28–30 JULY 2019, JOHANNESBURG, SOUTH AFRICA

11th Construction Industry Development Board (cidb) Postgraduate Research Conference - First Announcement and Call for Papers

Positioning the construction industry in the fourth industrial revolution

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IMPORTANT DATES
Submission of Abstracts 30 November 2018
Notification of Acceptance of Abstracts 15 December 2018
Submission of Papers 30 March 2019
Notification of Decision on Papers 30 April 2019
Submission of Revised Papers 15 May 2019

ABSTRACT AND PAPER SUBMISSION INFORMATION
Please submit your abstract of not more than 300 words and include up to 5 keywords on-line via the google link:

SUBMIT ABSTRACT

GUIDELINES ABSTRACT TEMPLATE:

VIEW GUIDELINES

Abstracts will be sent to two referees. Only the authors of abstracts that pass this peer-review process will be invited to submit full papers. The deadline for the submission of abstracts is 23:59hrs GMT on Friday 30 November 2018.

GUIDELINES FULL PAPER TEMPLATE:

DOWNLOAD TEMPLATE

Full papers must not exceed 10 pages and should adhere to the cidb 2019 conference guidelines paper template, which is available for download at:

Each paper will be reviewed by two members of the scientific committee. If the paper is accepted its authors will be invited to present the paper at the conference. At least one of the authors must be able to attend the conference.

Full papers must be submitted along with a copyright form, signed by one author on behalf of all of the authors of the paper. The copyright form is available for download at:

DOWNLOAD COPYRIGHT FORM

PUBLICATION
Conference Proceedings will be published in a Springer Multi-volume Edited Book Submitted for indexing to: ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar, and Springerlink.

CONFERENCE AIM AND OBJECTIVES
The 11th Construction Industry Development Board (cidb) Postgraduate Research Conference aims to strengthen construction industry performance and transformation through a purposive engagement with contemporary research discourses. The broad objectives of the conference are to:

• Provide a forum for multi-disciplinary interaction between academics and practitioners;
• Provide an internationally recognised, and accredited conference;
• Disseminate ground-breaking and cutting-edge practices that will help position the construction industry in the 4IR; and
• Contribute to the built environment body of knowledge.
Constructing the Digital Divide: Leadership and Organisational Culture, Technology, Supply Chain, and the 4IR

The papers submitted for the conference might explore topics including the following:

- Augmented Reality
- Big data and the Construction industry
- Building Science and Building Enclosures
- Construction and the digital divide
- Construction industry development
- Construction Education
- Corporate Social Responsibility
- Digital and computing
- Energy Efficient Building Components
- Fire Damage and Protection
- Housing Policies
- Human resources and industry 4.0
- Indoor environmental quality and management
- Industry 4.0 for Construction Companies
- Innovative financing of sustainable infrastructure
- Land use planning and sustainable development
- Maintenance of buildings and construction projects
- Nanotechnology in the Construction industry
- Pollution in urban environment
- Organisational culture in Construction businesses
- Safety & health issues in infrastructure development
- Skills development and transfer
- Sustainable waste management in urban cities
- Transport management and the environment
- Value management and sustainable practices

Authors can propose and address any topics which fall within the stated aims and objectives of the conference. Papers on related topics aimed at increasing the performance of the construction industry, and creating an enabling environment for the 4IR uptake in the industry will be considered.

CONFERENCE FEE
Delegate R3 500 + VAT
Student Delegate R1 500 + VAT
Accompanying Person R500 + VAT

Accommodation is not included within the fee. Information on preferential rates provided by local hotels will be advertised on the conference website which is under construction.

ORGANISING COMMITTEE
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KEYNOTE SPEAKERS
- Professor Behrooi Khoshevis (University of Southern California, USA) Founder & CEO, Contour Crafting Corporation - ContourCrafting.com
- Professor Chimay Anumba (University of Florida, USA)
- Professor Miklos Hajdu (University of Budapest, Hungary)

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MAIN SPONSOR
Construction Industry Development Board

BACKGROUND
The fourth industrial revolution; although mostly attributed to the manufacturing industry, offers strategic approaches towards solving the problems associated with the delivery of construction projects.

The construction industry has a poor image in most countries from an ethical point of view. The issues include: corruption, malpractice and mismanagement on projects; predatory business practices; and poor responsibility towards the well-being of its own workforce and other stakeholders. With the advent of the 4IR and the resulting framework of Industry 4.0, the built environment sector now has the opportunity to leapfrog to more efficient production, successful business models and competitive value chains. This transformative framework is also called Construction 4.0. Construction 4.0 is modeled after the concept of Industry 4.0, and the idea stems from the convergence of trends and technologies that promise to entirely reshape the way that built environment assets are designed, constructed and operated. The Construction 4.0 framework uses Cyber-Physical Systems (CPS) as the core driver and ties it to the concept of Digital Ecosystem (DE) giving way to a new paradigm for the construction industry.

Studies on the application of the 4IR concept within the construction industry have continued to evolve in recent time. Most of these studies offer fancy captions and mouth-watering benefits of the adoption of the 4IR concepts. However, without the proper positioning of the construction industry in line with the goals of the 4IR, no significant transformation can be attained.

Thus, it is strategic at this point in time for stakeholders in the industry to critically evaluate the construction industry from its human resources, leadership and organisational culture, technology, supply chain, down to the external construction environment.

VENUE INFORMATION
Johannesburg, South Africa’s biggest city and capital of Gauteng province began as a 19th-century gold-mining settlement. It is the biggest major city in the country, and Johannesburg, also known as Jozi and Egoli, lives up to its latter name as the Place of Gold, not only because of the gold deposits found in the surrounding areas and the fact that it is where gold was first discovered, but also because it is a sparkling, golden city, with a lifestyle that has a wealth of different cultures, thriving businesses, places to play, shopaholics’ paradises. With over 9 million people roaming trendy suburbs with restaurant lined streets, flocking to exhibitions, concerts, gigs, theatres, casinos and more. Its sprawling Soweto township was once home to Nelson Mandela and Desmond Tutu. Mandela’s former residence is now the Mandela House museum. Other Soweto museums that recount the struggle to end segregation include the sombre Apartheid Museum and Constitution Hill, a former prison complex.

The conference sessions will take place at the University of Johannesburg (UJ), Bunting Road Campus. The conference dinner will be hosted by UJ School of Tourism after a pre-conference tour to the Apartheid Museum and Constitution Hill.