Forward Features List 2020

The features below reflect subjects that will 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 they become topical, or interesting.

**January/February**
- Digital twins and Smart Cities
- ERP and Information Management Integration tools
- The future of Roads, Rail and Airports part 1
- Building Inspection Methods and Devices
- BIM and the evolution of federated data models
- Modular Construction and Off-site Fabrication

**March/April**
- Planning for an Ailing Planet
- BIM – Where are we now?
- Virtual Reality Modelling
- Health & Safety – How can Software help?
- Project Management and ERM – The Digital Project
Concrete Design and Analysis

The Future of Roads, Rail and Airports part 2

Storm water modelling, Drainage systems, Flood risks etc

May/June

Infrastructure projects – HS2 and CrossRail – a sober assessment

Finite Element Analysis in Structural Design

Immersive reality – crossing the boundaries

BIM for the Project Manager

Collaboration and model data exchange standards

Engineering Change Management

3D Printing used in Architecture

July/August

Artificial Intelligence in Construction or is it just Machine Learning?

Building Performance and the Environment

Developing a power strategy for an electricity driven world

Project Information Management

Using BIM Data for Asset Management

Health & Safety/Risk Management
**September/October**

- Structural Design/Detailing for Off-site Fabrication
- Robotic Construction Techniques
- Training the Next Generation of Builders
- Construction Computing Awards Preview
- Construction Simulation.
- Integrating GIS with AEC CAD
- Are CAD printers a dying breed?

**November/December**

- Free Form 3D Modelling tools and Generative Design
- Artificial Intelligence and Asset Management
- Mobile Construction Inspection tools
- Compliance Issues and Standards
- Can we build on Flood Plains when Land is scarce?
- Using Fluid Dynamics to stabilize tall structures

**The following AEC and Civil Engineering subjects are continually under review**

- Architectural design solutions
- Collaboration Software tools
- Facilities Management
- Civil Engineering
- Environmental Analysis
- BIM under Government Guidance
- Process Plant design
Bridge Design
Flood Defences
Utilities and Power Grids

**Hardware for CAD applications that will be reviewed from time to time will include:**

Wide Format Printers
Workstations
3D Scanners
Display units
Graphics Cards,
Mobile Computing Devices
Drones and other data capture devices