope Tectonics. September 2024

盧育辰、Stefan Nicholas、簡宛瑩、董家鈞、葉致翔、莊長賢、田永銘

三維機率式地質及地工參數模型之模擬方法

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盧育辰、簡宛瑩、葉致翔、董家鈞、莊長賢、洪汶宜、田永銘

利用鑽探及CPT資料建立三維地質模型

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利用地表地形、地質資料與礦坑採掘跡建構三維地質模型

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涂家輝、董家鈞、劉佳怡、巫家宜

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考量三維空間地質及參數不確定性之土壤液化潛能評估

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Yanuardian, A. R., J. J. Dong, C. H. Yeh, C. H. Tu, J. Y. Wu

Analyzing the impact of rainfall-induced pore pressure on slope stability: Perspectives from a tank model using a 3-D geological model of a dip slope

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郭力維、郭思廷、阮氏貞、董家鈞

An earthquake slip simulator for gouges sheared at high slip velocity and high normal stress under pore-pressure-controlled conditions

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王筱媛、李明旭、董家鈞、李錫堤

氣候變遷情境颱風事件誘發山崩風險評估：以曾文水庫集水區為例

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葉哲璋、董家鈞、阮玄辛

臺灣地熱場地層儲存及流體流動特性-以大屯火山群和東部板岩帶為例

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Formation of under-dip toppling in the Outer Western Carpathian Flysch Belt and its possible paleo seismologic implications

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Laboratory measurement of stress-dependent fluid flow capability of intact slates, foliations and artificially generated fractures.

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The effects of the inherent distribution of discontinuities and stress-induced anisotropy on pore water pressure distribution of rock slopes.

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Predicting river blockage, early identifying the dam forming, rapidly evaluating the hazards of landslide dam - A review.

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A Novel Pulse-Decay-Balance method for aperture measurements of smooth rock joints.

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Scale effect on the determination of spatial correlation factor used in Markov random field.

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Liu, C. Y., C. H. Tu, J. J. Dong

Inherent and stress-induced anisotropy of permeability and stability of rock slopes.

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Dong, J. J., X. X. Nguyen, P. L. Tai

Laboratory measurement of fluid storage and migration parameters of intact rocks and rock joints.

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Development of three dimensional engineering geological model for landslide study

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Rainfall-pore pressure response of a dip Slope: insights from a tank model based on 3-D geological model.

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The LiDAR-based 3D stratigraphic model calibrated with limited borehole data.

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劉佳怡、董家鈞、涂家輝

不連續面先天異向性及應力異向性對岩石邊坡孔隙水壓分布之影響。

中華民國地球物理學會與中華民國地質學會112年暨學術研討會。2023年5月

林頤謙、董家鈞、盧育辰

考慮地質模型提升Vs30分布圖可靠度之研究-以臺北盆地為例

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沈楷庭、董家鈞、李錫堤、曾佳漢

利用python自動化快速繪製地震誘發山崩之山崩潛感圖-以集集地震為例。

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Scale effect of the spatial correlation length used in stochastic Markov random field: A case study in the Taipei Basin.

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between shear-wave velocity, void ratio, and effective stress and VS30 via extrapolation methods in the Taipei Basin.

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Mechanical/hydraulic aperture of 3D-printed joints in relation to JRC and surface geometry.

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Panday, S., J. J. Dong, J. Y. Yen, C. H. Lu, C. M. Yang

Active tectonics and Fault behavior analysis based on deformation of mud layer on Wuhe Tableland, Eastern Taiwan

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董家鈞

國際工程地質學(IAEG)工程地質建模準則介紹與評析

第十九屆大地工程學術研討會暨科技部成果發表會。2022年9月

沈楷庭、董家鈞、曾佳漢

利用python自動化快速繪製地震誘發山崩之山崩潛感圖

2022台灣地球科學聯合學術研討會。2022年6月

潘啟平、董家鈞、涂家輝

利用耦合馬可夫鏈測定沉積物之水平側向延伸參數—以臺北盆地研究區為例

2022台灣地球科學聯合學術研討會。2022年6月

陳愛美、董家鈞

Braking effect (velocity-strengthening) of Kaolinite under intermediate slip velocities

2022台灣地球科學聯合學術研討會。2022年6月

董家鈞

不同滑移速度下高嶺土摩擦係數-剪位移曲線探討：從鐵氟龍汙染與微觀構造切入

2022台灣地球科學聯合學術研討會。2022年6月

戴秉倫、阮玄辛、董家鈞、陳瑞昇

同步測量低滲透率岩石之孔隙率、滲透率與克林堡滑流因子以評估岩石孔隙幾何因子的新實驗方法

2022年岩盤工程暨工程地質研討會。2022年5月

陳麒任、林怡君、董家鈞

水力內寬不確定性：影響因子之探討

2022年岩盤工程暨工程地質研討會。2022年5月

黃柏歲、董家鈞

低速至高速旋轉剪儀實驗試體之鐵氟龍汙染影響的量化

中華民國地球物理學會與中華民國地質學會110年年會暨學術研討會。2021年11月

Le, T. M., J. J. Dong

The Influence of JRC and Surface Geometry on the Mechanical/Hydraulic Aperture of 3D Printed Joints.

13th Asian Regional Conference (ARC13) of IAEG. November 2021

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The Relation between Hydraulic and Mechanical Apertures of Smooth Joint under Low to High Confining Pressure.

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Discretized Clay Shell Model (DCSM) of Clayey Sandstone: Evaluating the Stress Dependent Effective Stress Coefficient of Permeability

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Rainfall-triggered Landslides in Mon State Myanmar, August 2019

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Nguyen, T. T., C. H. Tseng, J. J. Dong

Analysis of dip slope characteristics with spatial references to 3D geological modelling at Huafan University, Taiwan

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董家鈞

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