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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 12-15
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

What is new in teaching science structured around the notion of 'scientific competence'?

(Conference Paper)

Villalba-Condori, K.O.[a], Adúriz-Bravo, A.[b], García-Peñalvo, F.J.[c], Lavonen, J.[d]

[a]Universidad Católica de Santa María, Peru
[b]CONICET, Universidad de Buenos Aires, Instituto CeFIEC, Facultad de Ciencias Exactas y Naturales, Ciudad Autónoma de Buenos Aires, Argentina
[c]Computer Science Department, Research Institute for Educational Sciences, University of Salamanca, GRIAL Research Group, University of Salamanca, Spain

View additional affiliations

Abstract

[No abstract available]

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SciVal Topic Prominence

Topic: Technology Integration | Pre-service Teachers | IPAD

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Importance of the Concept of "Competency" in Science Teacher Education: What Are the Professional Competencies for Science Teachers?

Villalba-Condori, K.O. , Adúriz-Bravo, A. , Lavonen, J.
(2020) Communications in Computer and

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 17-26
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Use of technologies for the production of texts with academic originality (Conference Paper)

Cantoral, E.M.[a], Suárez, S.M.E.[b]

[a]Universidad Continental, Peru
[b]Tecsup, Peru

Abstract

View references (31)

This innovation entitled use of technologies for production of texts with academic originality, aims to develop in student's the ability to produce texts respecting sources consulting to create their own texts and use technology as a support in regulating it's the originality academic. The methodology used was request the student to present the academic works through an anti-plagiarism software with free access delivery. The results showed a change of attitude in the students when making use of the platform, they began to use citations for parts of the copied texts and they reconstructed their own words to which no reference was make before.

SciVal Topic Prominence

Topic: Academic Dishonesty | Plagiarism | Cheating

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Ideas About Plagiarism and Self-plagiarism with University Professors and Researchers: A Case Study with WebQDA

Melo, L. , Soto-Ardila, L.M. , Luengo, R.
(2020) Advances in Intelligent Systems and Computing

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Volume 2555, 2019, Pages 28-37
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Statistical sense in the information society (Conference Paper)

Batanero, C.
University of Granada, Spain

Abstract

View references (27)

We are currently attending a paradoxical situation in the teaching of statistics. Being a topic that appears throughout the curriculum in practically all courses from Primary Education to University and even in postgraduate education, didactic research describes numerous errors in its interpretation. There are also numerous criticisms of the way in which statistics is used or interpreted in the media, politics and research. In this paper we analyse this situation and suggest that current teaching does not develop the statistical sense of students. We describe the components of statistical sense and offer some suggestions to improve of this sense in students and professionals. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Topic: Statistics Education | Simulation-Based Inference | Literacy

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 39-48
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Examining the role of STEM in Twelfth-grade Robot Subject Instruction using the UTAUT model

(Conference Paper)

Hsieh, C.-C. , Chiu, F.-Y.

National Tsing Hua University, Hsinchu, Taiwan

Abstract

View references (16)

Since the rise of the waves toward artificial intelligence, more and more countries robot education has changed from Robot-Assisted Instruction (RAI) to Robot-Subject Instruction (RSI). This study mainly compares the differences between the two teaching methods of RSI using traditional single subject teaching and STEM cross-disciplinary teaching. Through the data of Unified Theory of Acceptance and Use of Technology (UTAUT) and Course Satisfaction, this study finds out the advantages and disadvantages of STEM integration into RSI. Therefore, schools that are ready to promote RSI in the future can consider whether to use STEM-based RSI based on the analysis of this study. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

SciVal Topic Prominence

Topic: Technology Acceptance Model | Mobile Payment | UTAUT

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The UTAUT Model Applied to Examine the STEM in Hight School Robot Subject Instruction

Hsieh, C.-C. , Chiu, F.-Y.
(2020) Communications in Computer and Information Science

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 50-58
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Use of narratives on scientific experiments in the teaching of redox reactions in secondary education (Conference Paper)

