

Conference Program

Sunday 20-6-2021

8:00 –9:00	Registration
9:00- 9:30	Welcome Coffee
9:30 –10:30	<p>Opening Ceremony</p> <p>Conf. Co-Chair: Prof. Manal Abdelhamid Conference Partner (NTRA): Eng. Hossam El Gamal Conf. Chairman: Prof. Khaled El-Zahaby Minister of Environment: Dr. Yasmine Fouad Minister of Communications and Information Technology: Dr. Amr Talaat Minister of Transport: Vice Admiral. Kamel Elwazir Minister of Housing , Utilities and Urban Communities: Prof. Assem El- Gazzar Prime Minister: Prof. Mostafa Madbouly</p>
10:30 –10:45	<p>Egypt–PV’s Solar System Opening at HBRC supported by IMC, UNDP, GEF Ms. Randa Aboul-Hosn, <i>United Nation Development Programme Resident Representative</i> Eng. Mohamed Abdelkarim, <i>Executive Director of Industrial Modernization Center, IMC</i></p>
10:45 –11:15	<p>Egypt Green Building Expo (EGBEX) Opening Prof. Tarek Attia <i>Director of Construction and Project Management Research Institute</i></p>
11:15–11:45	<p>Keynote Lectures (Main Hall)</p> <p>Keynote Lecture 1: Title : Smart Urban Policy for Egyptian Cities Assoc. Prof. Abdel-Khalek Ibrahim Elkady- Senior Assistant for the Minister of Housing Moderators: <i>Prof. Khaled Youssri (Vice chairman of HBRC)</i> <i>Prof. Mohamed Masoud (Vice chairman of HBRC)</i> <i>Prof. Mohamed Fathy (Head of Egyptian Code of Smart Cities, HBRC)</i></p>
11:45-12:15	<p>Huawei’s Vision in Smart City and Practice in North African and in Egypt , HUAWEI Technologies (Egypt) Co., Ltd(CEO), SIGNING PROTOCOL HBRC - HUAWEI -ECG</p>

12:15- 12:45	Coffee Break
	(Main Hall)
12:45–1:15	<p>General Lectures</p> <p>Lecture 1 Title : The Egyptian Code of Smart Cities Prof. Mohamed Fathy- Head of Egyptian Code of Smart Cities, HBRC Moderators: <i>Prof. Oaima Ahmed Salah ELdin (Former HBRC Chairman)</i> <i>Prof. Tarek Abo El- Soud (Regional and Urban Planning, Cairo University)</i> <i>Dr. Ramy A. Fathy, Executive Director, Industry 4.0 Planning, NTRA</i></p>
1:15–1:45	<p>Role of BIM in Smart Cities AUTODESK, (Eng. Mohamed El-Yamani, Technical Director, Kemet Corporation) - (Eng. Hazem Nabil, Country Manager, Autodesk)</p>
1:45–2:15	<p>Smart Cities Challenges, Madkour, (Dr. Mostafa Madkour, CEO)</p>
2:15–2:45	<p>Geo- enabling Smart Cities Using Esri Technology Esri, (Soheil Al Abd, Director International Business Development and MEA) - (Kholoud Saad , CEO Esri NeA)</p>
	(Main Hall)
2:45–3:15	<p>Keynote Lectures</p> <p>Keynote Lecture 2: Title : ITU Case Studies for Smart Cities Dr. Fadel Digham, National Projects Sector Head, NTRA. Moderators: <i>Prof. Tarek Attia (Director of Construction and Project Management Research Institute, HBRC)</i> <i>Prof. Osama Salem (Civil, Environmental and Infrastructure Engineering, George Mason University, USA)</i> <i>Prof. Adel ElSafty (North Florida University, USA)</i></p>
3:15–3:30	<p>The Toll Road to Smart City Design AL ESTESHAREYOON Zuhair Fayez Partnership, (Mr. Ahmed Eid Harb, Managing Director – Dr. Walid Sadek , Technical Director)</p>
3:30–4:30	Lunch

