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Steel Structural and Construction

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1749th Conference

Proceedings of

International Conference on

CIVIL & STRUCTURAL ENGINEERING

June 21-22, 2018 Paris, France







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Scientific Program

Day 1 June 21, 2018

09:30-10:00 Registrations

Conference Hall: Bruxelles

conferenceseries.com **10:00-10:30** **Opening Ceremony**

Keynote Forum

10:30-11:20 **Causes and prevention of fall accidents in the us construction industry**
Gouranga Banik, Oklahoma State University, USA

Group Photo
Networking & Refeshments Break 11:20-11:30

Sessions: Structural Analysis | Structural Designing | Footing | Geology In Civil Engineering | Structural Geology | Modular Constructions | Pavement Design | Cracks In Building | Steel Structures | Reinforced Concrete Structure | Environmental Engineering | Steel Construction | Design Of Special Structures | Tunnel Construction | Water Resource Engineering |

Session Introduction

11:30-12:10 **Analytical and finite element analyses of thin-walled beams vibration**
Jrad Wassim, Université de Lorraine, France

12:10-12:50 **A novel nonlinear modeling technique for beam-column joints reinforced by plain bars**
Mahdi Adibi, University of Bojnord, Iran

Lunch Break 12:50-13:20 @Food and More

13:20-14:00 **Analysis of RC beam with a hole using artificial neural network**
Hamad Alduaij, Kuwait institute for scientific research, Kuwait

14:00-14:40 **Effect of silica fume and diopside microdispersed additives on the strength of concrete**
Valery Rudyak, Novosibirsk State University of Architecture and Civil Engineering, Russia

14:40-15:20 **Performance of Reinforced concrete wall with opening using analytical model**
Youssef Ibrahim, Arab Academy for Science, Technology & Maritime Transport, Africa

Networking & Refeshments Break 15:20-15:30 @ Le Foyer

Poster Presentaion 15:30-15:50 @ Le Foyer

15:50-16:30 **Feasibility study on a cumulative damage assessment method for a reinforced concrete slab under blast loads**
Seung-Hun, Sung, Agency for Defense Development, South Korea

Session

16:30-17:10 **The effect of beam-column connections and soil on the seismic behavior of intermediate steel moment-resisting frames**
Hamed Rahman Shokrgozar, University of Mohaghegh Ardabili, Iran

17:10-17:50 **The practical application of chinese traditional geomantic omen theory in BuildingInformation Modelling**
Zhang YiNing, The University of Nottingham Ningbo China, China

Day-2 June 22

Networking @ Bruxelles

Group Photo

Lunch Break 12:30-13:00

UPCOMING CONFERENCES

International Conference on Artificial Intelligence, Robotics & IoT
August 21-22, 2018 Paris, France
https://artificialintelligenceiot.enggconferences.com/

30th Annual Congress on Nanotechnology and Nanomaterials
September 10-11, 2018 Stockholm, Sweden
https://nanotechnology.annualcongress.com/

31st European Congress on Nanotechnology and Materials Engineering
Oct 25-26, 2018 Budapest, Hungary
https://nanotechnology-materialscience.materialsconferences.com/



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International Journal of Neurorehabilitation	2376-0281
Multiple Sclerosis	2376-0389
Neurological Disorders	2329-6895
Neurology & Neurophysiology	2155-9562
Neurology and Neuroscience	2171-6625
Neuropsychiatry	-
Neuroscience & Clinical Research	-
Schizophrenia Journal	-

Health Care & Nursing

Advanced Practices in Nursing	-
Community & Public Health Nursing	-
Nursing & Care	2167-1168
Nursing & Clinical Research	-
Patient Care	-
Perioperative & Critical Intensive Care Nursing	-
Research & Reviews: Journal of Nursing and Health Sciences	-

Pharmaceutical Sciences

Advances in Pharmacoepidemiology & Drug Safety	2167-1052
Alcoholism & Drug Dependence	2329-6488
Bioanalysis & Biomedicine	1948-593X
Biochemistry & Pharmacology: Open Access Journal	2167-0501
Bioequivalence & Bioavailability	0975-0851
Biomarkers in Drug Development	2327-4441
Biomarkers Journal	-
Biomolecular Research & Therapeutics	2167-7956
Cardiovascular Pharmacology: Open Access	2329-6607
Clinical & Experimental Pharmacology	2161-1459
Clinical Pharmacology and Biopharmaceutics	2167-065X
Current Trends in Nutraceuticals	-
Developing Drugs	2329-6631
Diagnostic Techniques & Biomedical Analysis	-
Drug Designing: Open Access	2169-0138
Drug Metabolism & Toxicology	2157-7609
in Silico & in Vitro Pharmacology	-
Molecular Enzymology and Drug Targets	-
Molecular Pharmaceutics & Organic Process Research	2329-9053
Pharmaceutica Analytica Acta	2153-2435
Pharmaceutical Care & Health Systems	2376-0419
Pharmaceutical Microbiology	-
Pharmaceutical Regulatory Affairs: Open Access	2167-7689
Pharmaceutical Sciences & Emerging Drugs	-
Pharmaceutics & Drug Delivery Research	2325-9604
Pharmacoeconomics: Open Access	-
Pharmacogenomics and Pharmacoproteomics	2153-0645
Pharmacognosy & Natural Products	-
Pharmacokinetics & Experimental Therapeutics	-
Pharmacological Reports	-
Pharmacovigilance	2329-6887
Research & Reviews: Journal of Hospital and Clinical Pharmacy	-
Research & Reviews: Journal of Pharmaceutical Analysis	2320-0812
Research & Reviews: Journal of Pharmaceutical Quality Assurance	-
Research & Reviews: Journal of Pharmaceutics and Nanotechnology	2347-7857
Research & Reviews: Journal of Pharmacognosy and Phytochemistry	2321-6182
Research & Reviews: Journal of Pharmacy and Pharmaceutical Sciences	2320-1215
Virology & Antiviral Research	2324-8955

Physics

Astrophysics & Aerospace Technology	2329-6542
Research & Reviews: Journal of Pure and Applied Physics	2320-2459
Vortex Science and Technology	2090-8369

Social & Political Sciences

Anthropology	2332-0915
Arts and Social Sciences Journal	2151-6200
Civil & Legal Sciences	2169-0170
Forensic Anthropology	-
Global Media Journal	1550-7521
Intellectual Property Rights: Open Access	2375-4516
Mass Communication & Journalism	2165-7912
Political Science & Public Affairs	2332-0761
Research & Reviews: Journal of Educational Studies	-
Research & Reviews: Journal of Social Sciences	-
Socialomics	2167-0358
Sociology & Criminology	2375-4435

Veterinary Sciences

Animal Nutrition	-
Primatology	2167-6801
Research & Reviews: Journal of Veterinary Sciences	-
Research & Reviews: Journal of Zoological Sciences	2321-6190
Veterinary Science & Medical Diagnosis	2325-9590
Veterinary Science & Technology	2157-7579

Impact Factors* (IF)