Jara, R.[a], Merino, C.[a], Arellano, M.[a], Inzunza, G.[a], Satlov, M.[a], Adúriz-Bravo, A.[b]

[a]Instituto de Química, Facultad de Ciencias, Pontificia Universidad Católica de Valparaíso, Avenida Universidad 330, Curauma, Valparaíso, Chile
[b]CONICET, Universidad de Buenos Aires, Instituto CeFIEC, Facultad de Ciencias Exactas y Naturales, 2ºPiso, Pabellón 2, Ciudad Universitaria, Av. Intendente Güiraldes 2160, Ciudad Autónoma de Buenos Aires, C1428EGA, Argentina

Abstract

View references (18)

This study presents the implementation of narratives in a school chemistry laboratory; the narratives were directed to improving the learning about oxidation-reduction reactions among secondary students. The aims of the study are to characterize students' written narratives based on their lab-work and to categorize different 'types' of narratives related to how they approach scientific knowledge. We identify the application of 'cognitive-linguistic skills'. Students conducted a series of school science experiments (on oxidation-reduction) following a set protocol provided by the teacher. Once the lab activity was completed, they were asked to write a text ('experimental narrative') on it; the narrative became part of their laboratory report. Analysis of the narratives shows that a high percentage of students approach the written reconstruction of the experiment in a descriptive way. According to the categories applied in this study, the use of experimental narratives favors 'reflective' scientific learning. Copyright © 2019 for this

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 60-69
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Evaluation of brain attention levels using arduino and neurosky mindwave EEG according to age and sex (Conference Paper)

Pari-Larico, S., Llerena-Urday, B., del Carpio, Á.F., Rosas-Paredes, K., Esquicha-Tejada, J.

Faculty of Physical and Formal Sciences and Engineering, Universidad Catolica de Santa Maria, 04000, Peru

Abstract

View references (16)

Attention is one of the main cognitive skills that is constantly used in everyday life. However, various factors can be diminished and even blocked by various disorders, diseases or behaviors that affect people's performance. To analyze the brain signals, the Neurosky MindWave EEG device is required, this device determines the levels of attention of people when they perform some activity and Arduino for data capture. This article compares data obtained from reading the level of care of people of different ages and sex using the Neurosky and Arduino Uno devices. The results obtained show that women (sex) and adults (age) have greater stability of attention over time, and that men (sex) and youth (age) get to obtain higher levels of attention .

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 82-90
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Developing critical thinking in a STEAM classroom

(Conference Paper)

Lam, K.-F.T.[a,b], Wang, T.-H.[a], Vun, Y.-S.[a,c], Ku, N.[a]

[a]National Tsing Hua University, Taiwan
[b]Edu-Aequitas Pte Ltd, Singapore
[c]Affiliated Elementary School, National Tsing Hua University, Taiwan

Abstract

View references (13)

In an environment disrupted by technology, critical thinking is a crucial 21st Century Skill that allows learners to stay intact when any number of organizations (corporate, political, educational and cultural) try to influence readers to think and act in ways that serve their purposes (Brookfield, 2012). It has also been emphasized in the ATC21S project as one of the desired outcomes under 'Ways of thinking'. In this paper, we aim to share about how Design Based Research and DDMT teaching model can shape a chemistry lesson on water for Grade 5 learners. The lessons will be shaped towards guiding the learners in understanding acidity/alkalinity as required by the national curriculum and also seek to provide an insight into how young learners showcase development of critical thinking in the learning process.

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Collaborative learning using GIT with GitLab in students of the engineering programming course (Conference Paper)

Valdivia, R.G.B.

