

## Structural Engineering Software

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Software title	<b>SeismoArtif</b>
Software Category	Other
Provider	Sample Agent
Software type	Freeware
Is Featured	No
Price	<b>\$ 0,00</b>

### Other Information

<b>Description</b>	<p>SeismoArtif is an application capable of generating artificial earthquake accelerograms matched to a specific target response spectrum using different calculation methods and varied assumptions.</p> <p>SeismoArtif is an application capable of generating artificial earthquake accelerograms matched to a specific target response spectrum using different calculation methods and varied assumptions. It is noted that the use of real accelerograms and spectrum matching techniques (see SeismoMatch), together with records selection tools, tends to be recommended for the derivation of suits of records for use in nonlinear dynamic analysis of structures. However, in those cases where access to real accelerograms is, for whatever reason, challenging or inappropriate, then a tool such as SeismoArtif will be of pertinence and usefulness. This software can be used to generate suites of accelerograms for nonlinear dynamic analysis of new or existing structures. The program is capable of reading accelerograms and spectra saved in different text file formats. This collection of ground motion records and spectra is then used in the simulation phase for the definition of target spectrum or envelope shapes. Currently, the target spectrum can be created by following Eurocode 8 rules, by computing the spectrum of a specific accelerogram or by simply loading a user-defined spectrum. With both the target spectrum and the envelope type defined, an artificial accelerogram is generated and a comparison between its response spectrum and the target spectrum is given including the mean error in percentage, coefficient of variation, and PGA of the accelerogram. Finally, due to its full integration with the Windows environment, SeismoArtif allows for numerical and graphical results to be copied to any Windows application (e.g. MS Excel, MS Word, etc.), noting that the characteristics of the plots can be fully customised from within the program itself.</p>
Rate:	

**Supported Operating Systems:**

**Basic information**

**More features**

**Rooms' details**