

## 5. Publication list 2023

## <u>Australia</u>

#### University of Newcastle

Andrea C. Isfeld, Mark G. Stewart and Mark J. Masia

School of Engineering, Research Associate, Centre for Infrastructure Performance and Reliability, the University of Newcastle, Newcastle, New South Wales, Australia **Structural reliability and partial safety factor assessment of unreinforced masonry in vertical bending.** Austrialian Journal of Structural Engineering 2023, Vol. 24, No. 3, 191–205 <u>https://doi.org/10.1080/13287982.2023.2173868</u>

## **Bosnia and Herzegovina and Croatia**

#### IPSA Institute, University of Sarajevo and University of Zagreb

Vanesa Jusufbašić (1), Senad Medić (2), Mario Uroš(3)

(1) Mag.ing.aedif., IPSA Institute, Sarajevo

(2) Assistant professor, University of Sarajevo - Faculty of Civil Engineering,

(3) Associate professor, University of Zagreb – Faculty of Civil Engineering,

Nonlinear static and dynamic analysis of a typical masonry building in palmoticeva street in Zagreb. Proceedings of the 2nd Croatian Conference on Earthquake Engineering - 2CroCEE. Zagreb, Croatia - March 22 to 24, 2023. DOI: <u>https://doi.org/10.5592/CO/2CroCEE.2023.99</u>

## <u>Brasil</u>

#### Universidade Estadual de Campinas and Universidade Presbiteriana Mackenzie

Ingrid Rocio Irreño Palomo<sup>a</sup>, Juan de Jesus Martínez<sup>a</sup>, Carlos Alberto Benedetty<sup>a</sup> Luiz Carlos de Almeida<sup>a</sup>, Leandro Mouta Trautwein<sup>a</sup>, Pablo Augusto Krahl<sup>b</sup> <sup>a</sup>Universidade Estadual de Campinas – UNICAMP, Faculdade de Engenharia Civil, Departamento de Estruturas, Campinas, SP, Brasil

<sup>b</sup>Universidade Presbiteriana Mackenzie – UPM, Faculdade de Engenharia Civil, Departamento de Estruturas, Campinas, SP, Brasil

Prediction of the ultimate capacity of reinforced concrete elements using nonlinear analysis methodologies. Rev. IBRACON Estrut. Mater., vol. 17, no. 2, e17210, 2024 https://doi.org/10.1590/S1983-41952024000200010

#### Universidade Federal de Goiás – UFG

Daniel de Lima Araújoa, Cleiton Rodrigues Siqueira Filhoa and Fausto Arantes Loboa. Universidade Federal de Goiás – UFG, Escola de Engenharia Civil e Ambiental, Goiânia, GO, Brasil.

**Computational modeling of plain and steel fiber-reinforced concrete beams without transverse reinforcement.** Rev. IBRACON Estrut. Mater., vol. 16, no. 3, e16311, 2023| <a href="https://doi.org/10.1590/S1983-41952023000300011">https://doi.org/10.1590/S1983-41952023000300011</a>



#### Universidade Federal de Goiás

Ygor Moriel Neuberger <sup>a</sup> and Daniel de Lima Araújo <sup>b</sup> <sup>a</sup> Universidade Federal de Goiás, Escola de Engenharia Civil e Ambiental <sup>b</sup> Universidade Federal de Goiás, Escola de Engenharia Civil e Ambiental, Rua Universitária, n° 1488, Qd 86, Setor Universitário, Goiânia/GO, CEP: 74605-220, Brazil **An improved analytical model for two-step corbels in a precast concrete system.** Engineering Structures. Volume 284, 1 June 2023, 115947.

# The Federal University of Rio de Janeiro and Instituto Federal de Educação

Eduardo M. R. Fairbairn<sup>1</sup>, Larissa D. F. Santos<sup>1</sup>, Oscar A. M. Reales<sup>1</sup>, Marina B. Farias<sup>1</sup>, Rodolfo G. M. Andrade<sup>2</sup> and Alfredo Q. Fores<sup>1</sup>

<sup>1</sup> The Federal University of Rio de Janeiro, COPPE/UFRJ, Rio de Janeiro, Brazil <sup>2</sup> Instituto Federal de Educação, Vitoria, ES, Brazil

**New Conceptions and Constructive Methods for Pumped Storage Hydropower plants.** SynerCrete 2023: International RILEM Conference on Synergising Expertise towards Sustainability and Robustness of Cement-based Materials and Concrete Structures pp 840-850.

## **Brasil and Portugal**

#### Pontifícia Universidade Católica do Rio de Janeiro, Universidade Federal Fluminense and University of Minho

Danielli Cristina Borelli Cintra<sup>a</sup>, Deane de Mesquita Roehl<sup>a</sup>, Emil de Souza Sánchez Filho<sup>b</sup>, Paulo B. Lourenço<sup>c</sup> and Nuno Mendes<sup>c</sup>.

