

---

**ABSTRACTS**

---

*doi:10.22306/asim.v7i4.63**Received: 03 Nov. 2021**Revised: 16 Nov. 2021**Accepted: 02 Dec. 2021***INFLUENCE OF DISPLAY MODE ON DISTANCES IN SOFTWARE  
TECNOMATIX PLANT SIMULATION  
(25-29)****Lucia Mozolová**Department of Industrial Engineering – University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovakia, EU,  
lucia.mozolova@fstroj.uniza.sk (corresponding author)**Štefan Mozol**Department of Industrial Engineering – University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovakia, EU,  
stefan.mozol@fstroj.uniza.sk**Milan Gregor**Department of Industrial Engineering – University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovakia, EU,  
milan.gregor@fstroj.uniza.sk**Patrik Grznár**Department of Industrial Engineering – University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovakia, EU,  
patrik.grznar@fstroj.uniza.sk**Keywords:** distances, modelling, simulation, Tecnomatix Plant Simulation**Abstract:** The article presents the results of comparing the two principal display modes in the software Tecnomatix Plant Simulation. Currently, there is an increase in the application of modelling and simulation in industrial practice. Behind this are the new features of the simulation software and the growing number of users who control the simulations. The complexity of the simulation for the simulator is derived from the complexity of the system and the required degree of accuracy. The accuracy itself depends on the abstraction and reduction of the elements of the simulated system. Tecnomatix Plant Simulation software is a widely used tool that allows for multiple display modes, each with its specific purpose. The article aimed to determine the deviation between the individual display modes experimentally and outline their specific use based on abstraction and reduction level.

---

*doi:10.22306/asim.v7i4.64**Received: 17 Nov. 2021**Revised: 30 Nov. 2021**Accepted: 14 Dec. 2021***SIMULATION, DIGITAL TECHNOLOGIES  
AND THEIR IMPACT ON WORKERS  
(31-35)****Monika Bučková**Department of Industrial Engineering, University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovak Republic, EU,  
monika.buckova@fstroj.uniza.sk (corresponding author)**Miroslav Fusko**Department of Industrial Engineering, University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovak Republic, EU,  
miroslav.fusko@fstroj.uniza.sk**Ľuboslav Dulina**Department of Industrial Engineering, University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovak Republic, EU,  
luboslav.dulina@fstroj.uniza.sk**Vladimír Vavřík**Department of Industrial Engineering, University of Žilina, Univerzitná 8215/1, 010 26 Žilina, Slovak Republic, EU,  
vladimir.vavrik@fstroj.uniza.sk

---

---

**ABSTRACTS**

---

**Keywords:** digitization, computer simulation, industrial engineering, workers

**Abstract:** This article provides information about the impact of the development of simulation possibilities, digitization and technologies on workers. This article aims to present possible problems for workers with the adoption of new technologies. They must increase their knowledge and skills about information technologies to understand the functioning of the software and their modules because by the time they must control and set them. This article can also give readers answers to how solution phases of simulation projects can be changed and how computer simulation can help solve problems with unstable situations of many workers in the workplace. We also present recommended phases of the simulation project that will help create scenarios, which will help reduce the impact in a risk situation.

---