Universidad Nacional de San Agustín de, Arequipa, Peru

Abstract

View references (16)

This research has used Git, software for Version Control, as well as the GitLab web platform for teaching programming collaboratively, which has strengthened collaborative learning in the classroom, a skill that for a long time was a very alternative important for team teaching of programming courses in engineering schools; The use of the Git tool helped the teacher to improve the teaching of programming and allowed through the GitLab platform for students to interact and develop the skills of critical thinking, teamwork, correcting and teaching to program low-performance students, the results of the capacities were visualized and quantified through the reports delivered by the GitLab web platform. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 114-123
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Decision-making in the forum of distance Master of Project Management (Conference Paper)

Peña, A.B.[a], Vera, Y.P.[b], Aguilar, G.F.C.[c,d], Alcivar, I.A.M.[c,d], Victore, R.D.[a]

[a]University of Informatics Science, Havana, Cuba
[b]La Salle University, Arequipa, Peru
[c]Faculty of Engineering, Catholic University Santiago de Guayaquil, Ecuador

View additional affiliations

Abstract

View references (15)

Project management requires the mastery of documentation for decision-making in project management. Lack of knowledge and inexperience in decision-making affects the project quality. Developing a system based on ICT in remote education systems, and knowledge management, it enables more efficient training of specialists, in order to get results in less time, within budget and with the quality required by stakeholders. The research aims to develop a procedure for decision-making through a discussion forum, using ICT and project cuts. That project cuts reflects the status of the indicators and enable search for the causes of the damages on tasks, identify the effect on the project and analyze the damages and synthesis in an integrated process. It also enables navigation and simulation of possible solutions, select the best and proceed to decision-making. Research show the indicators for decision-making, navigation, simulation, evaluation and forum example of the Master of Project Management. Copyright © 2019

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(2019) Proceedings - 2019 45th Latin American Computing Conference, CLEI 2019

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Volume 2555, 2019, Pages 125-134
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Use of an educational intervention with audiovisual material to improve knowledge and practices on metaxenic diseases in schoolchildren. Peru (Conference Paper)

del Carpio-Toia, A.M.[a], Cárdenas, R.G.[b], Prado, R.G.[b], Aparicio, W.O.[c], Cuba, J.A.[b], Gómez, P.M.[c], Díaz-Vélez, C.[d], Bendezu-Quispe, G.[e], Vargas, C.M.[f]

[a]Universidad Católica de Santa María, Vicerrectorado de Investigación, Escuela de Medicina, Peru
[b]Universidad Católica de Santa María, Vicerrectorado de Investigación, Peru
[c]Universidad Católica de Santa María, Escuela Profesional de Publicidad y Multimedia, Arequipa, Peru

View additional affiliations

Abstract

View references (26)

Objective. Identify the level of knowledge and practices on metaxenic diseases in school children before and after an educational intervention with audiovisual material. Methods. Pre post design study developed in three public schools in Arequipa, Peru. Knowledge and practice surveys were applied before and after the educational intervention based on audiovisual material focused on the Aedes Aegypti vector and the role of schoolchildren in the identification and prevention of the disease. Results Surveys were applied to 300 schoolchildren between six and fifteen years. The level of knowledge and practices improved significantly in all students after the educational intervention, both in the aspects of knowledge (global, agent, symptoms, prevention and complications) with those of practices (individual and family)

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 136-145
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Interest in scientific and technological careers in Peruvian school students

(Conference Paper)

Darcourt, A., Ramos, S., Moreano, G., Hernández, W.

Ministerio de Educación del Perú, Oficina de Medición de la Calidad de los Aprendizajes, Peru

Abstract

View references (34)

The present study analyzed Peruvian students' expectations to get involved in scientific and technological careers and factors associated with those expectations through the analysis of PISA 2015 data. The expectancy-value theory was taken as framework to analyze science career expectations since it considers individuals' motivation, self-beliefs and attitudes, variables that have been proved to be influential in career choice. Analytical procedures included confirmatory factor analysis and binary logistic regression. Findings confirmed the importance of gender roles, socioeconomic status and scientific capital in the formation of interest in scientific or technological careers as well as attitudinal and motivational factors, as argued by the expectation-value theory.