<sup>a</sup> Pontificia Universidade Católica do Rio de Janeiro – PUC-Rio, Programa de Pósgraduação em Engenharia Civil, Rio de Janeiro, RJ, Brasil

<sup>b</sup> Universidade Federal Fluminense – UFF, Programa de Pós-graduação em Engenharia Civil, Niterói, RJ, Brasil

<sup>c</sup> Universidade do Minho, Departamento de Engenharia Civil, Guimarães, Portugal **Methodologies for assessing the structural integrity of historic masonry domes and vaults.** IBRACON Structures and Materials Journals, Rev. IBRACON Estrut. Mater., vol.17, no.4, e17406, 2024

## <u>Canada</u>

#### **University of Ottawa**

Sepideh Zaghian, Beatriz Martín-Pérez and Husham Almansour Department of Civil Engineering, University of Ottawa, Ottawa, ON, Canada. **Nonlinear finite element modeling of the impact of reinforcement corrosion on bridge piers under concentric loads.** Structural Concrete Journal of the *fib*, Volume 23, Issue 1, February 2022, Pages 138-153.

Sepideh Zaghian.

Department of Civil Engineering, Faculty of Engineering, University of Ottawa. **The Effect of Combined Environmental and Service Loads on Bridge Piers Using Non-Linear Finite Element Analysis.** Thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Civil Engineering. 2023.



#### University of Ottawa and National Research Council Canada

Maha Dabas<sup>1</sup>, Beatriz Martin-Pérez<sup>1</sup>, Husham Almansour<sup>2</sup>

<sup>1</sup>Department of Civil Engineering, University of Ottawa 800 King Edward, Ottawa, Canada

<sup>2</sup>National Research Council of Canada, 1200 Montreal Road, Ottawa, Canada

Effect of Reinforcement Corrosion on Axial and Flexural Performance of R.C. Columns. Proceedings of the 8th World Congress on Civil, Structural, and Environmental Engineering (CSEE'23) Lisbon, Portugal – March 29 – 31, 2023 Paper No. ICSECT 117 DOI: 10.11159/icsect23.117

#### University of Ottawa and Construction Research Centre/National Research Council Canada

Amina Mohammed<sup>1</sup>, Husham Almansour<sup>2</sup> and Beatriz Martín-Pérez<sup>1</sup> <sup>1</sup>Department of Civil Engineering/Faculty of Engineering, University of Ottawa, Ottawa, Canada

<sup>2</sup>Construction Research Centre/National Research Council Canada, Ottawa, Canada Simplified Seismic Evaluation of Aged Corrosion Damaged Reinforced Concrete Bridge Columns as Part of Simplified Semi-Quantitative Assessment Framework Engineering Science & Technology Volume 4 Issue 1|2023| 15. http://ojs.wiserpub.com/index.php/EST/

## **China**

#### Huaqiao University and Guangzhou Building Material Institute Limited Company

Yuli Dong<sup>a</sup>, Jintao Duan<sup>b</sup>, Dashan Zhang<sup>a</sup>, Jianyong Liu<sup>b</sup>, Sanfan Zhu<sup>a</sup>, Jianquan Qi<sup>a</sup> <sup>a</sup> College of Civil Engineering, Huaqiao University, Xiamen 361021, China <sup>b</sup> Guangzhou Building Material Institute Limited Company, Guangdong Province Enterprise Key Laboratory of Materials and Elements Fire Testing Technology, Guangzhou 510663, China

**Experimental research on fire resistance of the reduced scale immersed tunnel with fire in both traffic tubes.** Tunnelling and Underground Space Technology. Volume 132, February 2023, 104922.

## **China/Hong Kong**

#### School of Computer Science and Engineering, Sun Yat-sen University, University of Hongkong

Duojun Huang<sup>1,2</sup>, Jichang Li<sup>3</sup>, Weikai Chen<sup>4</sup>, Junshi Huang<sup>5</sup>, Zhenhua Chai<sup>5</sup>, Guanbin Li<sup>1,2†</sup> <sup>1</sup>School of Computer Science and Engineering, Sun Yat-sen University, Guangzhou, China, <sup>2</sup>Research Institute, Sun Yat-sen University, Shenzhen, China, <sup>3</sup>The University of Hong Kong, <sup>4</sup>Tencent America and <sup>5</sup>Meituan.

**Divide and Adapt: Active Domain Adaptation via Customized Learning** This CVPR paper is provided by the Computer Vision Foundation.



## <u>China/Japan</u>

#### Zhejiang University (China) and Taisei Corporation (Japan)

Weijian Zhao<sup>1</sup>; Lingmao Wang<sup>2</sup>; Yuanzhang Yang<sup>3</sup>; Hitoshi Takeda<sup>4</sup>; Tetsuo Kawaguchi<sup>5</sup> and Takahiko Watanabe<sup>6</sup>

<sup>1</sup>Professor, College of Civil Engineering and Architecture, Zhejiang Univ., Hangzhou 310058,

China; Center for Balance Architecture, Zhejiang Univ., Hangzhou 310028, China. <sup>2</sup>Graduate Student, College of Civil Engineering and Architecture, Zhejiang Univ., Hangzhou 310058, China.

