



The 4th Conference on Modern Construction Technologies
SUSTAINABLE DEVELOPMENT & BUILDING TECHNOLOGIES

Call for Articles

Introduction

Regarding the considerable growth of industry in developed countries as well as the vast demand of developing countries for acquisition and education of innovative technologies and science, developing the culture of construction industrialization, following up and implementation of the latest techniques and innovative technologies in construction industry, ACIT along with anticipated goals has been inspired to hold the 4th conference of construction innovative technologies following the 3rd conference in cooperation with all governmental and nongovernmental establishments on January 23 & 24, 2017 in Mashhad. The objectives and themes of the conference are defined as follows; thus, all thinkers, researchers and specialists active in construction are invited to present their special and scientific articles on the due themes and help us achieve the supreme objectives of the country.

Objectives

- Planning for educating the engineers at various levels and stages in order to utilize the innovative technologies and evolution in academic basics
- Attracting empirical and scientific centers, construction related experts and engineering establishments to run the investigation and research projects on maximum development and Implementation of construction innovative technologies
- Helping construction innovative technologies to develop and linking supply and demand
- Helping the construction producers approach to change from traditional to industrialized
- Investigating the damages of executive obstacles in utilizing construction innovative technologies
- Holding Engineering Promotional & Renewal Courses

Conference Themes (details)

Economy & Development

- Energy economy, investment layouts & Consumption Management
- Wastes in urban gas, water and power distribution networks
- Energy efficiency in governmental organizations, industrial and residential sectors
- Economy in building life cycle
- Investment challenges in energy & water in construction industry

Sustainable City

- Planning & designing the sustainable city
- Developing in-town textures
- Reviving inefficient urban textures
- High-rise construction, Dos & Don'ts



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- Internet & telecommunication networks in sustainable city
- Transportation & traffic management
- Location data management

Sustainable Building

- Planning & designing the sustainable city
- Green building global standards
- Sustainable buildings features
 - o Sustainable sites
 - o Water supplies optimum utilization
 - o Energy and atmosphere
 - o Resources and materials
 - o Building interior air quality
- Designing considerations in building life cycle
- Features of energy plus, zero energy and green building
- Building envelope science
- Engineering & architectural creativities in sustainable buildings

Energy Resources & Consumption Management

- New energy resources & the usage
 - o Global warming energy
 - o Solar energy
 - o Wind energy
 - o Domestic biogas units
- Renewable energies saving systems (ESS)
- Energy consumption management
- Maximum utilization of regional energy recourses

Smart Building

- Energy consumption management novel solutions
- Building management smart systems (BMS)
- Control, management & consumption monitoring in building and powerhouses
- Modern equipments to control and monitor the consumption
- Smart building financial evaluation
- Dynamic simulation methods in sustainable building designing
- Network designing and developing protocols for smart buildings
- Cyber-physical systems for buildings
- Smart meters (advanced measurement infrastructures) AMI
- Integrated smart buildings on micro-networks



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Mechanical Systems

- Energy consumption management novel solutions
- Mechanical systems implementation & designing considerations
- Pleasant ventilation
- Passive heating & cooling
- Heating pumps (GHP), power-heating synthetic systems
- Saving and reusing water in buildings
- Waste water management in buildings
- Recycling heat, water and other wasted energy resources in buildings
- Reducing energy consumption I mechanical installations

Electrical Systems

- Energy consumption management novel solutions
- Electrical systems implementation and designing considerations
- Efficient lighting and smart domestic appliances
- Technology & innovative equipments in electrical systems
- Generating power in building, small-scale generators, CHP, Micro CHP

Rules, Policies & Strategies

- Energy consumption management novel solutions
- Comparing the rules observing the sustainable development in Iran & the world
- Ecology global protocols & manifestos and their theoretical basis and the impacts
- Comparing the encouraging and supportive policies of utilizing technology in sustainable development (Iran & the world)
- Role of construction engineering organization, universities, governmental organizations and municipalities in sustainability
- The position of construction national regulations & criteria in improving energy consumption
- Investigating the damages of energy services providers
- Evaluating the consumption standard reformation law, setting goal for subsidies and setting energy tariffs
- ESCO & developing energy management in the buildings
- The connection between governmental organizations in sustainability

Articles Submission Timetable

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|----------------------------------------------------------|-------------------|
| - Abstract submission deadline | December 20, 2016 |
| - Abstract final evaluation result announcement | December 25, 2016 |
| - Article full text submission deadline | December 30, 2016 |
| - Article full text final evaluation result announcement | January 04, 2017 |



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Date: January 23 & 24, 2017

Venue: Saba Conference Hall, Mashhad, Iran

For further information please visit our website at www.mhud.ir/c4 or email us at c4@mhud.ir .

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توسعه ی پایدار و فن آوری های ساختمانی



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