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Why Do Peruvian School Students Choose Science and Technology Careers?
Darcourt, A. , Ramos, S. , Moreano, G.
(2020) Communications in Computer and Information Science

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 147-156
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Search model of educational trends based on Data Mining techniques (Conference Paper)

Huanca-Gonza, R., Vera-Sancho, J., Arbieto-Batallanos, C.E., Córdova-Martínez, M.D.C.

Universidad Nacional de San Agustín de Arequipa, Peru

Abstract

View references (18)

Internet is the broadest means of communication that has existed and is a highly effective means for the dissemination of information that allows access to millions of pages of textual and multimedia content, this leads to an information overload and a problem called infoxication, and Researchers and / or teachers are not the exception when searching for information on educational trends in research. For this reason, we propose a model to search for educational trends using Data Mining techniques, which will allow us to capture, analyze, disseminate and exploit the main topics that are currently being developed on educational trends. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Topic: Social Tagging | Folksonomy | Tag

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Lwin, W.W. , Kham, N.S.M.
(2020) 2020 IEEE 9th Global Conference on Consumer Electronics, GCCE 2020

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 158-167
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

University students' use and preferences of digital technology in the Peruvian highlands

(Conference Paper)

Gallardo-Echenique, E.[a], Anchapuri, M.[b]

[a]Universidad Peruana de Ciencias Aplicadas, Prolongación Primavera 2390, Lima, 15023, Peru
[b]Universidad Nacional del Altiplano Puno, Av. Floral 1153, Puno, 21001, Peru

Abstract

View references (51)

In recent literature, there has been much discussion about student use of digital technology for academic and learning purposes undertaken in most developed countries. However, most of the empirical literature has ignored developing countries like Peru. This paper reports on research into how first-year university students communicate, their general study habits, and how digital technologies are used to support academic activities. A quantitative approach using a descriptive design is proposed for this study. A convenience sample of 201 students from a variety of backgrounds (cultural, social and economic) participated in the study. The findings evidence that learners' technology use in this university is considerably more constrained than "Net generation" discourse suggest. Participants are not making good uses of digital technologies that "work best" for them taking in consideration they were enrolled in online instructional modality. Further investigations are recommended to find out the reasons behind these findings.

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 169-178
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Representation of series and transforms in engineering subject, using a web user interface for GNU octave (Conference Paper)

Huamaní-Navarrete, P.F.

Ricardo Palma University, Lima, Peru

Abstract

View references (10)

This article shows the experience of using a web user interface (UI Web) for GNU Octave, in order to represent mathematically and graphically the Fourier series and transforms that are studied in one of the units of an introductory subject in the telecommunications area, in the Electronic Engineering program from Ricardo Palma University (URP), Lima-Peru. Likewise, we show the development of the programming routines to obtain the Fourier series coefficients of some periodic signals, as well as the graphical representations of them in the frequency domain. Also, with the Fourier Transform, from the discrete point of view, some non-periodic signals were analyzed. Finally, we show the averages of the evaluations obtained in the thematic unit of interest, through a trend graph with a positive slope.

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Application of augmented reality for the development of skills in the communication area

(Conference Paper)

de la Gala, K., Nuñonca, E.H., Vera-Sancho, J., Cisneros-Chavez, B., Valdez-Aguilar, W.

Universidad Nacional de San Agustín de Arequipa, Peru

Abstract

View references (14)

The role of technologies in education is fundamental and is in continuous use today by educational systems as a recreational and educational tool, to improve the management of student learning. Likewise, the integration of Augmented Reality is valued, as an emerging technology with strong application possibilities in the educational field to improve reading comprehension. Therefore, different 3D models are used as an educational resource and are visualized through the Unity and Vuforia software; In the investigation it was achieved that of 27 students at the literal level 59.26% were improved, at the inferential level 44.44% achieved this level and at the critical level 40.74% obtained better results. Therefore, interactive reading is proposed as a strategy to improve skills in the area of communication.