<sup>3</sup>Postdoctoral Researcher, College of Civil Engineering and Architecture, Zhejiang Univ., Hangzhou 310058, China

<sup>4</sup>Chief Research Engineer, Taisei Advanced Center of Technology, Taisei Corporation, Yokohama 245-0051, Japan.

<sup>5</sup>Manager, Taisei Advanced Center of Technology, Taisei Corporation, Yokohama 245-0051, Japan.

<sup>6</sup>Assistant Manager, Taisei Advanced Center of Technology, Taisei Corporation, Yokohama 245-0051, Japan.

**Experimental and Numerical Investigation of Headed Bar Joints between Precast Concrete Bridge Slabs Loaded in Tension.** J. Bridge Eng., 2023, 28(11): 04023086.

## **China/United Kingdom**

Zhejiang University (China), Ningbo Yizhong Concrete Pile Co. Ltd. (China) and University of Edinburgh (United Kingdom)

## **Cyprus**

#### **Cyprus University of Technology**

Filippou Christiana A, Nicholas C Kyriakides and Christis Z Chrysostomou Department of Civil Engineering and Geomatics, Cyprus University of Technology, Limassol, Cyprus.

Numerical study of the seismic retrofitting of masonry-Infilled RC frames with openings using TRM. Earthquake Engineering Struct Dyn. 2023;52:776–805.

## **Denmark/United Kingdom**

#### **Technical University of Denmark and Ulster University**

Wenqian Liu<sup>1</sup>, Frank Markert<sup>1</sup>, Volodymyr Shentsov<sup>2</sup> & Luisa Giuliani<sup>1</sup>

<sup>1</sup>Technical University of Denmark, Lyngby, Denmark

<sup>2</sup>Ulster University, Newtownabbey, United Kingdom

**Nonlinear analysis of a tunnel slab under a hydrogen explosion.** Paper presented at 10th International Symposium on Tunnel Safety and Security, Stavanger, Norway. Published 26 april 2023



## **Equador**

#### Universidad politécnica Salesiana (UPS)

F.P. Moncayo-Matute <sup>a</sup>, P.B. Torres-Jara <sup>a</sup>, E. Vázquez-Silva <sup>a</sup>, P.G. Peña-Tapia <sup>b</sup>, D.P. Moya-Loaiza <sup>a</sup>, G. Abad-Farfán <sup>a</sup>

<sup>a</sup> Research Group on New Materials and Transformation Processes (GIMAT-acronym in Spanish), Universidad Politécnica Salesiana (UPS), Cuenca, Azuay, Ecuador

<sup>b</sup> Department of Neurosurgery/Society for the Fight Against Cancer, SOLCA Cancer Institute, Cuenca, Azuay, Ecuador

**Finite element analysis of a customized implant in PMMA coupled with the cranial bone.** Journal of the Mechanical Behavior of Biomedical Materials. Volume 146, October 2023, 106046.

## <u>India</u>

#### Mahindra University

Faisal Mehraj Wani<sup>1</sup>, Ruthviz Kodali<sup>2</sup>, Vanga Amulya Reddy<sup>3</sup>, Devireddy Sowmya<sup>4</sup>, Abhishek Bondada<sup>5</sup>, Semanth Reddy<sup>6</sup>, Jaya Prakash Vemuri<sup>7</sup> and Mohd Ataullah Khan<sup>7</sup> 1-7 Ecole Centrale College of Engineering, Mahindra University, India.

**Finite element analysis of unreinforced masonry walls with different bond patterns.** Sustainable Engineering and Innovation Original Research Vol. 5, No. 1, June 2023, pp.58-72 <u>https://doi.org/10.37868/sei.v5i1.id194</u>

## India/Cyprus

#### Shri Ramswaroop Memorial University and Near East University

Kushagra Kapoor<sup>a</sup>, Rishabh Joshi<sup>a</sup>, Anjali Singh<sup>a</sup>, Rifat Resatoglu<sup>b</sup> and Mohd Zain<sup>a</sup> <sup>a</sup> Faculty of Civil Engineering, Shri Ramswaroop Memorial University, Lucknow-Deva Road, Barabanki, Uttar Pradesh, India.

<sup>b</sup> Faculty of Civil and Environmental Engineering, Near East University, Near East Boulevard, Nicosia, Cyprus.

