

# Curriculum Vitae of Ken'ichi Kawaguchi

## Ken'ichi Kawaguchi

Professor, Department of Architecture, the University of Tokyo  
PhD. (1991, the University of Tokyo)

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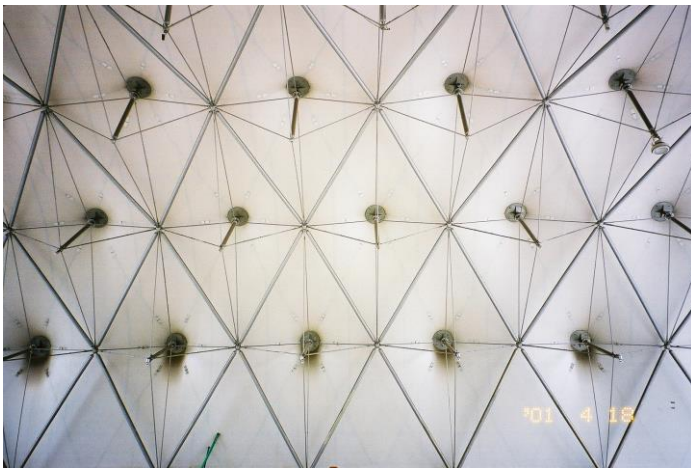
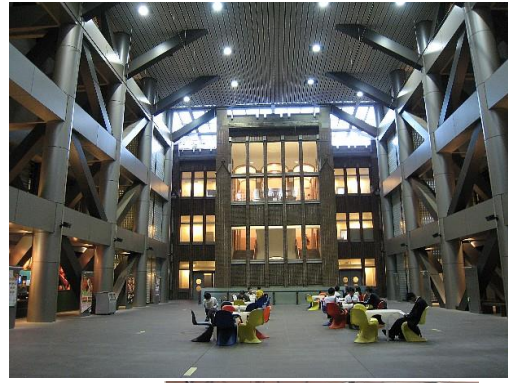


## Short Bio Sketch of Ken'ichi Kawaguchi

Dr. Ken'ichi Kawaguchi is a professor in the Institute of Industrial Science, the University of Tokyo. He graduated from the department of architecture at Waseda university for his undergraduate study in 1985 and finished his master (1988) and PhD degree (1991) at the university of Tokyo. He started his academic carrier in the study on numerical analysis of kinematically indeterminate structures. He also handles structural design of buildings and practical developments of structural devices. He has developed the tension truss system and constructed a dome in 1991. He also designed a world first typical tensegrity structure, White Rhino in 2001 and new faculty building for department of engineering in the University of Tokyo in 2006. He has also proposed and developed two new types of seismic base-isolation systems, one of which has been already put in the commercial and several houses were constructed with the system. He has kept warning the dangerous failure of ceilings in large public spaces since Kobe earthquake in 1995 and the warning became true in the Japan earthquake 2011. Then his proposal of using lighter ceiling material, such as textile membrane, instead of heavy plasterboards, has been quickly and widely getting popularity. Since 2004 he has been a member of Executive Council of the IASS, the International Association for Shell and Spatial Structures. He is currently serving as one of the vice presidents of IASS since 2012.

## Recent Research Topics

1. Development of 10m Re-usable Deployable Arches
2. Development of Deployable Compression Ring for SSPS (Space Solar Power Station)
3. Development of New Lightweight Structural Systems
4. Deployable Tensegrity Structures
5. Safety of Large Covered Space
6. Tension Structures
7. Numerical Analysis of Structures