Monday 21-6-2021

8:30- 9:00	Welcome Coffee
9:00–9:30	General Lectures (Main Hall)
	<p><u>Lecture 1</u> Title: Filling the Gap Between Construction & Operation Eng. Ahmed Seror - ECG Communication & Security Department Manager Moderators: <i>Prof. Amr El Hefnawy (General Secretary, HBRC)</i> <i>Prof. Mohamed Fathy (Head of Egyptian Code of Smart Cities, HBRC)</i></p>
9:30 –10:00	General Lectures (Main Hall)
	<p><u>Lecture 2</u> Title : BIM Application in Construction Prof. Mostafa Baraka Moderators: <i>Prof. Tarek El Sokary (Raw Material Research Institute, HBRC)</i> <i>Prof. Emad El Beltagie (Construction and Project Management, Tanta University)</i> <i>Prof. Osama Hosny (Construction and Project Management, AUC University)</i></p>
10:00 -11:00	Workshop (Main Hall)
	<p><u>Smart Management of Construction & Demolition Wastes</u> Prof. Tarek Attia (Moderator) – Director of Construction and Project Management Research Institute, HBRC Dr. Hazem El Zanan – Executive Director of the National Solid Waste Management Program at the Ministry of Environment Prof. Manal Abdelhamid (Moderator) – Construction and Project Management Research Institute, HBRC Dr. Karim Morsy - Advisor to the Minister for CDW, Ministry of Environment Eng. Mohamed Ibrahim – Senior Advisor (GIS) , GIZ Coordinator: (Dr. Wafaa Arandah)</p>
10:00 -11:00	Workshop (Hall 1)
	<p><u>Smart Governance</u> Dr. Hussein Abo Bakr (Moderator) - Advisor to the chairman of G O P P .Ministry of Housing, Utilities and Urban Communities Dr. Essam Galal Shaat – General Secretary for Local Administration for Local Development Ministry Dr. Besheer Abdel Fattah - Faculty of Computers and Information, Cairo University Coordinator: (Eng. Reham Kamal)</p>

Paper Session (Main Hall)	
11:00– 12:00	<p>Session 1 : Facility Management & Building Information Modeling</p> <p>Moderators: <i>Prof. Ibrahim Mostafa Eldemery (Architecture Research Institute, HBRC)</i> <i>Prof. Hanan Anwar (Concrete Research Institute, HBRC)</i> <i>Assoc. Prof. Amr Mossalam (Construction & Project Management Research Institute, HBRC)</i></p> <p>Papers Codes: 11, 14, 15, 25</p> <p>Evaluation of Highway Projects Strategies to Reduce Project Delays Caused by Utility Relocation</p> <p>Talat F. Salama The Interaction of Building Information Modeling and Facility Management Through Sport Projects Life Cycle</p> <p>Hayam Mahmoud Omayer Implementation of Lean Management Using BIM in the Construction Process – A Case Study</p> <p>Ahmed Mohamed El-Deep Using BIM as an Approach for Reducing Construction Disputes Through Incorporating IPD Contracts</p> <p>Alaa M. Sayed</p> <p style="text-align: right;">Coordinator: (Dr. Nehal Tarek)</p>
Paper Session (Hall 1)	
11:00– 12:00	<p>Session 2 : Smart Mobility & Artificial Intelligence Models</p> <p>Coordinator:</p> <p>Moderators: <i>Prof. Azza Serry (Architecture Research Institute, HBRC)</i> <i>Prof. Ghada Diao (Material and Quality Control Research Institute, HBRC)</i> <i>Assoc. Prof. Ireny Beshara (Construction and Project Management Research Institute, HBRC)</i></p> <p>Papers Codes: 6, 26, 40, 41</p> <p>Adaptation of Smart Skin Design Strategy for Building Envelopes to Achieve Energy Efficiency</p> <p>Ayah Mohamed Ezzat Modelling Financial Risk Contribute to Construction Projects; Case Study of Expansion Food Industries</p> <p>Nouran Gaad Chronological Curve for Various Electrical Loads in a Suburb in the New Administrative Capital</p> <p>Malak M. Torky Smart Transportation for Sustainable Smart Cities in Egypt</p> <p>Reham M. Kamal Gouda</p> <p style="text-align: right;">Coordinator: (Eng. Salma Saber)</p>

