Call for Contributions

1. Inform the Chair
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=MODERN+SYSTEMS+2022+Special
Please select Track Preference as **DTI-HUB**

3. Note: *For 2022, all events will be held in a hybrid mode: on site or virtual choices (live, pre-recorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

DTI-HUB: Digital Twin International Hub

Chair
Prof Hany Moustapha, École de Technologie Supérieure, Canada
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Co-Chair
Dr Alan Martin Redmond, CSTB, France
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along with

MODERN SYSTEMS 2022
International Conference of Modern Systems Engineering Solutions
https://www.iaria.org/conferences2022/MODERNSYSTEMS22.html
July 24 to July 28, 2022 - Nice, Saint-Laurent-du-Var, France

According to BIM Extraction Software Market Outlook (2022-2032) 'The BIM extraction software industry reached US$ 140.9 M in FY2021 and future estimation for 2022-2032 period of assessment, the market is forecast to grow at a 9.5% value CAGR, reaching US$ 384.3 Million.' The report identifies that "technological advancements such as AI & ML, 3D printing, cloud collaboration and augmented reality have penetrated the AEC industry, and the scope for BIM extraction software is increasing sharply." IFC the open standard for BIM exchanges originated in 1983, IFC-STEP defined product modelling to improve the communication of engineering information (including manufacturing, ship building and construction).

However, the services of BIM such as creating virtual models and simulations before constructing the physical model is being pushed beyond the parameters of traditional BIM to the evolution of Digital Twin (data integration and how the data flows between the digital and physical counterparts). For the construction industry to be as efficient as the manufacturing industry, new breakthrough technologies and system engineering methods must be embraced to improve supply chains, reduced costs and advance Life Cycle Analyses and Life Cycle Costing.

Topics include, but not limited to

- Disruptive Technologies
- AI & ML, Additive Manufacturing, Cloud Collaboration, IoT, Robotics and AR/VR/XR
- Digital Twin & Building Information Modeling
- Neutrality and circularity
- Supply Chain & Logistics
- Drones (UAVs) and Tele-operated construction machinery
- Technology Implementation

Contribution Types
- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Datelines
Inform the Chairs as soon as you decide to contribute
       Submission: June 10
       Notification: June 26
       Registration: July 6
       Camera-ready: July 6
Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.org
- Print proceedings will be available via Curran Associates, Inc.: http://www.proceedings.com/9769.html
- Articles will be archived in the free access ThinkMind Digital Library: http://www.thinkmind.org

Paper Submission
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=MODERN+SYSTEMS+2022+Special
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Registration
- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at http://www.iaria.org/registration.html

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