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**Selected Publications:**

Kato, S.; Hidaka, K.; Aoki, T.: The Florentine Dome of Santa Maria del Fiore. Shells, Membranes and Space Frames, (edited by K. Heki), Amsterdam, Oxford, New York, Tokyo 1986

Kato S, Mutoh I, Shomura M. Effect on joint rigidity on buckling strength of single layer lattice dome [J]. Bulletin of the International Association for Shell and Spatial Structures, 1994, 35(115): 101–109.

S. Kato, M. Iida and T. Yamashita, Buckling loads of simply supported single layer latticed roofs under uniform vertical loading, Journal of Structural Engineering 41B (1995) 247–257. (in Japanese)

S. Kato and I. Mutoh, Influence of local imperfections on buckling strength of reticulated shells, J. Struct. Eng. vol. 42-a , pp. 147-158, 1996.

Kato Shiro (Toyohashi Univ. of Technol.) Yamashita Tetsuo (Tomoe Corp.) Shibata Ryoichi (Gifu Natl. Coll. of Technol.), “Evaluation of Buckling Strength of Two-way Grid Shell using Continuum Analogy”, Journal of Structural Engineering. B, Vol. 46B, pp. 167-174, 2000, (in Japanese)

2001 Recipients for the best papers published in Proceedings of IASS Annual Symposia: M. Uchikoshi, S. Kato, S. Nakazawa and Y. Mukaiyama (Japan): "How Do We Realize a Super Large Dome Under Severest Earthquake?: A Dome with Seismic Isolation System", 2001

Shiro Kato and Tetsuo Yamashita, “Evaluation of Elasto-plastic Buckling Strength of Two-way Grid Shells using Continuum Analogy”, International Journal of Space Structures, Vol. 17, No. 4, December, 2002 doi: 10.1260/026635102321049510

2005 Recipients for the best papers published in Proceedings of IASS Annual Symposia: Y.Ookouchi, T.Takeuchi, T.Uchiyama, K.Suzuki, T.Sugiyama, T.Ogawa and S. Kato (Japan): "Experimental Studies of Tower Structures with Hysteretic Dampers", 2005

Kato S, Yamashita T, Nakazawa S, Kim Y, Fujibayashi A. Analysis based evaluation for buckling loads of two-way elliptic paraboloidal single layer lattice domes [J]. Journal of Constructional Steel Research. 2007, 63: 1219–1227.

Shiji Nakazawa, Shiro Kato and Rhyoichi Shibata, “Seismic Risk Evaluation of Spatial Structures by Using Grid Computing System”, Symposium of the International Association for Shell and Spatial Structures – IASS, December 2009, pp. 366-377, URI: <http://hdl.handle.net/10251/6529>

Kato S, Nakazawa S, Nobe K, Yoshida N. Semi-probabilistic evaluation of buckling strength of two-way single layer lattice dome [C]// Proceeding of the IASS Symposium. Shanghai: IASS, 2010: 384–395.