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Application of augmented reality for the development of skills in the communication area

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Universidad Nacional de San Agustín de Arequipa, Peru

Abstract

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The role of technologies in education is fundamental and is in continuous use today by educational systems as a recreational and educational tool, to improve the management of student learning. Likewise, the integration of Augmented Reality is valued, as an emerging technology with strong application possibilities in the educational field to improve reading comprehension. Therefore, different 3D models are used as an educational resource and are visualized through the Unity and Vuforia software; In the investigation it was achieved that of 27 students at the literal level 59.26% were improved, at the inferential level 44.44% achieved this level and at the critical level 40.74% obtained better results. Therefore, interactive reading is proposed as a strategy to improve skills in the area of communication. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Volume 2555, 2019, Pages 202-211
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Analysis of the mathematical Errors of first cycle students of the National University of Piura (Conference Paper)

Velásquez, F.M.[a], Sánchez, J.R.[b], Jiménez, J.L.[a]

[a]National University of Piura, Urb. Miraflores S/N Castilla, Piura, 20002, Peru
[b]University Saint Peter, Av. Francisco Bolognesi 770, Chimbote, 02801, Peru

Abstract

View references (12)

University higher education is not exempt from the manifestation of mathematical errors in learning. The study is non-experimental, descriptive and intended to analyze the mathematical mistakes made by 80 university students of the first cycle of the National University of Piura in the 2014-II and 2015-I semester. The results show a high percentage of errors in cognitive processes in terms of operations: with complex numbers, linear and quadratic equations, with polynomial expressions; translations of the graphic representation of the real line and representation of everyday language in formal language; revealing that most commit themselves due to absences and inaccuracies in the construction of prior knowledge, for not understanding the semantics of mathematical concepts. It is noted that 50% of the students obtained a grade less than or equal to 7.78.

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The impact of the strategic learning achievement program in primary education students in Arequipa (Conference Paper)

Castro-Cuba-Sayco, S.E.[a], Espinoza-Suarez, S.M.[b], Bejarano-Meza, M.E.[c], Martinez-Puma, E.[c], Ramos-Quispe, T.[d], García-Holgado, A.[e]

[a]Universidad Nacional de San Agustín de Arequipa, Peru
[b]TECSUP, Peru
[c]Universidad Católica de Santa María, Peru

View additional affiliations

Abstract

View references (14)

This work aims to determine the relation of the results of the Peruvian national assessment of students that finish the third cycle of compulsory education in the area of mathematics and the knowledge and development of abilities considered at second level in the national assessment of students by the elementary teachers of nine schools under feedback-based monitoring by the Strategic Learning Achievement Program in the Local Educational Management Unit of South Arequipa. According to the results obtained, there is a high correlation between the Educational Quality Exam results and the results of the teachers' test and the observation form applied to the teachers. In light of the results, it is found that the ignorance of the prioritized skills of mathematics in the Peruvian national assessment and the deficient application of strategies by the teacher

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Robotics in first year engineering students: An experience in learning concepts of linear motion (Conference Paper)

Castro-Gutierrez, E., Bobadilla-Chara, S., Mendoza-Pinto, D., Fernandez-Granda, W., Chara-Barreda, C.

Universidad Católica de Santa María, Peru

Abstract

View references (13)

Given the complexity of the learning process, it is a great challenge getting students to be actively involved in it. There is a concern for professors to use new teaching-learning strategies that playfully approach, motivate and increase the attention span of students in the learning sessions. The objective of this study is to use educational robotics (RE) for the teaching of "concepts of particle movement in one dimension". The sample is made up of 69 students of the Physics course of the third semester (second year), of the Professional School of Systems Engineering. The differences found between the pre and post-test of both groups are not statistically significant. From that we conclude that a single learning session is not enough to obtain results similar to the actual values. However, the use of educational robotics "improves the attitude" towards learning in students. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Developing teachers' didactic analysis competence by means of problem-posing (Conference Paper)

Torres, C., Malaspina, U.

