

# CONCEPTUAL DESIGN AND ANALYSIS OF LONG SPAN STRUCTURES

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**Key words:** *structural architecture, wide span structures, reliability, experimental analysis, monitoring.*

## ABSTRACT

Long span roof are today widely applied for sport, social, industrial, ecological and other activities. The experience collected in last decades identified structural typologies as space structures, cable structures, membrane structures and new - under tension - efficient materials which combination deals with lightweight structural systems, as the state of art on long span structural design. In order to increase the reliability assessment of wide span structural systems a knowledge based synthetic conceptual design approach is recommended. Theoretical and experimental in scale analysis, combined with a monitoring control of the subsequent performance of the structural system, can calibrate mathematical modelling and evaluate long term sufficiency of design.

## INTRODUCTION

Long span structures are today widely applied mainly for sport buildings as:

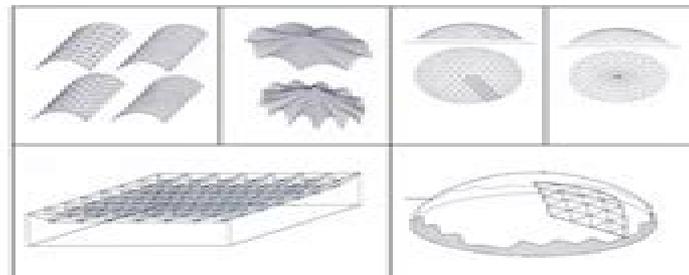
- Stadia
- Sport halls
- Olympic swimming pools
- Ice tracks and skating rinks
- Indoor athletics

*The state of the art trend on widespan enclosures: the lightweight structures - from compression to tension.*

According to the state of the art, the more frequently typologies and materials used for wide span enclosures are:

### Space structures

- single layer grids
- double and multi layer grids
- single and double curvature space frames [1]



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**Jiyuan Zhang**



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