**Calibration of FEM models of historic masonry structures and its application on a local historic structure.** Conference Paper *in* Materials Today Proceedings · April 2023 DOI: 10.1016/j.matpr.2023.04.050

## India/Saudi Arabia

## Mahindra University and King Abdullah University of Science and Technology

Ruthviz Kodali<sup>1</sup>, Faisal mehraj wani<sup>2</sup>, Tariq Anwar Aquib<sup>3</sup>, Jayaprakash Vemuri<sup>4</sup> <sup>1,2,4</sup> Ecole Centrale College of Engineering, Mahindra University, Hyderabad, India, <sup>3</sup> King Abdullah University of Science and Technology, Saudi Arabia

Numerical Modelling of an Unreinforced Masonry Wall with Central Window Opening. Materials, Mechanics and Structures, 61–71. <u>https://doi.org/10.1007/978-981-19-3371-4\_6</u>



## Indonesia

#### **Universitas Diponegoro**

Purwanto<sup>1</sup>, Han Ay Lie<sup>1</sup> and Blinka Hernawan Prasetya<sup>1</sup> <sup>1</sup>Department of Civil Engineering, Universitas Diponegoro, Jl. Prof. Soedarto, SH., Semarang, 50275, Indonesia.

**Comparation of Model and Experimental Results of Elastoplastic Structure** Loaded with Bending Moment and Torsion. Journal of Advanced Civil and Environmental Engineering. Vol.6, No.2, 2023, pp 90-97.ISSN: 2599-3356 DOI: http://dx.doi.org/10.30659/jacee.6.2.90-97

#### **University Muhammadiyah Jember**

Wahyu Nur Aprillia<sup>1</sup>, Muhtar<sup>2</sup> and Amri Gunasti<sup>3</sup>

<sup>1</sup>Mahasiswa Program Studi Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah Jember. <sup>2</sup>Dosen Program Studi Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah Jember.<sup>3</sup> Dosen Program Studi Teknik Sipil, Fakultas Teknik, Universitas Muhammadiyah Jember

**Comparison Of Theoretical Cracking Moments And Concrete Beam Experiments** double Reinforced With Normal Aggregate. Jurnal Smart Teknologi Vol. 4, No. 4, Juni 2023, Halaman 100 - 102 ISSN: 2774-1702.

http://jurnal.unmuhjember.ac.id/index.php/JST

## Iran/Germany/USA

#### Toosi University of Technology (Iran), Technical University of Munich (Germany) and Clemson University (USA)

Ali Khansefid<sup>a b</sup>, Seved Mahmoudreza Yadollahi<sup>c</sup>, Gerhard Müller<sup>b</sup> and Francesca Taddei<sup>b</sup>

<sup>a</sup> Civil Engineering Department, K.N. Toosi University of Technology, Tehran, Iran

<sup>b</sup> Civil Engineering Department, Technical University of Munich, Munich, Germany

<sup>c</sup> Civil Engineering Department, Clemson University, Clemson, USA

Soil-structure-interaction effects on the seismic performance of a masonry building under geothermal power plants induced earthquakes. Structures, Volume 55, September 2023, pages 468-481

## Italy

#### **Politecnico Di Torino and Movyon**

Gabriele Bertagnoli<sup>1</sup>, Mario Ferrara<sup>1</sup>, Luca Giordano<sup>1</sup> and Marzia Malavisi<sup>2</sup>

<sup>1</sup> Department of Structural, Geotechnical and Building Engineering (DISEG),

Politecnico di Torino, 10129 Turin, Italy

<sup>2</sup> Movyon, Autostrade per l'Italia S.p.A., 50013 Limite, Italy:

Preliminary Investigation on Steel Jacketing Retrofitting of Concrete Bridges Half-Joints. Applied Sciences 2023, 13, 8181. https://doi.org/10.3390/app13148181



## **Italy/Portugal**

# University of Rome Sapienza, Politecnico di Milano (Italy), University of Minho (Portugal)

Claudia Sansoni<sup>1</sup>, Luís C. M. da Silva<sup>2</sup>, Rui Marques<sup>3</sup>, Stefano Pampanin<sup>4</sup>, Paulo B. Lourenço<sup>5</sup> <sup>1</sup>Department of Structural and Geotechnical Engineering, University of Rome Sapienza, Via Eudossiana 18, 00184 Rome, Italy.

<sup>2</sup>Department of Architecture, Built Environment and Construction Engineering, Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milano, Italy.

<sup>3</sup>ISISE, Department of Civil Engineering, University of Minho, Campus de Azurém, 4800-058 Guimarães, Portugal.

<sup>4</sup>Department of Structural and Geotechnical Engineering, University of Rome Sapienza, Via Eudossiana 18, 00184 Rome, Italy.

<sup>5</sup>ISISE, Department of Civil Engineering, University of Minho, Campus de Azurém, 4800-058 Guimarães, Portugal.

**SLaMA-URM method for the seismic vulnerability assessment of UnReinforced Masonry structures: formulation and validation for a substructure.** Journal of Building Engineering · January 2023 DOI: 10.1016/j.jobe.2022.105487

## **Italy/Spain**

#### University of Genoa and Technical University of Catalonia

Chiara Ferrero<sup>a</sup>, Chiara Calderini<sup>a</sup>, Pere Roca<sup>b</sup>

<sup>a</sup> Department of Civil, Chemical and Environmental Engineering, University of Genoa, Via Montallegro 1, 16145 Genoa, Italy

<sup>b</sup> Department of Civil and Environmental Engineering, Technical University of Catalonia (UPC-BarcelonaTech), Jordi Girona 1-3, 08034 Barcelona, Spain

**Effect of joint deformability on the experimental and numerical response of dryjoint masonry arches subjected to large support displacements.** Engineering Structures, Volume 275, Part A, Januaru 2023, 115236.

