

# Construction Computing

## Features List 2018

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

BIM - BIM is Dead – long live BIM.

Information Management to support the Construction Project

Structural Engineering Design and Analysis

Power Generation and Renewables

Health and Safety and Risk Management

The Hammers Awards results

### March/April

FIM - Fabrication Information Management

FEA in structural engineering and analysis

Managing Smart Cities – Leveraging construction, infrastructure and human data

Contractor and Supplier Performance monitoring

Augmented Reality and Virtual Modelling

ERP and Total Project Management

## **May/June**

Building Performance Modelling using CFM and other tools.

Project Accounting and Tender Management

Pre-cast and Poured Concrete Design

Internal and External threats - Cyber and On-site security in the Construction Industry

BIM and Collaboration in the Cloud

3D Printing – from Concept Design Modelling to Printing Houses.

## **July/August**

Immersion in a Virtual World – the latest tools and techniques.

Minimising Engineering Change Orders

Data Exchange Standards – their evolution and obsolescence

4D and 5D – Construction Simulation

Solving the 'skill Shortage' Problem

Global Design and Construction Management – the Connected Project.

## **September/October**

CAD Software Reviews

Water Utilities – Flood and Wastewater Management

Hardware Reviews – Wide Format Scanners and Printers

Using Drones for Project Management and As-built-studies

On-line Building Component Libraries

Rail and Road Infrastructure Projects

## **November/December**

CAD Software Review

Bridge and Tunnel Design – The Balance between Form and Function

Asset Management in a Saturated City – Keeping tfl at work

The Internet of Things – How far have we come in just 12 months?

As we move to BIM Levels 3 and 4 – was BIM Level 2 Successful?

Concept Model Creation – the Tools at hand.

### **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

### **The following Hardware products will be reviewed periodically:**

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