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The general goal for the computer program was to develop a system capable to simulate nearly every design railway engineers might think

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Model Trains Simulator – Power  
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simulations of train operations on the

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Track plan, designed in SCARM. It will show you how the model rolling stock can be operated on a real layout. You can run simulation sessions for checking your plan concept, to see how long and how many trains can be safely operated on that plan, to calculate time schedules based on

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Trains running time or just for fun.

Simple Computer Aided Railway  
Modeller - SCARM Software  
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Trains Simulator (MTS) is intended for 2D and 3D simulations of train operations on the track plan, designed in SCARM. It will show you how the model rolling stock can be operated on a real layout.

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RailSys3.0 is a German railway simulation program that deals with this goal. In this paper, a railway network operation, with different suggested modifications in infrastructure, rolling stocks, and control system, using RailSys3.0, has been studied, optimized, and evaluated.

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Computer aided casting methoding of  
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Computer simulation is the process of  
mathematical modelling, performed on

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a computer, which is designed to predict the behaviour of or the outcome of a real-world or physical system. Since they allow to check the reliability of chosen mathematical models, computer simulations have become a useful tool for the mathematical modeling of many

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natural systems in physics  
(computational physics ...

Computer simulation - Wikipedia  
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