## **Italy/USA**

#### University School for Advances Studies IUSS, University of Pavia, University of California and European Centre for Training and Research in Earthquake Engineering (Eucentre)

Nicolò Damiani<sup>1,2</sup>, Matthew J. DeJong<sup>3</sup>, Luca Albanesi<sup>4</sup>, Andrea Penna<sup>2</sup> and Paolo Morandi<sup>4</sup>

<sup>1</sup>University School for Advanced Studies IUSS Pavia, Pavia, Italy

<sup>2</sup>Department of Civil Engineering and Architecture (DICAr), University of Pavia, Pavia, Italy

<sup>3</sup>Department of Civil and Environmental Engineering, University of California, Berkeley, California, USA

<sup>4</sup>European Centre for Training and Research in Earthquake Engineering (EUCENTRE), Pavia, Italy

**Distinct element modeling of the in-plane response of a steel-framed retrofit solution for URM structures.** Earthquake Engineering Struct Dyn. 2023;52:3030–3052.



## <u>Japan</u>

#### Yamaguchi University

Peilun Shao, Gakuho Watanabe and Elfrido Elias Tita. Advanced Prediction for Cyclic Bending Behavior of RC Columns Based on the Idealization of Reinforcement of Bond Properties Department of Civil and Environmental Engineering, Yamaguchi University, 2-16-1, Yamaguchi 7558611, Japan. Applied Sciences 2023, 13, 6379. https://doi.org/10.3390/app13116379

#### Yamaguchi University and Structural and Chodai Co. Ltd.

Elfrido Elias Tita<sup>1</sup>, Gakuho Watanabe<sup>1</sup>, Peilun Shao<sup>1</sup> and Kenji Arii<sup>2</sup> <sup>1</sup> Department of Civil and Environmental Engineering, Yamaguchi University, 2-16-1, Tokiwadai, Ube City, Yamaguchi 7558611, Japan. <sup>2</sup> Structural and Bridge Engineering Division, Chodai Co., Ltd., 17-18 Teppo-cho, Naka-

ku, Hiroshima City, Hiroshima 7300017, Japan.

Development and Application of Digital Twin–BIM Technology for Bridge Management. Applied Sciences 2023, 13, 7435. <u>https://doi.org/10.3390/app13137435</u>

## Japan/Australia

#### Nagaoka University of Technology and UNSW Sydney

Niamal Islam<sup>1</sup>, Takeshi Miyashita<sup>1</sup>, Sukanta Kumer Shill<sup>2</sup> and Safat Al-deen<sup>2</sup> <sup>1</sup>Nagaoka University of Technology, Nagaoka, Niigata, Japan

<sup>2</sup>UNSW Sydney, Kensington, NSW, Australia

Assessment of structural health of an existing prestressed concrete bridge. Australian Journal of Civil Engineering 21(2). DOI:10.1080/14488353.2022.2092253

## <u>Kuwait/UK</u>

#### American University of the Middel East, Northumbria University and The University of Edinburg

Enea Mustafaraj<sup>1</sup>, Marco Corradi<sup>2</sup>, Yavuz Yardim<sup>3</sup>, Erion Luga<sup>1</sup> and Muhammed Yasin Codur<sup>1</sup>

<sup>1</sup> College of Engineering and Technology, American University of the Middle East, Egaila 54200, Kuwait;

<sup>2</sup> Department of Mechanical and Construction Engineering, Wynne Jones Building, Northumbria University, Newcastle upon Tyne NE1 8ST, UK

<sup>3</sup> Department of Civil and Environmental Engineering, The University of Edinburgh, Edinburgh EH9 3FG, UK.

Ferrocement, Carbon, and Polypropylene Fibers for Strengthening Masonry ShearWalls. Materials 2023, MDPI, 16, 4597. <u>https://doi.org/10.3390/ma16134597</u>



## <u>Lithuania</u>

#### Vilnius Gediminas Technical University (Lithuania)

Vilius Masenas

Pre-tensioned reinforcement stress on the impact of the supporting analysis of the knot with notch for holding power.

Mokslas – Lietuvos ateitis / Science – Future of Lithuania. ISSN 2029-2341/eISSN 2029-2252. Volume 15, 2023, Article ID: mla.2023.17031, 1–5. https://doi.org/10.3846/mla.2023.17031

Vilius Masenas, Adas Meškenas and Juozas Valivonis

Department of Reinforced Concrete Structures and Geotechnics, Faculty of Civil Engineering, Vilnius Gediminas Technical University, Sauletekis Ave. 11, LT-10223 Vilnius, Lithuania.