Pontificia Universidad Católica del Perú, Peru

Abstract

View references (11)

The study was designed to improve teachers' didactic analysis competence by means of problem-posing tasks. For this purpose, a problem-posing strategy has been implemented which sample consisted in in-service mathematics teachers. This strategy involves a reflection stage that is very close to mathematical practices and it encourages to develop didactic analysis competence. Some findings of our research are related to this competence and it means that the posers could formulate better problems with educational purposes. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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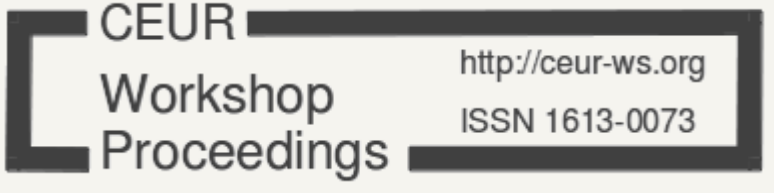

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Effectiveness of the implementation of a web solution in the evaluation of emergency obstetric hemorragy (red key) (Conference Paper)

Arenas-Alarcón, E.[a], Cabrera-Diaz, L.[a], Sulla-Torres, J.[a], Escobedo-Vargas, J.[b]

[a]Escuela Profesional de Ingeniería de Sistemas, Facultad de Ciencias e Ingenierías Físicas y Formales, Universidad Católica de Santa María, Peru
[b]Facultad de Obstetricia y Puericultura, Universidad Católica de Santa María, Peru

Abstract

View references (26)

Aim: Allow online training, evaluation and feedback of Obstetrics students in emergency care: obstetric haemorrhage (red key). Material and methods: an analysis of the current state of the teaching of emergency obstetric haemorrhage was performed in students of the VIII Semester of the Faculty of Obstetrics and Childcare of the Universidad Católica de Santa María, the basic requirements, functionalities and deliverables were based in the SCRUM methodology. A web server, a "Somee" database management system, SqlServer and Visual Studio application development environment were required. The database model was designed based on the emergency learning requirements identifying all the entities, standardization techniques of the tables originated from the entities were applied; necessary information was collected for the records in the tables; The user interfaces were designed, a first level identification page was developed that controls access to the system and differentiation of functions according to the type of user, followed by a search tool that provides the user with a list of obstetric emergencies with keywords. Finally, an evaluation module was developed to analyze student performance. To provide the functionality required to the application, a set of routines were developed that

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Mobile application based on design thinking for teaching kinematics (Conference Paper)

Arbieto-Batallanos, C.E., Villanueva-Montoya, L.D., Chavez-Ponce, D.S., Alfonte-Zapana, R., Córdova-Martínez, M.D.C.
Universidad Nacional de San Agustín de Arequipa, Peru

Abstract

View references (19)

Ignorance of the usefulness of technology makes it challenging to apply innovative strategies in the classroom, accompanied by a thought that educational technology is about introducing more technological devices to the school, and not how to use technological tools for the scope of the teaching/learning process. To these problems, a time circumstance is added since teachers need enough time to update themselves. In recent years some new trends have been emerging and have taken more strength in innovation, fostering new forms of teaching. Their intention in educational centers is to prepare students for a new type of society, which is the information society. For this reason, this work proposes the use of the design thinking methodology for the development of a mobile application, efficient and usable for teaching kinematics, obtaining a favorable result given to the acceptance of a sample of fifth-year students from a high school. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Analysis from the student perspective on the implementation of learning technologies in mining engineering (Conference Paper)

López, P.[a], Rodríguez, J.[a], Acosta, A.[a], Berrios, M.[b]

[a]Escuela Profesional de Ingeniería de Minas, Universidad Católica de Santa María, Arequipa, Peru
[b]Escuela Profesional de Sociología, Universidad Nacional de San Agustín, Arequipa, Peru

Abstract

View references (24)

