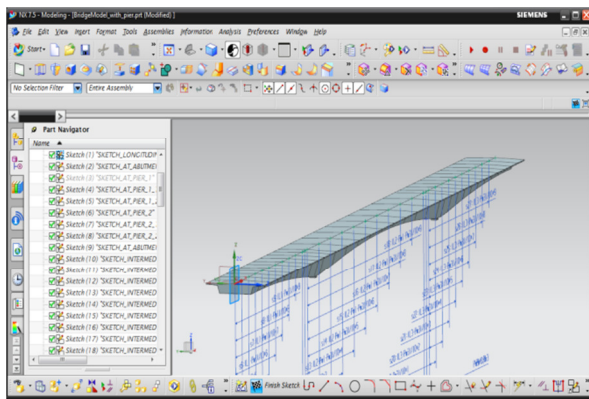


NX2SOFiSTiK – A data converter for Siemens NX and SOFiSTiK

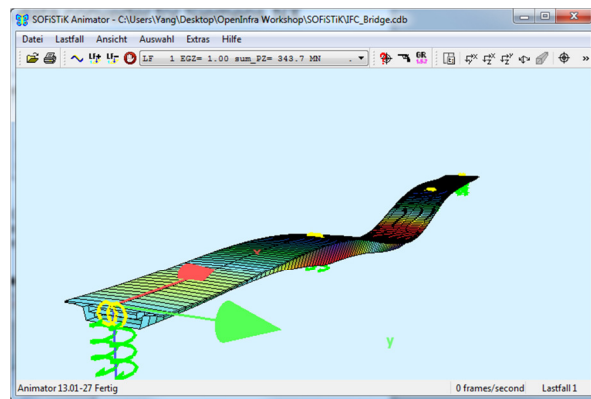
Project Characteristics

Mathematical Modeling:	low	★★★★☆	high
Programming Skills:	basic	★★★☆☆	advanced
Self-Reliance:	independent	★★★☆☆	supervised

Siemens NX is a very powerful Computer Aided Design (CAD) system which provides parametric modeling and freeform modeling capabilities. In an ongoing research project of the CMS Group, NX has been used for modeling 3D infrastructural buildings, e.g. bridges and tunnels. However, NX does not provide any data exchange interface with structural analysis programs (e.g. SOFiSTiK) in the civil engineering domain.



Siemens NX



SOFiSTiK

The main objective of this software lab is to develop an add-on based on NX that can convert IFC-Bridge data format into CADINP, the data input language of SOFiSTiK. The focus lies on creating a set of rules for data mapping between design system and structural analysis system.

The data converter NX2SOFiSTiK has to be developed with C#. This project will be done in cooperation with SOFiSTiK AG.

Supervisor

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