Analysis of the Bearing Capacity of Reinforced Concrete Dapped-End Beams Applied Sciences 2023, 13, 5228. <u>https://doi.org/10.3390/app13095228</u>

## <u>Malaysia</u>

#### **University Putra Malaysia**

Sanjay Gokul Venigalla, Abu Bakar Nabilah, and Nor Azizi Safiee Department of Civil Engineering, Faculty of Engineering, Universiti Putra Malaysia, 43400 Serdang, Malaysia.

**Experimental and numerical simulation of bond-slip in textilereinforced concrete for multiple bond lengths.** CONCET-2022. Journal of Physics: Conference Series **2521** (2023) 012017 IOP Publishing. doi:10.1088/1742-6596/2521/1/012017

## <u>Nepal</u>

#### **Purbanchal University**

Looza Sthapit

Purbanchal University, Faculty of Engineering Gothgaun, Morang, Nepal. Khwopa Engineering College, Libali Bhaktapur.

A Thesis on Investigation of specific retrofitting techniques for mansonry school buildings in Nepal. Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Engineering in Earthquake, February 2023.

## Nepal/USA

#### Kathmandu University and Merrimack College

Shyam Sundar Khadka<sup>1</sup>, Sabin Acharya<sup>1</sup>, Ayush Acharya<sup>1</sup> and Marc J. Veletzos<sup>2</sup> <sup>1</sup>Department of Civil Engineering, Kathmandu University, Dhulikhel, Nepal, <sup>2</sup>Department of Civil Engineering, Merrimack College, North Andover, MA, United States

**Enhancement of Himalayan irregular stone masonry buildings for resilient seismic design.** Frontiers in Built Environment, published 06 March 2023. DOI 10.3389/fbuil.2023.1086008



## <u>Netherlands</u>

#### **Delft University of Technology**

Helena Catherian Bouwmeester

The glass sashimono joint designing a rigid and demountable connection for a portal frame

Graduation thesis to obtain the degree of Master of Science at Delft University of Technology to be defended publicly on Friday April 14, 2023.

#### Justyna Urszula Botor

**Modelling the interface in concrete-to-concrete connections between precast girders and cast-in-situ top layers** to obtain the degree of Master of Science at the Delft University of Technology, to be defended publicly on Thursday, March 30, 2022.

#### L.M. Gísladóttir

**Curved concrete crownwalls on vertical breakwaters. Finite Element Analysis.** In partial fulfilment of the requirements for the degree of Master of Science at the Delft University of Technology, to be defended publicly on Friday February 24, 2023.

#### Uday Jain

## Role of horizontal timber bands in the seismic response of masonry structures in the himalayan region.

In partial fulfilment of the requirements for the degree of Master of Science in Civil Engineering Track: Structural Engineering at the Delft University of Technology Faculty of Civil Engineering and Geosciences, October 27, 2023.

Satyadhrik Sharma, Michele Longo and Francesco Messali

Department of Materials Mechanics, Management and Design, Section of Applied Mechanics, Delft

University of Technology, Delft, Netherlands

## A novel tier-based numerical analysis procedure for the structural assessment of masonry quay walls under traffic loads

Frontiers in Built Environment, published 26 April 2023. DOI 10.3389/fbuil.2023.1194658

#### **Delft University of Technology and ABT**

D.A.H. Slockers

## Thermal shrinkage cracking in steel fibre reinforced underwater concrete floors. A probabilistic finite element approach.

To obtain the degree of Master of Science in Civil Engineering at the Delft University of Technology, to be defended publicly on Wednesday 15:00, 21 June 2023.



#### **Delft University of Technology and Deltares**

Alfonso Prosperi<sup>1</sup>, Michele Longo<sup>1</sup>, Paul A. Korswagen<sup>1</sup>, Mandy Korff<sup>1,2</sup>, Jan G. Rots<sup>1</sup> <sup>1</sup> Delft University of Technology, Faculty of Civil Engineering and Geosciences, Stevinweg 1, 2628

<sup>2</sup> Deltares, P.O BOX, 177, 2600 MH Delft, The Netherlands

Shape matters: Influence of varying settlement profiles due to multicausal subsidence when modelling damage in a masonry façade. Paper presented at Tenth International Symposium on Land Subsidence 2023, Delft, Netherlands.

#### **Delft University of Technology and Nobleo**

Laura Dieterich Murr

Investigation of the usage of SHCC as a closure pour to reduce the construction time of widening a prestressed concrete bridge

Thesis submitted to Delft University of Technology for the degree of Master of Science in Civil Engineering to be publicly defended on 01/November/2023

#### **Delft University of Technology and Shell Global Solutions International BV**

Jingming Ruan<sup>1</sup>, Ranajit Ghose<sup>1</sup>, and Wim A. Mulder<sup>1,2</sup> <sup>1</sup>Delft University of Technology <sup>2</sup>Shall Global Solutions International P.V.

<sup>2</sup>Shell Global Solutions International B.V.

3D geomechanical modeling of induced seismic slips considering realistic reservoir geometry with intersecting faults.

August 4, 2023. Manuscript submitted to JGR: Solid Earth.