The emergence of new technologies such as virtual reality, mobile applications, web platforms and holograms are very useful for the development of learning; for this reason this research focuses on knowing the interest of the students of the Professional School of Mining Engineering in relation to the use of these technological learning systems. For this purpose, we used a survey as a measuring instrument based on the external variables of the Technology Acceptance Model 3 (TAM3) and the answers were based on the Likert scale; additionally, the processing and interpretation was carried out using the Statistical Package for the Social Sciences (SPSS). Relationships were established through the Pearson coefficient (r> 0). We identified the interest perceived by the students of the Professional School of Mining Engineering related the implementation and use of technological systems of learning, identifying weak variables such as the Subjective Standard, which refers to the need for help in the use of a learning platform, and the lack of experience in the use of these systems. On the other hand, a web platform is being developed that will satisfy visual and interactive needs of

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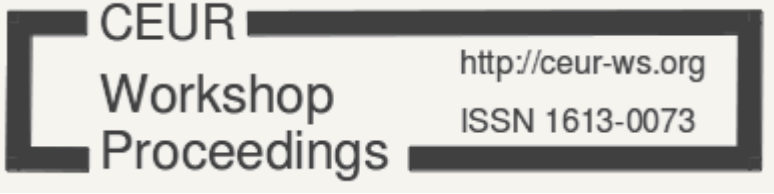

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Role play to develop oral production of the English language in undergraduate engineering students (Conference Paper)

Pacheco-Pumaleque, A.A.[a], Reyes-Carrasco, O.R.[b], Villegas, V.M.A.[b]

[a]Universidad Nacional de Cañete, Peru
[b]Universidad Tecnológica del Perú, Peru

Abstract

View references (21)

This research aimed to develop the oral production of the English language in undergraduate engineering students at a national university. It was based on the need to improve the teaching of oral language production to promote oral ability in students. The research is interpretive paradigm educational. The sample consisted of four teachers and 26 students. Questionnaires and observation were used to collect data in this study. The information was processed and analyzed qualitatively and quantitatively, which allowed the generation of emerging categories. The diagnosis showed that teachers apply strategies that do not promote oral production in students or are contextualized. It is concluded that the scientific contribution of research is the design of the didactic strategy, based on the role play, which will generate a more interactive, contextualized and reflective teaching-learning process.

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Science Teachers perceptions of their Pedagogical Content Knowledge (PCK) (Conference Paper)

Nisperuza, E.F., Salgado, A.G., García, L.M.

Universidad de Córdoba, Montería, Colombia

Abstract

View references (36)

Pedagogical content knowledge (PCK) is a way of representing and formulating knowledge making it comprehensible to others. PCK in science is used as a framework to guide the analysis of evidence about how science teachers' knowledge develops over time. From the literature review, it is shown that the teacher's role lacks specific identity in his exercise. Disregard on the management and use of certain components such as Pedagogical Content knowledge and teaching methods demonstrates that science education is a complex process. The objective of this paper is to study the perceptions of science teachers towards about PCK. The methodology used is qualitative with a phenomenologic approach where the sample consisted by three Natural Science teachers from a Public School of Colombia. This study enabled to recognize an adaptation of the PCK Framework that shows the importance of the science topics contents into the fundamental components of PCK.

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Volume 2555, 2019, Pages 301-310
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Fracpotion : An open educational game to teach fractions in Brazil (Conference Paper)

da Silva, J.P.[a,b], Nogueira, R.[b], Rizzo, G.[b], Silveira, I.F.[a,b]

[a]Mackenzie Presbyterian University, Brazil
[b]Cruzeiro do Sul University, Brazil

Abstract

View references (27)