Journal Name	Pubmed Short Name	Impact Factor
Biological Systems: Open Access	Biol Syst Open Access	0.76
Journal of Biotechnology & Biomaterials	J Biotechnol Biomater	1.94
Journal of Psychology & Psychotherapy	J Psychol Psychother	1.3
Advanced Techniques in Biology & Medicine	Adv Tech Biol Med	1.08
AIDS & Clinical Research	J AIDS Clin Res	2.7
Autism Open Access	Autism Open Access	3.52
Biochemistry & Physiology: Open Access	Biochem Physiol	1.03
Diversity Equality in Health & Care	Divers Equal Health Care	2.49
Drug Designing: Open Access	Drug Des	6
Fungal Genomics & Biology	Fungal Genom Biol	1.15
International Journal of Genomic Medicine	Int J Genomic Med	0.67
Journal of Addiction Research & Therapy	J Addict Res Ther	2.86
Journal of Alzheimers Disease & Parkinsonism	J Alzheimers Dis Parkinsonism	1.18
Journal of Fertilization: In Vitro	JFIV Reprod Med Genet	1
Journal of Genetic Syndromes & Gene therapy	J Genet Syndr Gene Ther	2.34
Journal of Microbial & Biochemical Technology	J Microb Biochem Technol	2.5
Journal of Nursing & Care	J Nurs Care	1.6
Journal of Osteoporosis and Physical Activity	J Osteopor Phys Act	0.66
Journal of Yoga & Physical Therapy	J Yoga Phys Ther	1.17
Molecular Biology	Mol Biol	1.85
Neurology & Neurophysiology	J Neurol Neurophysiol	0.77
Primary health care	Prim Health Care	1
Quality in Primary Care	Qual Prim Care	3.88
Tissue Science & Engineering	J Tissue Sci Eng	2.72
Biochemistry & Analytical Biochemistry	Biochem Anal Biochem	2.6
Molecular and Genetic Medicine	J Mol Genet Med	2.89
Advancements in Genetic Engineering	Adv Genet Eng	1
Enzyme Engineering	Enz Eng	2.3
Depression and Anxiety	J Depress Anxiety	1
Human Genetics & Embryology	Human Genet Embryol	1.2
Current Synthetic and Systems Biology	Curr Synthetic Sys Biol	0.8
Hereditary Genetics: Current Research	Hereditary Genet	1.2
International Journal of Emergency Mental Health and Human Resilience	Int J Emerg Ment Health	6.5
Spine	J Spine	1.9
Cloning & Transgenesis	Clon Transgen	1.5
Journal of Medical Microbiology & Diagnosis	J Med Microb Diagn	1.9
Biosensors Journal	Biosens J	0.33
Defense Management	J Def Manag	0.5
Review of Public Administration and Management	Review Pub Administration Manag	0.2
Single cell biology	Single Cell Biol	1
Gerontology & Geriatric Research	J Gerontol Geriatr Res	1
Neuroinfectious Diseases	J Neuroinfect Dis	2.4
Cell Science & Therapy	J Cell Sci Ther	1.37
Molecular Biomarkers & Diagnosis	J Mol Biomark Diagn	2.1
Brain Disorders & Therapy	Brain Disord Ther	1.6
Clinical Case Reports	J Clin Case Rep	1.2
Gene Technology	Gene Technol	0.83
Socialomics	J Socialomics	2.3
Journal of Trauma and Treatment	J Trauma Treat	0.6
Translational Biomedicine	Transl Biomed	1.06
Journal of Neurology and Neuroscience	J Neurol Neurosci	0.88
Research & Reviews: Journal of Botanical Sciences	J Bot Sci	0.33
Journal of Psychiatry	J Psychiatry	2.32
Anaplastology	Anaplastology	0.73
Tropical Medicine & Surgery	Trop Med Surg	0.4
Orthopedic & Muscular System: Current Research	Orthop Muscular Syst	0.32
Pediatrics & Therapeutics	Pediat Therapeut	1.32
Sports Medicine & Doping Studies	J Sports Med Doping Stud	1.45
Journal of Oral Hygiene & Health	J Oral Hyg Health	0.52
Emergency Medicine	Emerg Med (Los Angel)	0.875
Journal of Transplantation Technologies & Research	J Transplant Technol Res	1.39
Journal of Hypertension: Open Access	J Hypertens (Los Angel)	0.92
International Journal of Waste Resources	Int J Waste Resour	1.95
Surgery: Current research	Surgery Curr Re	0.587
Oral Health and Dental Management	Oral Health Dent Manag	1.23
International Journal of Advancement technology	Int J Adv Tech	5.08
Translational Medicine	Transl Med (Sunnyvale)	1.312
Air and Water Borne Diseases	Air Water Borne Diseases	0.6
Journal of Coastal Zone Management	J Coast Zone Manag	0.54
Biology and Medicine	Biol Med (Aligarh)	3.07
Journal of Bioterrorism and Biodefense	J Bioterror Biodef	0.38
Journal of Tropical Diseases & Public Health	J Trop Dis	0.83
Journal of Surgery	Journal of Surgery [Jurnalul de chirurgie]	0.08
Nephrology & Therapeutics	J Nephrol Ther	0.318
Journal of Fundamentals of Renewable Energy and Applications	J Fundam Renewable Energy Appl	1.41
Advances in Pharmacoepidemiology & Drug Safety	Adv Pharmacoepidemiol Drug Saf	1.37
Bioanalysis & Biomedicine	J Bioanal Biomed	1.67
Biochemistry & Pharmacology: Open Access	Biochem Pharmacol (Los Angel)	2.09
Bioequivalence & Bioavailability	J Bioequiv Availab	1.88
Biomolecular Research & Therapeutics	J Biomol Res Ther	1.67
Cardiovascular Pharmacology: Open Access	Cardiol Pharmacol	1.77
Clinical & Experimental Pharmacology	Clin Exp Pharmacol	1.83
Clinical Pharmacology & Biopharmaceutics	Clin Pharmacol Biopharm	1.69
Data Mining in Genomics & Proteomics	J Data Mining Genomics Proteomics	2
Drug Metabolism & Toxicology	J Drug Metab Toxicol	1.37
Ergonomics	J Ergonomics	1.38
Glycomics & Lipidomics	J Glycomics Lipidomics	1.82
Health & Medical Informatics	J Health Med Inform	1.98
Metabolomics: Open Access	Metabolomics (Los Angel)	3.03
Nanomedicine & Biotherapeutic Discovery	J Nanomedine Biotherapeutic Discov	2.69
OMICS Journal of Radiology	OMICS J Radiol	0.54
Pharmaceutica Analytica Acta	Pharm Anal Acta	1.83
Pharmaceutical Regulatory Affairs: Open Access	Pharm Regul Aff	1.88
Pharmacogenomics & Pharmacoproteomics	J Pharmacogenomics Pharmacoproteomics	1.69
Pharmacovigilance	J Pharmacovigil	2.65
Phylogenetics & Evolutionary Biology	J Phylogenetics Evol Biol	2.76
Proteomics & Bioinformatics	J Proteomics Bioinform	2.55
Advances in Automobile Engineering	Adv Automob Eng	1.750
Advances in Robotics & Automation	Adv Robot Autom	0.813
Arts and Social Sciences Journal	Arts Social Sci J	1.231
Bioceramics Developments and Applications	Bioceram Dev Appl	0.958
Business & Financial Affairs	J Bus & Fin Aff	2.000
Generalized Lie Theory and Applications	J Generalized Lie Theory Appl	1.750
Irrigation & Drainage Systems Engineering	Irrigat Drainage Sys Eng	4.286
Industrial Engineering & Management	Ind Eng Manage	0.474
Aeronautics & Aerospace Engineering	J Aeronaut Aerospace Eng	1.407
Applied & Computational Mathematics	J Appl Computat Math	0.581
Architectural Engineering Technology	J Archit Eng Tech	1.071
Accounting & Marketing	J Account Mark	0.500
Aquaculture Research & Development	J Aquac Res Development	1.272
Bioengineering & Biomedical Science	J Bioeng Biomed Sci	1.235
Biometrics & Biostatistics	J Biomet Biostat	1.272
Biosensors & Bioelectronics	J Biosens Bioelectron	2.137
Civil & Environmental Engineering	J Civil Environ Eng	1.294
Cytology & Histology	J Cytol Histol	0.569
Civil & Legal Sciences	J Civil Legal Sci	0.286
Ecosystem & Ecography	J Ecosyst Ecogr	1.806
Electrical & Electronic Systems	J Elec Electron Syst	0.533
Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091

Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091
Petroleum & Environmental Engineering	J Pet Environ Biotechnol	2.839
Stock & Forex Trading	J Stock Forex Trad	0.300
Textile Science & Engineering	J Textile Sci Eng	0.667
Tourism & Hospitality	J Tourism Hospit	1.190
Telecommunications System & Management	J Telecommun Syst Manage	0.800
Physical Mathematics	J Phys Math	4.500
Nanomedicine & Nanotechnology	J Nanomed Nanotechnol	4.68
Arabian Journal of Business and Management Review	Arab J Bus Manage Rev	1.42
Research and Reviews: Journal of Engineering and Technology	Engineering and Technology	0.14
Journal of Material Sciences & Engineering	J Material Sci Eng	1.31
Journal of Mass Communication & Journalism	J Mass Communicat Journalism	0.62
Journal of Powder Metallurgy & Mining	J Powder Metall Min	0.71
Journal of Applied Mechanical Engineering	J Appl Mech Eng	1.65
Archives of Clinical Microbiology		0.35
Dentistry	Dentistry	1.22
Journal of Diabetes & Metabolism	J Diabetes Metab	1.77
Otolaryngology: Current Research	Otolaryngol (Sunnyvale)	0.22
Journal of Metabolic Syndrome	J Metabolic Synd	1.27
Journal of Primatology	J Primatol	0.53
Journal of Thyroid Disorders & Therapy	Thyroid Disorders Ther	0.43
Jounal of Novel Physiotherapies	J Nov Physiother	1.24
Journal of Stem Cell Research & Therapy	J Stem Cell Res Ther	2.78
Anatomy & Physiology: Current Research	Anat Physiol	1
Pancreatic Disorders & Therapy	Pancreat Disord Ther	0.54
Journal of Cancer Science & Therapy	J Cancer Sci Ther	4.203
Journal of Biomedical Sciences		0.2
Journal of Nutritional Disorders & Therapy	J Nutr Disord Ther	1.46
Medical & Surgical Urology	Med Surg Urol	0.3
Journal of Biochips & Tissue Chips	J Biochip Tissue Chip	1.7
Journal of Liver	J Liver	0.08
Journal of Family Medicine and Medical Research	Fam Med Med Sci Res	0.78
Gynecology & Obstetrics	Gynecol Obstet (Sunnyvale)	0.52
Journal of Integrative Oncology	J Integr Oncol	1.67
Journal of Neonatal Biology	J Neonatal Biol	0.55
Journal of Glycobiology	J Glycobiology	0.8
Journal of Blood & Lymph	J Blood Lymph	0.12
Journal of Arthritis	J Arthritis	1.87
Journal of Membrane Science & Technology	J Membra Sci Technol	1.18
Medicinal Chemistry	Med Chem (Los Angeles)	2.64
Journal of Physical Chemistry & Biophysics	J Phys Chem Biophys	0.75
Organic Chemistry: Current Research	Organic Chem Curr Res	1.94
Journal of Bioprocessing & Biotechniques	J Bioprocess Biotech	1.74
Journal of Environmental & Analytical Toxicology	J Environ Anal Toxicol	2.58
Journal of Chemical Engineering & Process Technology	J Chem Eng Process Technol	1.21
Journal of Computer Science & Systems Biology	J Comput Sci Syst Biol	1.62
Journal of Analytical & Bioanalytical Techniques	J Anal Bioanal Tech	2.16
Journal of Plant Biochemistry & Physiology	J Plant Biochem Physiol	2.28
Journal of Chromatography & Separation Techniques	J Chromatogr Sep Tech	1.78
Journal of Thermodynamics & Catalysis		0.91
Community Medicine & Health Education	J Community Med Health Educ	1.27
Epidemiology: Open Access	Epidemiology (Sunnyvale)	1.35
Obesity & Weight Loss Therapy	J Obes Weight Loss Ther	0.94
Pain & Relief	J Pain Relief	1.14
Palliative Care & Medicine	J Palliat Care Med	0.88
Steroids & Hormonal Science	J Steroids Horm Sci	0.65
Gastrointestinal & Digestive System	J Gastrointest Dig Syst	0.43
Hair: Therapy & Transplantation		0.6
Andrology	Andrology (Los Angel)	1.16
Endocrinology & Metabolic Syndrome	Endocrinol Metab Syndr	1.12
Internal Medicine		2.48
Sleep Disorders & Therapy	J Sleep Disord Ther	0.5
Nuclear Medicine & Radiation Therapy	J Nucl Med Radiat Ther	0.88
Alternative & Integrative Medicine	Altern Integr Med	1.11
Pulmonary & Respiratory Medicine	J Pulm Respir Med	1.01
Occupational Medicine Health Affairs	Occup Med Health Aff	0.85
Reproductive System & Sexual Disorders	Reprod Syst Sex Disord	1.25
Medical Diagnostic Methods		0.29
Blood Disorders & Transfusion	J Blood Disord Transfus	0.5
General Medicine	Gen Med (Los Angel)	0.86
Bioenergetics: Open Access	Bioenergetics	3.1
Chemotherapy: Open Access	Chemotherapy (Los Angel)	1.8
Clinical & Experimental Pathology	J Clin Exp Pathol	1.54
Carcinogenesis & Mutagenesis	J Carcinog Mutagen	1.9
Clinical Research & Bioethics	J Clinic Res Bioeth	0.95
Vaccines & Vaccination	J Vaccines Vaccin	1.8
Immunome Research	Immunome Res	7.1
Clinical & Experimental Ophthalmology	J Clin Exp Ophthalmol	1.11
Clinical & Experimental Dermotology Research	J Clin Exp Dermatol Res	0.5
Clinical & Experimental Cardiology	J Clin Exp Cardiolog	1.33
Clinical Microbiology: Open Access	Clin Microbiol	0.7
Anesthesia & Clinical research	J Anesth Clin Res	0.7
Mycobacterial Diseases	Mycobact Dis	0.9
Clinical Toxicology	J Clin Toxicol	1.39
Clinical Trials & Research	J Clin Trials	1.33
Antivirals & Antiretrovirals	J Antivir Antiretrovir	1.27
Fermentation Technology	Ferment Technol	3.44
Clinical & Cellular immunology	J Clin Cell Immunol	2.019
Allergy & Therapy	J Allergy Ther	0.762
Bacteriology & Parasitology	J Bacteriol Parasitol	2.025
Rheumatology: Current Research	Rheumatology (Sunnyvale)	1.522
Virology & Mycology	Virol Mycol	0.69
Clinics in Mother and Child Health	Clinics Mother Child Health	0.432
Womens Health Care	J Womens Health Care	0.79
Marine Science: Research & Development	J Marine Sci Res Dev	0.45
Plant Pathology & Microbiology	J Plant Pathol Microbiol	1.75
Geology & Geophysics	J Geol Geophys	0.91
FisheriesSciences	J Fisheries Sci	0.51
Fisheries and Aquaculture Journal	Fish Aquac J	0.69
Bioremediation & Biodegradation	J Bioremediat Biodegrad	2.1
Advances in Crop Science and Technology	Adv Crop Sci Tech	0.39
Journal of Remote Sensing & GIS	J Geophys Remote Sens	0.77
Biofertilizers & Biopesticides	J Biofertil Biopestic.	1.19
Hydrology: Current Research	Hydrol Current Res	1.12
Probiotics & Health	J Prob Health	0.69
Veterinary Science & Technology	J Veterinar Sci Technolo	2.5
Medicinal & Aromatic Plants	Med Aromat Plants	2.02
Forest Research	Forest Res	1.69
International Journal of Sensor Networks and Data Communications	Sensor Netw Data Commun	1.66
Innovative Energy Policies	Innov Energ Policies	0.88
Biodiversity & Endangered Species	J Biodivers Endanger Species	0.25
Biosafety	Biosafety	0.49
Agrotechnology	Agrotechnol	0.69
Journal of Traditional Medicine and Clinical Naturopathy	J Tradition Med Clin Naturopth	0.49
Nutrition & Food Sciences	J Nutr Food Sci	1.14
Entomology, Ornithology & Herpetology	Entomol Ornithol Herpetol	1.26

Impact Factor Calculation:

Impact Factor was established by dividing the number of articles published in 2012 and 2013 with the number of times they are cited in 2014 based on Google search and the Scholar Citation Index database. If 'X' is the total number of articles published in 2012 and 2013, and 'Y' is the number of times these articles were cited in indexed journals during 2014 than, impact factor = Y/X



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Supporting Journals



Supporting Journals

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European Food Chemistry Congress
July 26-27, 2018 Amsterdam, Netherlands

World Aquaculture and Fisheries Congress
August 27-28, 2018 Amsterdam, Netherlands

International congress on **Food Processing, Saftety and Packaging**
September 20-21, 2018 Prague, Czech Republic

Animal Science and veterinary

International Livestock Congress
October 18-19, 2018 Paris, France

Annual Congress on **Veterinary and Animal Health**
August 2-3, 2018 Oslo,Norway

Cardiology

3rd World Heart Congress
April 19-20, 2018 Amsterdam, Netherlands

World Cardiology and Cardiologist Meeting
September 11-12, 2018 Stockholm, Sweden

28th World Congress on **Cardiology and Heart Diseases**
November 5-6, 2018 Amsterdam, Netherlands

Chemical Engineering

5th World congress on **Chemical Engineering and Catalysis**
August 28-30, 2018 Paris, France

10th International Conference on **Oil, Gas and Petroleum**
October 22-24, 2018 Budapest, Hungary

8th World Congress on **Petro Chemistry and Chemical Engineering**
October 22-24, 2018 Budapest, Hungary

Chemistry

10th World Congress on **Chemistry Education**
June 21-22, 2018 Oslo, Norway

4th International Conference on **Polymer Chemistry**
June 25-27, 2018 Stockholm, Sweden

5th International Conference on **Organic and Inorganic Chemistry**
July 12-13, 2018 Paris, France

9th Global Chemistry Congress
July 23-24, 2018 Lisbon, Portugal

8th World Congress on **Spectroscopy and Analytical Techniques**
Augustust 15-17, 2018 Stockholm, Sweden

4th World Congress on **Pharmaceutical Chemistry**
August 20-22, 2018 Prague, Czech Republic

6th world Congress on **Physical Chemistry and Flow Chemistry**
August 28-30, 2018 Paris, France

19th World Congress on **Analytical Chemistry**
September 11-12, 2018 Stockholm, Sweden

8th World Congress on **Chromatography**
September 13-14, 2018 Prague, Czech Republic

