

Construction Computing

Forward Feature List 2023

The features below reflect subjects that may be covered within the issues named. Below that is a list of subjects that are being actively researched with a view to inclusion in Construction Computing when that become topical or interesting.

January/February

Where do we stand on Net Zero, one year after COP27

What next for BIM – is it just another business expense for contractors

The skill shortage is increasing as older workers leave the profession

Trends in terrain development, site management and the merging of GIS and CAD data.

Real-time visualisation – are we spoilt for choice?

March/April

Leveraging Artificial Intelligence for greater efficiency on the construction site

BIM for enhanced landscape design

Keeping track of Building Regulations and Government Policies with ERP

Retro construction – repurposing classical and listed buildings

Structural Detailing and Analysis – and integration with design applications.

May/June

Focus on electricity generation – traditional versus sustainable technologies

Mobile viewing apps – empowering the client

Off-site Fabrication and Modular Construction

Worker safety and security – Is he adequately safe, qualified equipped?

Is COBie a valid solution for Facilities Management?

Ascertaining levels of Risk for a construction project

July/August

A transport plan for the next 100 years. Is HS2 a part of that?

Algorithmic modelling used in architectural design

3D printing in action from small components to whole buildings

Sustainable and low-impact building materials

Construction Simulation and beyond – 5D. 6D?

September/October

Smart cities and the use of IoT to monitor, control or leverage inhabitant behaviours

The impact of electrical and autonomous vehicles on the transport infrastructure

The growth of drone technology and its benefits for the construction industry

Construction Accounting – coping with material and skill shortages in a volatile market

Concrete developments – pre-fab and on-site poured.

Improving on-built site inspections, snagging issues and change management

November/December

Project Planning tools – who should be involved?

Water management – a viable strategy for a parched world replete with water resources

Urban Design issues – pollution, noise, waste disposal, urban transport for a car less society

Collaboration and Integrated design solutions

Working from home vs flexible working arrangements – the impact on the people/The City

The following subjects are continually under review

Architectural Design software

Collaborative technologies

Facility Management solutions

Cloud based construction software

Construction Management issues

BIM related topics

Landscape Design and terrain development

Likewise, construction hardware of interest

Wide Format Printers

Drone technology

3D scanners

Mobile computing devices, laptops and workstations

Artificial Intelligence in Construction

And, of course.....The Internet of Things