	Paper Session	(Hall 2)
	Session 3 : Sustainable Design and Construction Techniques	
	Moderators:	
	<i>Prof. Magda Metwaly (Architecture Research Institute, HBRC)</i>	
	<i>Prof. Dina Sadek (Material and Quality Control Research Institute, HBRC)</i>	
	<i>Assoc. Prof. Sahar Elshahat (Construction and Project Management Research Institute, HBRC)</i>	
	Papers Codes:16, 30, 31, 47	
11:00– 12:00	Use of Renewable Energy Sources as a Tool for Achieving Economic Sustainability in Eco Village	
	Ahmed Samir Zaki	
	Sustainable Building Simulation Based Multi Objective Optimization Considering Environmental Impacts and Life Cycle Cost	
	Mohamed Gamal	
	Talent Management: A Novel Approach for Developing Sustainable Quality of Work Life in Egyptian Architectural Design Firms	
	Marwa N. Elwazer	
	Development of Systems for Evaluating the Sustainability of Buildings and Engineering Projects in the Field of Planning and Design a Comparative Study between the Green Pyramid Rating System GPRS and a proposed Environmental Ecosystems Rating System EERS	
	Ghada Mamdouh Fahmy	
	Coordinator: (Eng. Amr Hesham)	
12:00-12:30	Coffee Break	
	Keynote Lectures	(Main Hall)
	Keynote Lecture	
	Title : Digital Transformation in Construction: Trends and Applications	
12:30–1:00	Prof. Osama Moselhi - Professor and Director of the Centre for Innovation in Construction and Infrastructure Engineering and Management (CICIEM), Department of Building, Civil and Environmental Engineering, Concordia University	
	Moderators:	
	<i>Prof. Manal Abdelhamid (Construction and Project Management Research Institute, HBRC)</i>	
	<i>Prof. Adel El Samadoni (Construction and Project Management , Matareya University)</i>	
	<i>Prof. Refaat Abd El Razek (Construction and Project Management, Zagazig University)</i>	

	General Lectures (Main Hall)
1:00 – 1:30	<p><u>Lecture 3</u> Title : Hybrid Project Management Techniques for Disruptive Times Eng. Ahmed Saleh - Senior Project Management Consultant and Speaker Moderators: <i>Prof. Hatem Geith (Concrete Research Institute, HBRC)</i> <i>Prof. Ibrahim Abd El Rashid (Construction and Project Management, Ain Shams University)</i> <i>Prof. Hesham Abdelkhalek (Construction and Project Management, Alexandria University)</i></p>
	General Lectures (Main Hall)
1:30 –2:00	<p><u>Lecture 4</u> Title : Structural-Health Evaluation of Bridges by Non-Destructive Testing Prof. Talaat Salama – Professor at Central Connecticut State University Moderators: <i>Prof. Tarek Bahaa (Material and Quality Control Research Institute, HBRC)</i> <i>Prof Karim El Dash (Construction and Project Management, Banha University)</i> <i>Assoc. Prof. Akram Hassan (National Research Center)</i></p>
	Workshop (Main Hall)
2:00 –3:00	<p><u>Smart Economy</u> Prof. Ashraf Kamal (Moderator)- Professor of Urban Economic and Planning, HBRC Assoc. Prof. Marwa Sebaweh – Technical Consultant for Ministry of Housing, Utilities and Urban Community- Urban Planning, Cairo University International Experts Coordinator: (Eng. Fatma Abdel Moniem)</p>
	Workshop (Hall 1)
2:00 –3:00	<p><u>Management of Smart Transportation</u> Prof. Sami Abou- Zeid (Moderator) - Advisor to the Minister of Housing, Utilities and Urban Communities for the Roads and Transport Sector Dr. Tarek Yousry - Regional and Urban Planning, Cairo University Eng. Ahmed Ellithy – Mwasalat Misr Coordinator: (Dr. Ahmed Afifi)</p>
3:00-4:00	Lunch