World congress on **Polymer Science and Technology**
September 13-15, 2018 Prague , Czech Republic

9th World Congress on **Green Chemistry and Technology**
September 17-19, 2018 Amsterdam, Netherlands

11th International Conference on **Medicinal Chemistry and Drug Discovery**
November 26-28, 2018 Athens, Greece

Cosmetology

8th International Conference on **Cosmetology and Trichology**
November 26-28, 2018 Athens, Greece

Dental

22nd International Conference Dental Education *April 09-11, 21018 Amsterdam, Netherlands*

23rd Euro Congress on **Dental Health & Practice Management**
June 21-22, 2018 Oslo , Norway

27th Euro Dentistry Congress
October 25-27, 2018 Prague, Czech Republic

Dermatology

17th European Dermatology Congress
March 01-03, 2018 Paris, France

18th Global Dermatology Congress
October 25-26, 2018 Budapest , Hungary

Diabetes & Endocrinology

17th Global Diabetes Conference & Nursing Care
March 08-09, 2018 Paris, France

3rd International Conference on **Endocrinology, Metabolic Syndrome & Clinical Management**
June 28-29, 2018 Amsterdam, Netherlands

World Congress on **Endocrinology**
September14-15, 2018 Prague , Czech Republic

Euro Diabetes Congress & Expo
September14-15, 2018 Prague, Czech Republic

Engineering

International Conference on **Civil and Structural Engineering**
June 21-22, 2018 Paris, France

Computer Science and Engineering
June 21-22, 2018 Oslo , Norway

International Conference on **Artificial Intelligence, Robotics & IoT**
Augustust 21-22, 2018 Paris, France

Euro Building Materials & Construction Technologies Conference
August 28-29, 2018 Amsterdam, Netherlands

International Conference on **Satellite & Telecommunication**
September 11-12, 2018 Stockholm, Sweden

Environmental Sciences

10th World Congress and Expo on **Recycling**
July 26-27, 2018 Amsterdam, Netherlands

5th International Conference on **Pollution Control**
Augustust 03-04, 2018 Oslo, Norway

Global summit on **Climate Change**
November 19-20, 2018 Lisbon , Portugal

Gastro

14th World Congress on **Gastroenterology and Hepatology**
June 25-27, 2018 Stockholm, Sweden

Genetics

12th Annual Conference on **Stem Cell and Regenerative Medicine**
June 04-06, 2018 Prague , Czech Republic

13th International Conference on **Tissue Engineering and Regenerative Medicine***July 12-13, 2018 Paris, France*

8th International Conference and Exhibition on **Cell & Gene Therapy**
Augustust 21-22, 2018 Paris, France

Civil Engineering 2018

22nd Global Biotechnology Congress
September 10-11, 2018 Stockholm, Sweden

15th World Congress on **Structural Biology**
November 19-20, 2018 Lisbon, Portugal

Gynecology

International Conference on **Gynecology**
October 25-27, 2018 Prague, Czech Republic

Healthcare

3rd World Congress on **Health Economics & Policy**
April 12-13, 2018 Amsterdam, Netherlands

World Congress & Expo on **Healthcare IT**
Augustust 21-22, 2018 Paris, France

World Congress on **Healthcare and Hospital Management**
October 25-26, 2018 Budapest , Hungary

4th Annual congress on **Midwifery and Women's Health**
December 03-04, 2018 Lisbon, Portugal

European Conference on **Epidemiology & public Health**
December 03-04, 2018 Lisbon , Portugal

Hematology

Global Hematology Congress
September 20-21, 2018 Oslo, Norway

Immunology

5th International Conference on **Parasitology**
July 12-13, 2018 Paris, France

Global meet on **Immunology and Molecular Biology**
September 20-21, 2018 Oslo, Norway

Infectious Disease

Annual Meeting on **Infectious Disease**
August 20-21, 2018 Prague, Czech Republic

Global HIV/AIDS Congress
August 20-21, 2018 Prague, Czech Republic

6th International Conference on **Infectious Diseases**
October 18-19, 2018 Amsterdam, Netherlands

7th International Conference on **Bacteriology and Infectious Diseases**
November 5-7, 2018 Amsterdam, Netherlands

Material Science

4th Annual Conference on **Biomaterials**
June 04-06, 2018 Prague , Czech Republic

23rd International Conference on **Advanced Materials**
June 21-22, 2018 Oslo, Norway

24th World Congress on **Nanomaterials and Nanotechnology**
July 17-18, 2018 Prague, Czech Republic

20th International Conferene and Exhibition on **Materials Science and Engineering**
September 10-11, 2018 Stockholm, Sweden

25th International Conference on **Advanced Materials and Technology**
September 20-22, 2018 Oslo, Norway

26th World Congress on **Materials Science and Technology**
December 05-06, 2018 Lisbon , Portugal

Medical

World Congress on **Neonatal Research and Diagnosis**
May 21-23, 2018 Oslo, Norway

International Conference on **Restorative & Alternative Medicine**
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International congress on
Traditional and Natural Medicines
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Microbiology

11th World Microbiology & Immunology Congress
June 28-29, 2018 Amsterdam, Netherlands

12th World Congress on
Biotechnology and Microbiology Conference
June 28-29, 2018 Amsterdam, Netherlands

Nanotechnology

European Annual Congress on
Nanotechnology & Nanomaterials
September 10-11, 2018 Stockholm, Sweden

International Conference on
Nanotechnology & Material Science
October 25-26, 2018 Budapest, Hungary

Nephrology

Annual Nephrology Congress
November 27-29, 2018 Athens, Greece

Neurology

Annual Congress on **Neurology & Neuroscience**
September 20-21, 2018 Prague, Czech Republic

7th International Conference on
Neurological Disorders & Stroke
September 20-21, 2018 Prague, Czech Republic

International Conference on
Neurology and Mental Disorders
November 5-7, 2018 Amsterdam, Netherlands

Nursing

18th World Congress on
Clinical Nursing and Practice
June 11-13, 2018 Athens , Greece

4th International Conference on
Nursing and MidWifery
June 11-13, 2018 Athens, Greece

25th Global Nursing & Health Care Conference
Augustust 21-23, 2018 Paris, France

Annual Nursing Pharmacology
September 14-15, 2018 Prague, Czech Republic

Annual Meeting on **Nursing Education**
September 14-15, 2018 Prague , Czech Republic

29th International Conference on
Neonatal and Pediatric Nursing
September 20-22, 2018 Oslo, Norway

30th World Congress on **Pediatric Nursing**
October 15-17, 2018 Paris, France

Annual Nursing and Healthcare Meeting
December 03-04, 2018 Lisbon , Portugal

Annual Congress on
Advanced Nursing and Research
December 05-06, 2018 Lisbon , Portugal

Nutrition

19th International Congress on
Nutrition & Health
April 12-14, 2018 Amsterdam, Netherlands

7th International Conference and Exhibition on **Probiotics, Functional and Baby Foods**
July 17-18, 2018 Prague, Czech Republic

World Congress on
Nutraceuticals and Natural Medicine
July 17-18, 2018 Prague, Czech Republic

Annual Congress on **Nutrition & Healthcare**
October 18-20, 2018 Paris, France

Obesity

International Conference on
Obesity Diet and Nutrition
May 29-30, 2018 Prague, Czech Republic

Annual congress on
Eating Disorders, Obesity and Nutrition
July 26-27, 2018 Amsterdam, Netherlands

World Obesity Meet
October 25-26, 2018 Budapest , Hungary

Oncology

14th International Conference on
Leukemia and Hematologic Oncology
June 20-21, 2018 Paris, France

International Congress on
Cancer Diagnosis and Treatment
Augustust 02-03, 2018 Oslo, Norway

Euro Global Biomarkers Summit
Augustust 02-03, 2018 Oslo, Norway

Euro Breast Cancer Summit
October 18-19, 2018 Amsterdam, Netherlands

Euro Oncology Summit
October 18-19, 2018 Amsterdam, Netherlands

Ophthalmology

European Conference on
Optometry and Vision Science
September 11-12, 2018 Stockholm, Sweden

World Ophthalmology Congress
September 17-18, 2018 Amsterdam, Netherlands

Pathology

15th European Pathology Congress
June 20-21, 2018 Paris, France

9th International Conference on
Clinical & Medical Case Reports
September 17-18, 2018 Amsterdam, Netherlands

Pediatric

World Neonatology Meeting
Jun 04-05, 2018 Prague, Czech Republic

25th European Pediatrics Congress
October 22-23, 2018 Amsterdam, Netherlands

World congress on **Clinical Pediatrics**
November 12-13, 2018 Lisbon , Portugal

3rd International Conference on
Pediatric Neurology
November 12-13, 2018 Lisbon, Portugal

