

# Movable Bridges

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## Bridge Engineering

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A special edition of Bridge Engineering covering movable bridges is planned for June 2011.

Engineering of moveable bridges is a stimulating challenge for both designers and constructors, and the more recent vogue for iconic structures has noticeably encouraged ingenuity that sometimes challenges that applied by the designers of the earlier 'bridge machines'. Blending the conventional statics-dominated discipline of mainstream bridge engineering with mechanics, hydraulics, electrics and electronics adds other dimensions to intrigue and test bridge designers who are fortunate enough to be given the opportunity.

Responsibilities to limit self weight in the interest of a client's budget are more demanding due to the cost of power, and dealing with the essential control of shape and movement in a three-dimensional airspace to achieve waterway clearances is exacerbated by the fourth dimension of time to deliver efficient openings and closures. All this and development of critical health and safety procedures for these higher-risk structures presents continual opportunity for development of improved conventional designs and new ideas. Developments in IT are expected to facilitate new systems for operating and controlling bridge movements. For roll-on/roll-off berths in ports, ship-to-shore link spans can often stretch the demands on movable bridge designers with facilities that are required to articulate in a variety of modes to deal with tides, waves and vessel movement on the berth.

Papers are invited on all aspects of movable bridges including:

- Highway, railway and pedestrian bridges
- RO-RO structures

Topics can include (but not be limited to):

- Case studies in procurement and/or design and/or construction
- Mechanical and electrical aspects, including control systems
- Inspection, maintenance, refurbishment and strengthening
- Use of new materials
- Construction methodology
- Applicable design and certification standards

Papers from professionals and researchers engaged in any aspect of these fields or other relevant topics are welcome.

### Invitation to authors

Contributors are invited to submit full papers, which will be subject to the usual refereeing procedures. If you have any queries please contact Agnes Alvite, editorial coordinator, using the details below.

### Paper format

Papers should be 3000– 5000 words long and where appropriate illustrated with 6–10 photographs and/or line drawings. Submissions should be electronic, with all text as a single Word file and images as separate tif files at least 1500 pixels wide.

### Paper submission

Contributors are invited to submit a brief outline (of about 200 words) by 3 May 2010, with the completed paper by 6 September 2010 for consideration by the Editorial Panel.

Please e-mail abstracts to Agnes Alvite, editorial coordinator, using the details below. Shorter briefing articles or full papers on any topic within the journal's aims and scope are also always welcome.

### Referees

We continually need referees to review papers in a timely fashion and provide confidential feedback to the Editorial Panel concerning the paper's quality and any suggested revisions.

If you are interested in reviewing articles on any topic related to bridge engineering, please contact Agnes Alvite, Editorial Co-ordinator, using the details below for more information on the referee process.

[www.bridgesjournal.com](http://www.bridgesjournal.com)