

# Moving-load analysis

**Moving-load analysis** is available to the [bridge modeler](#) for generating the influence lines and surfaces of vehicle loading within the traffic [lanes](#) of bridge and roadway infrastructure. Vehicle load may be created or selected from a variety of code-based standards, then combined and enveloped with additional static and dynamic [load patterns](#).

Additional information is available in the [CSI Analysis Reference Manual](#), Chapter "Moving-Load Analysis".

## Articles

## Tutorials

Title	Description	Program
<a href="#">Influence-based moving-load analysis first steps (CSiBridge)</a>	Procedure for setting up influence-based moving-load analysis.	CSiBridge
<a href="#">Influence-based moving-load analysis first steps (SAP2000)</a>	Procedure for initiating influence-based moving-load analysis.	SAP2000
<a href="#">Lane definition per layout line or frame</a>	This tutorial provides guidelines for lane definition according to either layout-line or frame-object configuration.	SAP2000
<a href="#">Step-by-step moving-load analysis first steps (CSiBridge)</a>	Procedure for setting up step-by-step moving-load analysis.	CSiBridge
<a href="#">Step-by-step moving-load analysis first steps (SAP2000)</a>	Procedure for initiating step-by-step moving-load analysis.	SAP2000

## Test Problems

Title	Description	Program
<a href="#">Horizontal moving loads</a>	Demonstration of horizontal moving loads	CSiBridge
<a href="#">Influence surface</a>	Influence-surface verification for a cantilever beam modeled using shell objects.	SAP2000
<a href="#">Moving-load analysis section cuts</a>	Verification of section-cut forces generated during moving-load analysis.	SAP2000
<a href="#">Saving section cuts during moving-load analysis</a>	Sections cuts may be saved during moving-load analysis through this procedure.	SAP2000
<a href="#">Vehicle remains fully in lane</a>	Verification of moving-load analysis when the option is specified for a vehicle to remain fully in lane.	SAP2000