Pharmaceutical Sciences

14th International Conference and Exhibition on **Nanomedicine and Pharmaceutical Nanotechnology**
April 09-11, 21018Amsterdam, Netherlands

14th World Congress on
Pharmacology and Drug Safety
Augustust 15-17, 2018 Stockholm, Sweden

10th World Congress on **Neuropharmacology**
August 28-30, 2018 Paris, France

5th European Biopharma Congress
September 18-19, 2019 Amsterdam, Netherlands

17th Annual Congress on **Pharmaceutics & Drug Delivery Systems**
September 20-22, 2018 Prague , Czech Republic

16th World Euro Pharma Congress
October 18-20, 2018 Amsterdam, Netherlands

10th World congress and Expo on
Separation Techniques
October 22-24, 2018 Budapest , Hungary

12th World Congress on
Biosimilars and Biologics
November 19-21, 2018 Lisbon, Portugal

Physics

5th world Congress on **Physics**
May 29-31, 2018 Prague, Czech Republic

Psychology & Psychiatry

7th International Conference on
Brain and Neurological Disorders
April 10-12, 2018 Amsterdam, Netherlands

27th International Conference on
Psychiatry & Psychology Health
June 18-19, 2018 Paris, France

3rd International Congress on
Addictive Behavior & Dual Diagnosis
August 16-17, 2018 Stockholm, Sweden

Annual congress on **Mental health**
July 12-13, 2018 Paris, France

3rd Annual Congress on
Forensic Psychology & Criminology
August 16-17, 2018 Stockholm, Sweden

World Congress Dementia and Rehabilitation *November 27-29, 2018 Athens, Greece*

Pulmonology

Annual Congress on
Pulmonology & Respiratory Medicine
November 19-20, 2018 Lisbon , Portugal

Radiology & Imaging

12th International Conference on
Abdominal Imaging and Endoscopy
June 28-29, 2018 Amsterdam, Netherlands

Annual Congress on
Pulmonology Respiratory Medicine
November 19-20, 2018 Lisbon , Portugal

Surgery

10th World congress on **Surgery**
July 23-24, 2018 Lisbon, Portugal

3rd World Congress on **Cardiothoracic Surgery**
September 20-21, 2018 Oslo, Norway

Toxicology

17th Global Toxicology and Risk Assessment Conference
October 22-24, 2018 Budapest, Hungary

Vaccines

International Conference on
Vaccine and Immunology
August 27-29, 2018 Amsterdam, Netherlands



International Conference on

CIVIL & STRUCTURAL ENGINEERING

June 21-22, 2018 Paris, France

Keynote Forum

DAY 1

Gouranga Banik, J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

International Conference on

CIVIL & STRUCTURAL ENGINEERING

June 21-22, 2018 Paris, France



Gouranga Banik

Oklahoma State University, USA

Causes and Prevention of Fall Accidents in the US Construction Industry

Construction, one of the largest industries in the United States, is also one of the most dangerous. Despite a decline in overall construction injuries thanks to continual prevention and intervention efforts, workers in the industry are still at high risk. In 2016, the construction industry experienced 991 fatal injuries, more than any other industry in the United States. Because of the nature of the work, occupational hazards and exposures in construction are quite different from those in other industries. For example, injuries from falls claim more than one-third of fatalities in construction, accounting for about 40 percent of all work-related fatal falls in the United States. As a result, detailed information on falls to a lower level is critical for preventing injuries in construction.

Learning from fall failures can be an important tool to learn why the accidents happened, and what can be done to prevent it. This paper examined the failures in fall by analyzing all fatal falls which are happened between 2005-2016 from the Fatality Assessment and Control Evaluation (FACE) program. Results revealed that the primary source is the object or surface from which the worker fell. From 2005 to 2016, the most common sources in these cases were ladders and roofs. The most common height of a fall was over 30 feet. This research also suggested that the less effectiveness of current safety training program may significantly contribute to worker's unsafe behaviors and fall fatality occurrences.

Biography

Gouranga Banik, Ph.D., P.E., PMP., F.ASCE, is currently serving as professor of construction engineering and management for the school of civil and environmental engineering at Oklahoma State University. Prior to this, Dr. Banik served as division head at Oklahoma State University, and departmental chair and professor for civil and architectural engineering at Tennessee State University. He is a registered professional engineer (PE) in the state of Wisconsin and a project management professional (PMP). Dr. Banik has consulted for federal and several state agencies, and major national and international construction and design companies including the World Bank.

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Notes:



International Conference on

CIVIL & STRUCTURAL ENGINEERING

June 21-22, 2018 Paris, France

Scientific Tracks & Abstracts

DAY 1

Session:

Day 1 June 21, 2018

Structural Analysis | Structural Designing | Footing | Geology In Civil Engineering | Structural Geology | Modular Constructions | Pavement Design | Cracks In Building | Steel Structures | Reinforced Concrete Structure | Environmental Engineering | Steel Construction | Design Of Special Structures | Tunnel Construction | Water Resource Engineering |

Session Introduction

Title: **Analytical and Finite element analyses of Thin-Walled Beams vibration**
Jrad Wassim, Université de Lorraine, France

Title: **A novel nonlinear modeling technique for Beam-Column Joints Reinforced by Plain Bars**
Mahdi Adibi, University of Bojnord, Iran

Title: **Analysis of RC beam with a hole using artificial neural network**
Hamad Alduaij, Kuwait institute for scientific research, Kuwait

Title: **Effect of silica fume and diopside microdispersed additives on the strength of concrete**
Valery Rudyak, Novosibirsk State University of Architecture and Civil Engineering, Russia

Title: **Performance of Reinforced Concrete wall with opening using analytical model**
Youssef Ibrahim, Arab Academy for Science, Technology & Maritime Transport, Africa

Title: **The effect of beam-column connections and soil on the seismic behavior of intermediate steel moment-resisting frames**
Hamed Rahman Shokrgozar, University of Mohaghegh Ardabili, Iran

Title: **The practical application of chinese traditional geomantic omen theory in BuildingInformation Modelling**
Zhang YiNing, The University of Nottingham Ningbo China, China

Jrad Wassim, J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

Analytical and Finite element analyses of Thin-Walled Beams vibration

Jrad Wassim
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We investigate the vibration of thin-walled beams with arbitrary open cross section shape. Based on beam element model accounting for warping and flexural torsional coupling, analytical solutions are derived for higher free vibration modes in bending, torsion and flexural-torsional coupled modes. In the model, the effects of rotational inertial kinematic terms are included. The finite element approach of the model is also investigated. For this aim, 3D beams with 7 seven degree of freedom per node are adopted. The model is validated by comparison to benchmark solutions found in literature where numerical and recent experimental results are considered. Compared to classical models where rotational terms are neglected, more accurate results are obtained with the present model.

Biography

Jrad Wassim, second year PhD student from Lorraine University. He is a member in researsh team MMSV-Laboratoire LEM3-Technopole-Metz, a premier research laboratory. He has a Master's degree in conservation and consolidation of historical structures and Master degree in civil engineering. He has experience in consultancy and design of many projects: residential buildings, schools, and warehouses.

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Mahdi Adibi, J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

A novel nonlinear modeling technique for Beam-Column Joints Reinforced by Plain Bars

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Vulnerability of concrete beam-column joints reinforced by plain bars is one of the most usual damage modes during earthquakes between a large number of old buildings before the mid-1970s, that caused by either diagonal shear cracks or intersectional cracks. Diagonal cracks at the panel zone of the joint caused by shear resistance of the joint and intersectional crack caused by bar slippage. In this study, a relatively simple and efficient nonlinear model is proposed to simulate pre- and post-elastic behavior of the joints which fail under bar slippage mode. In this model, beam and column components are represented by linear elastic elements, dimensions of the joint panel are defined by rigid elements, and effect of slip is taken into account by a nonlinear rotational spring at the end of beam. The proposed method is validated by experimental results for both internal and external joints

Biography

Mahdi Adibi has completed his PhD from University of Tehran in Iran. He is the Head of the department of Structural Engineering at University of Bojnord, a premier research organization.