## WORK EXPERIENCE

April 2006-  
Now

### **Professor**

Institute of Industrial Science, the University of Tokyo, Tokyo, JAPAN

April 1995-  
March 2006

### **Associate Professor**

Institute of Industrial Science, the University of Tokyo, Tokyo, JAPAN

October 1991-  
March 1995

### **Lecturer**

Institute of Industrial Science, the University of Tokyo, Tokyo, JAPAN

April 1991-  
September 1991

### **Research Assistant**

Institute of Industrial Science, the University of Tokyo, Tokyo, JAPAN

April 1993-

### **Visiting Scholar**

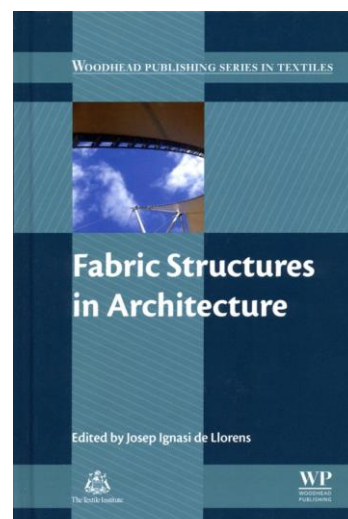
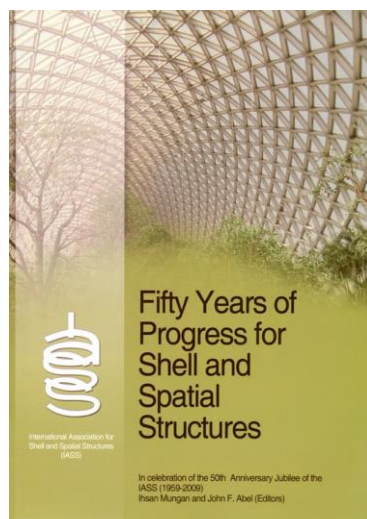
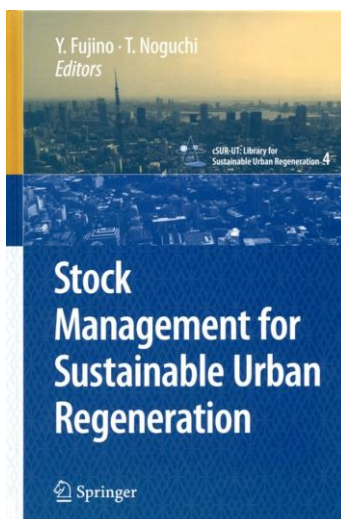
September 1993	Department of Civil Engineering, Imperial College, London, UK
October 1993- January 1994	<b>Visiting Scholar</b> Department of Engineering, Cambridge University, Cambridge, UK
April 1994- Now	<b>Part-time lecturer:</b> Advanced Structural Analysis (a regular class in the spring semester) Department of Architecture and Building Science, Graduate School of Engineering, Tokyo Metropolitan University, Tokyo, JAPAN
October 1999- 2008	<b>Part-time lecturer:</b> Advanced Structural Design (two lectures in the autumn semester) Department of Architecture, Graduate School of Engineering, Tokai University, Kanagawa, JAPAN
April 2002- 2008	<b>Part-time lecturer:</b> Structural Design and Seismic Design (a regular class in the spring semester) Department of Architecture, Yoyogi Campus, Tokai University, Tokyo, JAPAN

### AWARDS & HONORS

- 1999 The Encouragement Prize of Architectural Institute of Japan
- 2004 The Best Paper Award from Membrane Structures Association of Japan
- 2008 The Japan Society of Seismic Isolation Award
- 2012 The AIJ Prize of Architectural Institute of Japan
- 2016- Honorary Professor of Tianjin University, China

### MAJOR STRUCTURAL DESIGN WORKS

- Structural Design of Tension Truss Dome, at Roppongi, Tokyo, Japan, 1990-1991
- Structural Design of Tensegrity Dome, at Nishi-Chiba, Chiba, Japan, 2001-2002
- Structural Design of Spiral Timber Roof for Uchimachi Festival Park, at Mashiko, Tochigi, Japan, 2001-2002
- Fundamental Structural Design for New Faculty Building No.2 & 3, at Hongo, Bunkyo-ku, Tokyo, Japan, 2000-2003





天井等の非構造材の落下に対する  
安全対策指針・同解説

Guidelines for safety measures  
against accidental fall of ceilings and  
other non-structural components

日本建築学会