Tuesday 22-6-2021

8:30- 9:00	Welcome Coffee
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9:00–10:00	Workshop (Main Hall)
	<p><u>From Ordinary to Smart Buildings</u> Prof. Waleed Hussein (Moderator) – Head of Urban Design and Site Coordination Department, ECG Prof. Dina Shohaieb - Director of Architecture Department, Nile University Prof. Mohamed Mekawi – CEO of City Edge Developments Coordinator: (Eng. Radwa Mahmoud)</p>

10:00– 11:00	Paper Sessions (Main Hall)
	<p>Session 1 : Strategic and Project Management <u>Moderators:</u> <i>Prof. Sayed Shebl (Director of Electromechanical Research Institute, HBRC)</i> <i>Prof. Maha Elshafie (Sanitary and Environmental Research Institute, HBRC)</i> <i>Assoc. Prof. Ahmed Abdelalim (Construction and Project Management, Matarya University)</i> <u>Papers Codes: 4,5, 34,38</u> Benefits Realization Management Maturity Model (BRM3) for Projects and Programs Amr Mossalam A Selection Technique for Projects Subject to a Budget Constraint (Economic Slowdown driven by Covid-19 in Dubai as an Example) Amr Mossalam Knowledge Management For Enhancing Communication In The Architectural Design Process During Pandemics: A Case Of Covid-19 Habiba F. Abdelnaby Lean Supply Chain as an Approach For Achieving Sustainability During Design Phase Al Dolify A.G Coordinator: (Eng. Salma Saber)</p>

10:00– 11:00	Paper Sessions (Hall 1)
	<p>Session 2 : Solid Waste Management & Sustainable Asset Management <u>Moderators:</u> <i>Prof. Hassan Allam (Concrete Research Institute, HBRC)</i> <i>Prof. Magdy Hilal (Building Physics Research Institute, HBRC)</i> <i>Prof. Ibrahim ElMahdi (Construction and Project Management, Ain shams University)</i> <u>Papers Codes: 17, 18, 19, 35, 44</u> Analytical Study for Sustainability Assessment Modeling Gehad Fathy</p>

	<p>Deterministic Analysis for LCC Model for Sustainable Educational Buildings in Egypt Gehad Fathy Using Construction Demolition Waste (CDW) as Recycled Aggregate in Non-Structural Concrete Elements Ammar Zaki Early Supplier Involvement as an Approach for Reducing Construction Waste Generated during the Architectural Design Process Yomna A. El-saeidy The Impact of Recycled Glass on the Fire Resistance and Flexural Behavior of Reinforced Concrete Slabs Ahmed Fawzi Ahmed</p> <p style="text-align: right;">Coordinator: (Eng. Omnia Khaled)</p>
	(Hall 2)
	<p>Paper Sessions</p> <p>Session 3 : Strategic and Project Management</p> <p>Moderators: <i>Prof. Hanan El Nohey (Material and Quality Control Research Institute, HBRC)</i> <i>Prof. Hesham Osman (Construction and Project Management , Cairo University)</i> <i>Prof. Anwar Mahmoud (Minister Assistant for National Projects, Ministry of Higher Education)</i></p> <p>Papers Codes: 10, 27, 42 43</p> <p>10:00– 11:00 Application of SWOT Analysis in Smart Grid Dina M.Said Ayad Risk Management and Data-Driven Assets as an Approach to Reduce Construction Projects Failure during the Design Phase: Information Flow Perspective Alhassan A. Darwish Priorities and Skills of Smart Cities In Egypt - Project Management Perspective Wafaa Arandah Risk Analysis in Infrastructure Projects in Egypt Ahmed Afifi</p> <p style="text-align: right;">Coordinator: (Eng. Mohamed El-Hadary)</p>
11:00- 11:30	Coffee Break
	(Main Hall)
11:30–12:30	<p>Closing Session</p> <p>Conference Recommendations Conf. Chairman: <i>Prof. Khaled El-Zahby</i> Conf. Co-Chair: <i>Prof. Manal Abdelhamid</i> CPMRI Director: <i>Prof. Tarek Attia</i> Head of Organizing Committee: <i>Prof. Mohamed Fathy</i> Conference Coordinator: <i>Assoc. Prof. Ireny Beshara</i></p>
6:30	Ending Ceremony