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Hamad Alduaij, J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

Analysis of RC beam with a hole using artificial neural network

Hamad Alduaij, Jafarali Parol and Jamal al-Qazweeni
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Reinforced Concrete (RC) is the most widely used material in beams and columns of buildings, bridges and other infrastructures. Behavior of RC beam is well examined and explained by several laboratory experiments. RC material is highly nonlinear and mathematically complex to model. Finite element analysis is employed by engineers and researchers to predict the nonlinear behavior of RC columns and beams along with laboratory experiments. However, the method, in general, computationally expensive for RC beams and columns due to convergence and other issues. Artificial intelligence techniques such as neural networks can be used to obtain a relatively simple mathematical model describing the behavior of RC beam. RC beam with a vertical hole is not a well examined subject and it is even more complex to predict using finite element model. To carry out laboratory experiments with various position of the hole along the length and width of the beam and size of the hole is a laborious and expensive task. In the present study, the characteristics of a RC beam with a vertical hole is examined through the use of Artificial Neural Networks (ANN). In this study, limited number of laboratory experimental and finite element results are used to predict the behavior of RC beam with a vertical hole using ANN. Effect of hole with various positions along the length and width of the beam and due to change of size of the hole, the analysis was created with a hidden layer of 15 neurons using Bayesian regularization backpropagation algorithm. Bayesian regularization minimizes a linear combination of squared errors and weights. It also modifies the linear combination so that at the end of training the resulting network has good generalization qualities. The network achieved almost 1 r-squared value for both training and testing set. Figure 1 depicts neural network model of the maximum force as the hole moves through the x axis. From the network simulation it was observed that, beam hole near the mid span reduces the load carrying capacity by 20%. The optimal location of the vertical hole in between the end support and mid span there is a drastic reduction in load carrying capacity and it was observed if the edge distance between circumference of the hole and beam edge is less than 30 mm.

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Notes:

Valery Rudyak et al., J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

Effect of silica fume and diopside microdispersed additives on the strength of concrete

Valery Rudyak and **Liliya Il'ina**
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The high mechanical strength of the concrete is the most important property of its application. It is depended on many well studied factors (the water–cement ratio, porosity etc.). It is known that the strength of concrete increases with the addition of microdispersed additives of different chemical composition. However there are very contradictory experimental data about mass fraction of the microdispersed additives to strengthen concrete. In our opinion the possible reason of such discrepancy of the experimental data may be the different size of microdispersed additives used. The aim of this paper is to experimentally study the effect of the particle size and mass fraction of the different microdispersed additives on the strength of the concrete. The results of mechanical strength tests of fine-grained concrete from the dispersity and the mass fraction of additives, reactive silica fume and inert diopside are presented. It has been shown that the optimum amount providing greater reinforcement samples decreased with decrease in the dispersity of inert mineral additive. It was found that the optimal ratio of silica fume and the diopside to maximize the strength properties of the material. In this case the strength characteristics of the fine-grained concrete has the strength characteristics of 2.5 times higher than the control sample.

Biography

Valery Rudyak is a Honoured Science Worker of Russian Federation. He is Head of Theoretical Mechanics Department of the Novosibirsk State University of Architecture and Civil Engineering; simultaneously he is main Research Scientist of the Siberian Federal University. He is author of 6 monographs and more than 200 papers in reputed journals and he has been serving as an Editorial Board Member of four journals.

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Notes:

Youssef Ibrahim et al., J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

Performance of Reinforced Concrete wall with opening using analytical model

Youssef Ibrahim, Alaa Morsy and **Nabil Alashkar**
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Earthquake is one of the most catastrophic events, which makes enormous harm to properties and human lives. As a piece of a safe building configuration, R.C walls are given in structures to decrease horizontal displacements under seismic load. Shear walls are additionally used to oppose the horizontal loads that might be incited by the impact of wind. R.C walls in residential buildings might have openings that are required for windows in outside walls or for doors in inside walls or different states of openings due to architectural purposes. The size, position and area of openings may fluctuate from an engineering perspective. Shear walls can encounter harm around corners of entryways and windows because of advancement of stress concentration under the impact of vertical or horizontal loads. The openings caused a diminish in shear wall capacity. It might have an unfavorable impact on the stiffness of R.C wall and on the seismic reaction of structures. By using ANSYS, finite element modeling approach has been conducted to study the effect of opening shape, size and position in R.C wall with different thicknesses under axial and lateral static loads. The proposed F.E approach has been verified with experimental programme conducted by the researchers and validated by their variables. A very good correlation has been observed between the model and experimental results including load capacity, failure mode and lateral displacement. A parametric study is applied to investigate the effect of opening size, shape, position on different R.C wall thicknesses.

Biography

Youssef Ibrahim has completed his Bachelor's degree from Alexandria University. He is a Post-graduate student at Department of Building and Construction, College of Engineering and Techonolgy, The Arab Academy for Science, Technology & Maritime Transport in Egypt. He works as a Technical Office Engineer in Petrojet in Egypt. His research interests include reinforced concrete structures.

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Notes:

Hamed Rahman Shokrgozar et al., J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

The effect of beam-column connections and soil on the seismic behavior of intermediate steel moment-resisting frames

Hamed Rahman Shokrgozar and **Maryam Zare Aghblagh**
University of Mohaghegh Ardabili, Iran

Soil structure interaction expresses the difference of structural responses between the actual and theoretical rigid based conditions and depends on the stiffness, mass and damping of soil and structure systems. Nowadays, moment resisting frame is one of the most common structural systems. Ductility of these frames is due to the flexural yielding of beams, columns and the shear yielding of panel zone of columns. The influence of modeling beam column connections and soil-foundation-structure interaction on the seismic responses of 10-story intermediate steel moment resisting frames that located on the two various soil types (II and IV) is studied in this paper. Prequalified welded flange plate connections (WFP) are used in these buildings. For this purpose, several 2D finite element models are developed using OpenSees software by assuming three conditions such as models with considering soil and beam-column connection effects, models with considering soil and without connections, models with fixed based and without considering connections. The maximum responses of the studied frames are calculated and compared with nonlinear time history dynamic analyses under seven far-fault earthquakes. The numerical results show that in the models located on soil type IV, considered connections, SFSI or just soil, the maximum lateral displacement and maximum inter story drift are more, compared to models without connections and with fixed based conditions. In the models rested on soil type II, some of these parameters are reduced. The maximum base shear of structures is reduced in the mentioned models.

Biography

Hamed Rahman Shokrgozar has completed his PhD from K N Toosi University of Technology. He is the Assistant Professor of the Department of Civil Engineering in University of Mohaghegh Ardabili. He has published more than 10 papers in reputed journals and more than 30 papers in conferences. His area of research interest is Structural Engineering.

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Zhang YiNing, J Steel Struct Constr 2018, Volume 4
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The practical application of Chinese traditional geomantic omen theory in BuildingInformation Modelling

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The practical application of Chinese traditional geomantic omen theory in Building Information Modelling: My topic is Chinese Traditional geomantic omen's new digital uses in Building Information Modelling. Chinese Traditional geomantic omen is a subject which related on Chinese geography from ancient times. The main theme about my article will base on Development of design and modelling methods. The primary purpose of this study paper was to establish a conception which Chinese traditional geomantic omens could be used in BIM. The object (aim) of this study (the present research) was to design a digital compass in BIM software and achieve rational distribution in AEC projects. In order to determine the feasibility of this kind of technology application□we carried out a pilot study about geomantic omen's history in China also market in the world. To evaluate the importance to contemporary building fields□the construction geomancy study enjoys the lofty status in the Chinese history of architecture. 0To describe the origin textbook of Geomantic omen□which called “The Books Of Changes (I Ching) ” □the ancient book is a study of change in human life. The belief is that understanding the pattern and cycle of change will prepare the person for future events and help with making right decisions. This paper will describe a new creative attempt which combine BIM technology and Chinese traditional geomantic omen□which similar to astrology in western. In addition□in this paper□I will explain what is Chinese Traditional geomantic omen and prove geomantic omen's scientificty in academic research.

Biography

Zhang YiNing has finished her undergraduate course of Business Administration in City University Of Macau. Now she is a PGR student major in MRes Sustainable Building Technology in The University of Nottingham Ningbo China.

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International Conference on

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Posters

Seung-Hun, Sung, J Steel Struct Constr 2018, Volume 4
DOI: 10.4172/2472-0437-C1-007

Feasibility study on a cumulative damage assessment method for a reinforced concrete slab under blast loads

Seung-Hun, Sung
Agency for Defense Development, South Korea

This study proposes a novel cumulative damage assessment method for a reinforced concrete (RC) slab using an equivalent single degree of freedom (SDOF) model. The proposed method utilizes a structural permanent deformation evaluted from the equivalent SDOF model and its newly constructed resistance function due to initial damage. In order to confirm an applicability and a limitation of the proposed method, a series of numerical simulations and experiments were carreid out. Three consecutive explosions were numerically and experimentally conducted at same detonation points with the same explosive weight for the one-way RC slab and for the two-way RC slab. As a result of comparison between numerical simulaions and experiments, it is sufficiently applicable to assess cumulative damages for a RC slab under blast loads, although the method has some limitation.