#### Delft University of Technology and Permusteelisa Group

Evdokia Stavridou

Simulation of the Overall Performance of Glazed Unitised Curtain Walls Under Seismic Action Through Finite Element Modelling and Validation via Full-scale Experimental Testing. Thesis as part of the Master of Science Degree at the Delft University of Technology, Faculty of Civil Engineering and Geo-sciences. Master Track: Building Engineering. Specialisation: Building Physics and Technology. 31 March 2023

#### **Delft University of Technology and Wagemaker**

J.M. Schaper

Time-Dependent Finite Element Analysis in Restrained Concrete.

A study on the effect of analysing the combination of hardening processes and external loading on improving the prediction of the development of design stresses to obtain the degree of Master of Science at the Delft University of Technology,to be defended publicly on Friday August 25, 2023.

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#### Delft University of Technology, Gerardini Ingegneria Sismica, Technical University of Munich

Michele Mirra (1), Andrea Gerardini (2), Geert Ravenshorst (3), Jan-Willem van de Kuilen (4)

(1) Postdoctoral researcher, Delft University of Technology

(2) Professional engineer, Gerardini Ingegneria Sismica

(3) Assistant professor, Delft University of Technology

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#### Delft University of Technology, Gerardini Ingegneria Sismica, Studio Architettura Sergio Ghirardelli and Technical University of Munich

Michele Mirra<sup>a</sup>, Andrea Gerardini<sup>b</sup>, Sergio Ghirardelli<sup>c</sup>, Geert Ravenshorst<sup>a</sup> and Jan-Willem van de Kuilen<sup>a,d</sup>

<sup>a</sup>Bio-based structures and materials, Delft University of Technology, Delft, The Netherlands;

<sup>b</sup>Gerardini Ingegneria Sismica, Collio Val Trompia, Brescia, Italy;

<sup>c</sup>Studio Architettura Sergio Ghirardelli, Darfo Boario Terme, Brescia, Italy; <sup>d</sup>Wood Technology, Technical University of Munich, Munich, Germany

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### <u>Norway</u>

#### **Oslo Metropolitan University**

Amirhosein Shabani and Mahdi Kioumarsi

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Amirhosein SHABANI<sup>a</sup>, Mahdi KIOUMARSI<sup>a</sup>, Vagelis PLEVRIS<sup>b</sup>

a Department of Built Environment, Oslo Metropolitan University, Oslo 0166, Norway b Department of Civil and Architectural Engineering, Qatar University, Doha 2713, Qatar

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<sup>1</sup> Department of Civil Engineering, NED University of Engineering and Technology, Karachi, Pakistan.

<sup>2</sup> Department of Earthquake Engineering, NED University of Engineering and Technology, Karachi, Pakistan

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D. Bysiec, T. Maleska & A. Janda

Faculty of Civil Engineering and Architecture, Opole University of Technology, Opole, Poland

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Miłosz Jeziorski<sup>1,2</sup> and Wit Derkowski<sup>2,3</sup>

<sup>1</sup>Consolis Group Technology Development Centre, Łódź, Poland

<sup>2</sup>Chair of Reinforced and Prestressed Concrete Structures, Cracow University of Technology, Cracow, Poland

<sup>3</sup> Linnæus University, Växjö, Sweden

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<sup>2</sup> Faculty of Engineering, University of Porto, Portugal

<sup>2</sup> Mota-Engil, Engenharia e Construção S.A., Portugal

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<sup>1</sup>Construct, Faculty of Engineering, University of Porto, Porto, Portugal
<sup>2</sup>proMetheus, Instituto Politécnico de Viana do Castelo, Viana do Castelo, Portugal
<sup>3</sup>Mota-Engil, Engenharia e Construção S.A., Porto, Portugal

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## <u>Portugal/Spain</u>

#### University of Minho (Portugal), Consejo Superior de Investigaciones Científicas (CSIC) (Spain).

Javier Ortega<sup>a,b</sup>, , Nuno Mendes<sup>b</sup>, Graça Vasconcelos<sup>b</sup>

<sup>a</sup> Instituto de Tecnologías Físicas y de la Informaci'on "Leonardo Torres Quevedo", Consejo Superior de Investigaciones Científicas (CSIC), C/Serrano 144, 28006 Madrid, Spain

<sup>b</sup> University of Minho, ISISE, ARISE, Department of Civil Engineering, Guimar<sup>aes</sup>, Campus de Azur<sup>em</sup>, 4800-058 Guimaraes, Portugal

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## Sri Lanka Institute of Information Technology and School of Natural and Built Environment

Gobithas Tharmarajah<sup>1</sup>, Su Taylor<sup>2</sup> and Desmond Robinson<sup>2</sup>

<sup>1</sup> Department of Civil Engineering, Faculty of Engineering, Sri Lanka Institute of Information Technology,

New Kandy Road, Malabe 10115, Sri Lanka

<sup>2</sup> School of Natural and Built Environment, Queen's University Belfast, Belfast BT9 5AG, UK.

