In this issue

Research Article

Numerical analysis of forming the tri-layer non-homogeneous bellows via the hydroforming process

Author(s): Pezhman Ghanbari, Behnam Akhoundi* and Vahid Modanloo

Due to the complex and structural characteristics of non-homogeneous layers in hydroforming, their forming is a challenging process. In this research, the manufacturing process of three-layered bellows made of 304 stainless steel (two outer layers) and Inconel 718 (inner layer) is numerically investigated. The effects of different parameters on the forming of bellows ...

| Abstract View | Full Article View | DOI: 10.17352/tcsit.000064 |

Exploring the user's preferences of different adaptation policies in adaptive menu design

Author(s): Prashant Poudel* and Sushil Shrestha

Adaptive User Interfaces (AUIs) have been developed to improve the usability of products by adapting to the user, the platform, and the environment. However, there is a limited understanding of how different adaptation policies impact personalization and usability in adaptive menus. The present study aimed to investigate the effectiveness of different adaptation polic ...

| Abstract View | Full Article View | DOI: 10.17352/tcsit.000062 |

Review Article

Effects of using augmented reality on students' learning

Published On: February 07, 2023 | Pages: 001 - 004

Author(s): António Faria and Guilhermina Lobato Miranda*

This article presents the results of a systematic review of the literature regarding the effects of using Augmented Reality (AR) on the learning of science students (Natural Sciences and Biology). The PRISMA methodology was used. Ten articles were selected from indexed journals, in a period of time between 2010 and 2022, after applying the inclusion and exclusion cri ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000061

Short Communication

Neural networks are a methodological basis of materials genome

Published On: March 24, 2023 | Pages: 012 - 015

Author(s): Victor S Abrukov*, Weiqiang Pang and Darya A Anufrieva

Materials Genome is an analytical and calculation tool that: contains all relationships between all variables of the object; allows to calculate of the values of one part of variables through others; allows to solve of direct and inverse problems; allows to predict of the characteristics of objects, which have not been investigated experimentally yet; allows to predic ...

Abstract View   Full Article View   DOI: 10.17352/tcsit.000063