Biography

Seung-Hun, Sung has completed his PhD from KAIST. He is the Senior Researcher of the Agency for Defense Develeopment, South Korea. He has published more than 10 papers in reputed journals.

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Civil Engineering 2018



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Accepted Abstracts

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Deformation and Stresses generated on a Bolted Flange Joint Assembly and Grayloc® Clamp Connector at Elevated Temperatures

Mustafa Mogri
Lecturer at DHA Suffa University, Karachi, Pakistan

Finite element analyses were performed to investigate the leakage and structural integrity of the bolted flange joint assembly (BFJA) and Grayloc® clamp connector (GCC), when each assembly was subjected to the external loads of bolt preload, internal pressure and thermal loadings. The thermal loadings were of both spatially-uniform and spatially-nonuniform temperatures on the assemblies. The initial bolt preload applied on the BFJA and the GCC was 60,000 N and 6,000 N, respectively. The internal pressure for both assemblies was 27 MPa. The BFJA was found to have satisfactory leakage and structural performance for the thermal loadings expected on the low-temperature (260°C) side of the Carleton Supercritical Water (CSCW) loop. The GCC was found to have satisfactory leakage and structural performance for the thermal loadings expected on the high-temperature (600°C) side of the CSCW loop. The leakage integrity of the GCC was found to remain intact for a temperature difference of 15°C between the inner and outer surfaces of the flange. This was not the case for a temperature difference of 100°C.

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Bamboo - The Wonder Material For Sustainable Built Environment

Prof.Dr.S.Arunachalam[1]
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Guidance has been provided in NBC 2016 Part 11 'Approach to sustainability'. for making buildings and built environment energy efficient and environmentally compatible. In article 9.2.1.8 it is stated that Bamboo can contribute to sustainable development. Further it is stated that " as a building material, it had been abundantly used in the country for traditional huts and hermitages for long besides as scaffolds. With the understanding of its physical and mechanical properties, it has been recognized as an engineering material with scope of buildings and structures to sustain among others the lateral forces including earthquake forces,etc. Bamboo can be used as structural material in buildings. Bamboo structure shall be designed in accordance with Part6 Structural design, Section 3B Bamboo.Raw bamboo has been used as a structural material for centuries. Traditionally, the bamboo pole is used intact and tethered to adjacent poles to create a structure. The most significant advantage bamboo has over timber is found in its structural properties. All allowable stresses except for compression parallel to the grain are greater for raw bamboo than those of most wood species. This information indicates that raw bamboo poles are a good material for beams, but not necessarily for columns. If bamboo is laminated to form structural components, the material properties become significantly better than those of laminated wood. Laminated bamboo(LBL) is ten times stringer in tension and six times stronger in compression and flexure than laminated timber(LVL).and yet, laminated bamboo is only recently becoming a material of interest to designers. Other advantages of LBL are that it has 15% less embodied energy in processing than wood and is 20% more stable than wood in moisture and temperature changes. The code is silent on structural design using Laminated Bamboo structural components. Modular design, Pre frabricated unit and assembled at site , afordable housing unit with ECO aspects is a successful venture to be adopted in India.The building code shall be strengthned with sufficient design data and construction techniques and skill guidens.

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Discharge modelling in smooth and rough compound channels using genetic programming

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[2]Biju Patnaik University of Technology, India

Discharge results observed from the experimental channels for smooth and rough surfaces, along with data from a compound river channel are used in the Genetic Programming. Model equations are derived for estimation of discharge in compound channel for various types of channel surfaces. Five hydraulic parameters are used for developing the model equations. Models derived are tested and compared with other soft computing techniques. Evaluations of all the approaches are carried out using five performance parameters. Finally, the effect of parameters responsible for the flow behaviour is shown through sensitivity analysis. GP is found to give the most promising results. This work aims to benefit the researchers engaged in modelling of discharge using machine learning techniques.

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Ranking the factors that influence the construction project success: Jordanian perspective

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Project success is what must be done for the project to be acceptable to the client, stakeholders and end-users who will be affected by the project. The study of project success and the critical success factors (CSFs) are the means adopted to improve the effectiveness of the project. This research is conducted to make an attempt to identify which variables influence the success of project implementation. This study has selected, through an extensive literature review and interviews, 83 factors were categorized in to 7 groups that the questionnaire respondents were asked to score. The responses from 66 professionals with an average of 15 years of experience in different types of construction projects in Jordan were collected and analyzed using SPSS and most important factors for various success criteria are presented depending on the relative importance index to rank the categories. The research revealed the significant group of factors which are: client related factors, contractor's related factors, project manager (PM) related factors, and project management related factors. In addition, the top ten sub factors are: assertion of the client towards short time of the project, availability of skilled labor, assertion of the client towards high level of the quality, capability of the client in taking risk, previous experience of the PM in similar projects, previous experience of the contractor in similar projects, decision making by the client/ the client's representative at the right time, assertion of client towards low cost of project, experience in project management in previous projects, and flow of the information among parties. The results would be helpful to construction project professionals in taking proactive measures for successful completion of construction projects in Jordan

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The effect of beam-column connections and soil on the seismic behavior of intermediate steel moment-resisting frames

Hamed Rahman Shokrgozar and Maryam Zare Aghblagh
University of Mohaghegh Ardabili, Iran

Soil structure interaction expresses the difference of structural responses between the actual and theoretical rigid based conditions and depends on the stiffness, mass and damping of soil and structure systems. Nowadays, moment resisting frame is one of the most common structural systems. Ductility of these frames is due to the flexural yielding of beams, columns and the shear yielding of panel zone of columns. The influence of modeling beam column connections and soil-foundation-structure interaction on the seismic responses of 10-story intermediate steel moment resisting frames that located on the two various soil types (II and IV) is studied in this paper. Prequalified welded flange plate connections (WFP) are used in these buildings. For this purpose, several 2D finite element models are developed using OpenSees software by assuming three conditions such as models with considering soil and beam-column connection effects, models with considering soil and without connections, models with fixed based and without considering connections. The maximum responses of the studied frames are calculated and compared with nonlinear time history dynamic analyses under seven far-fault earthquakes. The numerical results show that in the models located on soil type IV, considered connections, SFSI or just soil, the maximum lateral displacement and maximum inter story drift are more, compared to models without connections and with fixed based conditions. In the models rested on soil type II, some of these parameters are reduced. The maximum base shear of structures is reduced in the mentioned models.

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Evaulation of setting time of mortar cured various environmental conditions using electrical resistivity measurement

Hong Jae Yim and Hanju Lee
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The development of various non-destructive measurements involves study on the microstructure evolution of cement based materials. Electrical resistivity measurement is a method that can monitor microstructure evolution due to change in resistivity through hydration products by filling pore space. This study aims to measure electrical resistivity in order to investigate an affect of various environmental conditions. A same mix-proportion mortar samples are prepared to study the effect of curing various temperatures and various humidty ranges. As a result, the rising time, which is the onset of an increase in electrical resistivity, is shortened and the increasing ratio of electrical resistivity is increased at higher curing temperature where various humidity ranges are not significant effec.

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Behavior of continuous or semi-continuous steel-concrete composite beams

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Composite steel-concrete beams have been widely used in the design and construction of modern steel framed buildings. A steel-concrete structural beam consists of a steel structure as the major and concrete as the minor part. It can be achieved by a steel beam overlaid by a concrete slab, in which the connection between steel and concrete is achieved by using mechanical shear connectors (shear studs). Several methods have been introduced to construct steel-concrete composite beams as shown in figure 1 (Uy, 2007). The idea of composite sections refers to the development of shear connectors in the 1950's which has made practicable to connect the concrete slabs to the steel beams (Johnson, 1994). Rae et al., 2011 conduct a study to examine the steel-concrete composite structural frames. Dubai (2007) finds experimentally that shear connectors can be used partially in composite structural beams. Indeed, the composite steel-concrete structural beams should be studied under diverse loading conditions. For analyzing the composite beams under combined bending and shear stress there are not adequate references; even codes and standards do not cover this issue adequately (Liang et al., 2004). There is no doubt that concrete is strong enough in compression and steel in tension. However, regarding the composite steel-concrete beams, in the sagging moment locations where the steel is subjected to compression and concrete subjected to tension, it needs to be investigated conservatively. Mainly, this research investigates the behavior of continuous or semi-continuous beam at the negative moment locations. The loading condition of combined bending and shear will be covered. This work tries to investigate the problem numerically (Finite Element Method) using the computer software ANSYS, and the results will be compared with existing experimental data. FE models will be constructed to investigate the reliability of the simulation of composite steel-concrete structural beams.