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## Switzerland/Spain

#### ETH Zurich, Universitat Politècnica de Catalunya and École Polytechnique Fédérale de Lausanne.

David López López <sup>a</sup>, Ernest Bernat Maso <sup>b</sup>, Savvas Saloustros <sup>c</sup>, Lluís Gil <sup>d</sup>, Pere Roca <sup>e</sup> <sup>a</sup> ETH Zurich, Department of Civil, Environmental and Geomatic Engineering, Switzerland

<sup>b</sup> Universitat Politècnica de Catalunya, Laboratory for the Technological Innovation of Structures and Materials, Spain

<sup>c</sup> École Polytechnique Fédérale de Lausanne, Earthquake Engineering and Structural Dynamics Laboratory, Switzerland

<sup>d</sup> Universitat Politècnica de Catalunya, Department of Strength of Materials and Engineering Structures, Spain

<sup>e</sup> Universitat Politècnica de Catalunya, Department of Civil and Environmental Engineering, Spain

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#### University and LNEC

I. Tomić<sup>1</sup>, A. Penna<sup>2</sup>, M. de Jong3, C. Butenweg<sup>4</sup>, A. A. Correia<sup>5</sup> and P. X. Candeias<sup>5</sup> <sup>1</sup> Earthquake Engineering and Structural Dynamics Laboratory (EESD), School of Architecture, Civil and Environmental Engineering (ENAC), Ecole Polytechnique Federale de Lausanne (EPFL), Lausanne, Switzerland

2 Department of Civil Engineering and Architecture (DICAr), University of Pavia, Pavia, Italy

3 Department of Civil Engineering, McGill University, Montreal, Quebec, Canada 4 Center for Wind and Earthquake Engineering, RWTH Aachen University, Aachen, Germany

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## <u>Thailand</u>

#### King Mongkut's University of Technology Thonburi

Thanapon Tipsunavee, Goran Arangjelovski and Pornkasem Jongpradist Construction Innovations and Future Infrastructures Research Center, Department of Civil Engineering, Faculty of Engineering, King Mongkut's University of Technology Thonburi, Bangkok 10140, Thailand;

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## <u>Turkey</u>

#### Hacettepe University and Ankara University

Ayhan Doğan<sup>1</sup> and Ünal Dikmen<sup>2</sup>

<sup>1</sup> Hacettepe University, Başkent OSB Vocational Higher School of Technical Sciences, Ankara,Turkey, ORCID: 0000-0002-9872-8889

<sup>2</sup> Ankara University, Faculty of Engineering, Geophysical Engineering, Ankara, Turkey, ORCID: 0000-0002-7603-4296

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Vildan G. Mentese <sup>a</sup>, Oguz Gunes<sup>b</sup>,

Oguz C. Celik<sup>c</sup>, Burcu Gunes<sup>b</sup>, Ayse Avsin<sup>d</sup>, Mehmet Yaz<sup>d</sup>

<sup>a</sup> Istanbul Metropolitan Municipality – Dept. of Cultural Assets Conservation, Turkey

<sup>b</sup> Istanbul Technical University, Dept. of Civil Engineering, Turkey

<sup>c</sup> Istanbul Technical University, Dept. of Architecture, Turkey

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#### **Inonu Unversity and Firat University**

Alper Özmen<sup>1</sup> and Erkut Sayin<sup>2</sup>

<sup>1</sup> Inonu University, Department of Civil Engineering Malatya, Turkey

<sup>2</sup> Firat University, Department of Civil Engineering, Elazig, Turkey

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# Teesside University (United Kingdom), University of Newcastle (Australia) and University of Technology Sydney (Australia).

Imrose B. Muhit<sup>a</sup>, Mark G. Stewart<sup>b</sup> and Mark J. Masia<sup>c</sup>

<sup>a</sup> School of Computing, Engineering and DigitalTechnologies, Teesside University, Middlesbrough, United Kingdom

<sup>b</sup> Centre for Built Infrastructure Resilience, University of Technology Sydney, Ultimo, Australia.

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<sup>a</sup> School of Computing, Engineering and DigitalTechnologies, Teesside University, Middlesbrough, United Kingdom

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University College London and Università degli Studi di Trento

Luca Possidente<sup>1</sup> and Jérôme Randaxhe<sup>2</sup>

<sup>1</sup> University College London

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## Effects of Axial Load and Tensile Strength on Reinforced UHPC Plastic Hinge Length

## **USA/The Netherlands**

#### **AECOM and DIANA FEA**

Dr. Navid Allahverdi<sup>1</sup>, Dr. Mehdi Bakhshi<sup>1</sup>, Dr. Maziar Partovi<sup>2</sup> and Dr. Verya Nasr<sup>1</sup>

<sup>1</sup>AECOM, 125 Broad St. 16th Floor, New York, NY 10004 USA

<sup>2</sup>DIANA FEA BV, Thijsseweg 11, 2629 JA Delft, The Netherlands

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