

Construction Computing

Forward Feature List 2024

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

Was COP28 a COPout? Have those with vested interests influenced the outcome?

Asset management relies on more than just BIM. Leveraging operating intelligence.

Is the skill shortage just a myth, as we shed construction workers, but enlist tech savvy youngsters?

Augmented Reality? Working with Digital Twins to refine construction techniques and training.

March/April

Sustainable housing development – building houses for a sustainable future.

Should Water utilities be nationalised? Is financial investment hamstringing water infrastructure development?

Keeping up-to-date with the latest Government Building regs and Initiatives.

Context capture being used to model new builds in urban environments.

The latest developments in structural detailing. and integration with design applications.

May/June

How fare have we got with Artificial Intelligence?

Sustainable electricity generation. Are Fusion and fission to be part of this?

Maintaining an effective supply chain for materials and human resources.

On-site project management using the latest remote mobiles and laptops. Balancing safety with efficiency.

Ascertaining levels of Risk for a construction project- what hammers the bottom line most?

July/August

About now we are probably in the middle of the next global drought? What measures are being adopted to deal with such catastrophes?

Free-form modelling used in architectural modelling and parametric interior design

Making Smart cities work. Is it a function of IoT, or will populations have to be moulded too?

Has WFH changed the landscape in large cities?

September/October

Is 3D printing a feasible solution at any scale? Or is it just a fun gimmick?

Sustainable and low-impact building materials

Construction Simulation to include time scales, costs and construction modelling?

Construction Accounting –keeping a lid on spiralling costs by foreseeing and mitigating risks.

What's holding back HS2 and the National Rail Network? Ballooning costs, poor political judgement or ill-considered aspirations?

Handling snagging issues and change management issues effectively.

November/December

Project Planning tools – who should be involved?

Building higher density buildings to accommodate growing urban populations.

The things we forget about in Urban Design – pollution, noise, waste disposal, urban transport for a car less society – and how do we factor them in?

Collaboration and Integrated design solutions - sharing designs with vastly different technologies and data sources.

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 and point clouds

Mobile computing devices, laptops and workstations

Artificial Intelligence in Construction

And, of course, more onThe Internet of Things