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Synthesis and shape memory study of amino acid-based polyurethane

Jiang Yuanzhang and HU Jinlian
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This paper deals with the hysteretic behavior, analysis and stability evaluation of thin-walled steel tubular columns subjected to cyclic multiaxial (axial and bidirectional lateral) loading. Steel columns are very useful in highway bridge pier construction as it offers flexible space requirement and provides speedy construction. Behavior of steel columns under earthquake-induced loads is rather complicated as earthquakes occur in an oblique direction. However, modern seismic design philosophies have been based on the behavior of structures under independent actions of uni-directional loading in orthogonal directions. In this study, inelastic cyclic behavior of steel columns subjected to axial force together with simultaneous bi-directional cyclic lateral loads is investigated using an advanced finite element analyses procedure. Several types of linear and non-linear idealized loading patterns are employed to check the strength and ductility. The effects of important structural parameters and loading history on the behavior of thin-walled steel tubular columns are examined using the proposed procedure. The obtained results from this study confirm the importance of considering behavior of steel columns under multiaxial loading. The multiaxial tests and finite element analysis results showed that the behavior of a tubular column under multiaxial loading becomes complex and exhibits a circular trajectory once local buckling occurs. The local buckling bulge in the multiaxial loading case tends to develop monotonically due to the circular trajectory. As a result, the residual deformation becomes larger. On the contrary, the unidirectional loading test and analysis are likely to underestimate the damage and the residual displacements caused by an earthquake. It is concluded that the effects of multiaxial loading should be considered in ductility evaluation and seismic resistance design of steel structures.

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Technology and innovation applied to the interstate 55 resurfacing project

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This $33 million patching and resurfacing project encompassed more than 100 lane-miles of interstate expressway and related construction work, including bridge deck and joint repairs, drainage improvements, vegetation management, fiber optic installation, and enhancements to the intelligent transportation system. Challenges faced during construction included a demanding completion date, restricted work hours, high traffic volumes, and staging construction through seven full interchanges, including the interstate-to-interstate interchange with I-355. Precise layout of longitudinal paving joints was critical to the proper placement of longitudinal joint sealant and inlaid pavement markings, further adding to the engineering complexity of the construction project. This presentation will demonstrate how innovative practices and applied technology, including mobile LiDAR data with calibrated imagery, GPS measurement and layout, 3D modeling, and high-definition video, were used to respond to challenges faced in the field to complete the project on time and under budget, with considerable improvements to quality and efficiency over traditional methods, while at the same time improving safety and minimizing inconvenience to the motoring public.

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Developing a neutral equilibrium device as dynamic virtual piers for an emergency relief bridge

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Every year, many natural disasters strike Taiwan, destroying bridges and disrupting traffic. To allow shipping of relief provisions and salvage, fabricated steel bridges are often used to construct emergency relief bridges. This kind of bridge must meet strength and functionality requirements. Strength depends on the materials used, while functionality depends on displacement control. These two requirements affect the section design of the bridge deck. In order to quickly build a light-weight bridge for emergency relief with displacement control, a neutral equilibrium mechanism is proposed and developed to control the deflection of an emergency relief bridge. A neutral equilibrium mechanism is a system with an internal control mechanism that can actively change the internal structure. Structural transformation causes the size variation of the action force to respond to continuous changes in bridge deflection. This mechanism can expand the effective span of the bridge, maintain its strength and functionality and increase the convenience of building and mobility. Experimental results reveal that a virtual pier at the center of a bridge with this proposed mechanism installed can control vertical deflection caused by vehicles carrying heavy loads. Test and analysis records also reveal that the vertical displacement at the center of a bridge with the neutral equilibrium mechanism installed is close to zero. The practicality of this neutral equilibrium mechanism has been verified by experiment.

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Behavior of lightweight reinforced concrete beams with openings in shear zones

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The construction of modern buildings requires many pipes and ducts to accommodate necessary services such as air conditioning, electricity, telephone, and computer network. Passing the required service through web openings in these beams is more desirable than passing it underneath the beams to keep of building aesthetics, also decrease the total height of building as well as decreases the total construction cost. Many researches were prepared to investigate the effect of openings on strength and stiffness of the reinforced concrete beams under different conditions to get suitable solutions to avoid or reduce these effects. Also, this research has been prepared to study the effect of a rectangular opening on the behavior of simply-supported lightweight, mixed and normal reinforced concrete beams with rectangular cross section using a nonlinear finite element program (ANSYS 17.2). For this purpose, a set of fifty one beams were analyzed to study the behavior of beam with opening under different conditions. All tested beams were simply supported beams with 4050 mm long, 3750 mm span, and cross section of (200 mm width and 500 mm total depth). Main parameters were: opening length ( ), opening height ( ), position of the opening along the beam axis (X), type of concrete, ultimate compressive strength ( ) and reinforcement arrangement around opening. The wide range for these parameters was taken as follows: W=(0.42 d, 0.65 d, 0.85 d and 1.30 d), where d is the beam effective depth; h=(0.28 d, 0.45 d, 0.56 d, and 0.67 d); X=(0.50 d, 0.75 d, 1.0 d, and 1.25 d); fcu = 21 MPa for Lightweight, 41 MPa for normal weight, and 26 MPa for mixed concrete. The reinforcement arrangement around the opening at top and bottom chord As1= (0.64 As, 0.36 As, 0.12 As, and without RFT) where As is the main longitudinal reinforcement of the beam. Spacing between main stirrups equal to 200 mm and spacing between stirrups around opening equal to 50 mm. Based on these conditions the study revealed that, provision of openings in lightweight reinforced concrete beams at shear zone changes the behavior of beam. The ratio of reduction in ultimate load increased from 8% to 23%, when the ratio of opening depth to beam effective depth (h⁄d) increased from (0.28 to 0.67). While it increased from 5% to 18%, when the opening length to beam effective depth ratio (W⁄d) increased from 0.42 to 1.30. The effect of opening location becomes more significant when opening is located close to support or at a distance equals to half beam depth. When the opening is located at a distance equal to half beam depth, the cracking load and the ultimate load were reduced by 16%, and 13%, respectively. Also, when the opening is located at a distance equals to beam depth, the cracking load and the ultimate loads were reduced by only 9%, and 7%, respectively. Increasing the ultimate compressive strength from 21 to 41 MPa decreases deflection and increases cracking and ultimate loads by 36%, 33%, and 37%, respectively. In addition to, increasing the reinforcement around the opening with certain arrangement helps to recover the loss in ultimate load of beam with openings.

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Utilisation of olive mill waste and coal ashes in normal concrete mixes

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The main objective of this research investigation is to study the effect of Olive Mill Waste (OMW) ash and Normal Coal (NC) ash on some engineering properties of normal strength concrete such as workability and compressive strength and hopefully select a better alternative for the concrete mix utilising such wastes. Thus, this will lead to reach a clear environment and reduce the overall cost of concrete mix by reducing the amount of cement content, as a result of replacing these wastes in the concrete mix. Overall, there are numerous benefits associated with the recycling of such waste products for the provision of a substitute concrete mix. Firstly, replacing a certain amount of cement with OMW and NC ash would reduce the overall cost of the concrete mix. Additionally, restoring theses wastes would decrease the levels of pollution which would otherwise increase the spread of pests and negatively impact the health of the population. As well as aiding the achievement of providing a cleaner environment, regenerating these wastes for the purpose of creating a concrete mix would eliminate the costs of their disposal. In order to achieve this goal, different percentages e.g. 10, 20, 30 and 40% of both OMW ash and NC ash were used as an additive and/or replacement in the production of normal concrete strength mixes to obtain a concrete grade of 40 MPa. Four sets of concrete mixes were cast to test the workability and the compressive strength based on the changes of the percentage of OMW and NC ashes by weight of cement. The slump test results ranged from 58 to 110 mm with the addition and/or replacement of OMW and NC ashes. Moreover, the compressive strength is decreased as the percentage of adding and/or replacement of OMW and NC ashes is increased.

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Performance enhancement with eco-friendly materials for design

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Currently, civil infra-structural designs need a new dimension different from conventional strength and reliability approaches in which they are less energy intensive and ecologically sustainable. This brought in the use of other materials and admixtures into concrete preparation and in this study, role of fly ash and nylon fibers for replacing cement and improving performance in terms of stiffness and flexibility is shown with testing and design emphasis. Beams with normal concrete, termed as CC, with fly ash termed as CCF and with fly ash and nylon fibers termed as CCFN are cast and tested for performance under service at ultimate and failure conditions and results clearly indicate improvements in rotational flexibility at ultimate and failure conditions. Compressive strength enhancements are shown in Figure (1), while load deflection characteristics of beams tested are shown in Figure (2). Using these as basis, section designs are made with less energy and more eco-friendly properties for the required ultimate or service load, resulting in 15 to 20% savings and carbon emission.

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