The areas of Science, Technology, Engineering and Mathematics, called STEM careers, are important fields of knowledge for society nowadays. Among the basics subjects of these careers is Mathematics, but many young students present difficulty to understand very basic mathematical concepts and logical thinking activities. This learning process is very complex and demands a lot of motivation by part of the students. In this sense, educational games can act as an interesting and stimulating helping tool for them. In Brazil, the levels of proficiency on rational numbers in their fractional representation presented by students aged between 9 and 12 years, in general, are low, mainly because in local culture the fractional representation is not common at the daily activities. The educational games to teach this topic in Portuguese are few, so it has motivated us to develop a game to teach fractions entirely in Portuguese language, but able to be adapted to other languages of the region, like Spanish. In this paper, we present such a game, called FracPotion, developed as an Open Educational Resource to teach about fractions to children. The game was experienced by a group of students in an elementary school at São Paulo city, Brazil, and the preliminary results were positive. Copyright © 2019 for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

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Computational thinking and solving problems - An experience with arduino in a electronic engineering career (Conference Paper)

Zegarra, M., Vidal, E.

Universidad Nacional de San Agustín de Arequipa, Peru

Abstract

View references (14)

Computational thinking is a fundamental skill since it helps to improve analytical ability. Computational thinking involves solving problems, designing systems, and understanding human behavior, by drawing on the fundamentals of computer science. Literature has shown different ways to bring to classroom computational thinking. Most of the experiences are related to programming classes with different kind of software according to the age. This paper present and exploratory study that describes our experience related to the first programming course at the University level for teaching computational thinking for solving problems. The use of Arduino to teach computational thinking has been incorporated into the Electronic Engineering degree at the Universidad Nacional de San Agustín de Arequipa since 2017. Students program components oriented to solve problems related to their profession. The first results have shown the effectiveness in the use of Arduino to develop computational thinking. This first experience gave us the foundation to expand our research to analyze quantitative data regarding to student outcomes about solving problems. We believe that our experience can be replicated not only in other Electronic Engineering careers, but in any engineering that have programming courses. We also believe that our experience could be replicated at a high school level.

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 319-328
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Production model of virtual reality learning environments (Conference Paper)

Aguiñaga, G.O.[a], Reyes, H.C.[b], Mendoza, J.E.G.[c], Artega, J.M.[c]

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[c]Autonomous University of Aguascalientes, Av. Universidad #940, Cd. Universitaria, Aguascalientes, 20131, Mexico

Abstract

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Learning environments integrate multiple technology platforms allowing people to meet learning objectives through available content, resources, and integrated services. Learning environments allow users to cover learning objectives in different subject areas, such as social skills development, health, etc. This article presents a development model of Learning Environments through Virtual Reality (VR). This model incorporates new forms of interaction for learning, such as immersion in simulated scenarios that support users in attaining learning objectives. A VR tour of a university is presented as a case study, where distinct users, such as teachers, students, and general public interact with content, resources available and services to achieve the specific learning objectives.

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Cardona-Reyes, H. , Guzman-Mendoza, J.E. , Ortiz-Aguiñaga, G.
(2020) Communications in Computer and Information Science

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 330-339
2019 International Congress on Educational and Technology in Sciences, CISETC 2019; Arequipa; Peru; 10 December 2019 through 12 December 2019; Code 157634

Didactic Sequence for the development of variational thinking of university engineering students

(Conference Paper)

Ecos Espino, A.M.[a], Núñez, J.H.[b], Manrique Chàvez, Z.R.[c]

[a]Universidad Nacional de Moquegua, Ilo, Peru
[b]Universidad Nacional Micaela Bastidas de Apurímac, Abancay, Peru
[c]Universidad Nacional Intercultural de la Amazonia, Pucallpa, Peru

Abstract

View references (20)

This article is about the effect of a didactic sequence on the development of the variational thinking of university students entering engineering careers. For this purpose, an applied research was carried out with a quasi-experimental design. They were handled with 104 civil engineering students distributed in three groups: one of control (43) and two experiments (40 and 21) of a population of 329 students. For data collection, a questionnaire was designed and validated with 05 items related to the analysis of functions as representation models of variation and change. The methodology of the didactic sequence was based on variational activities carried out in 7 sessions with the experimental groups, while the traditional teaching methodology was used in the control group. The achieved results showed that there was significant influence of the didactic sequence in the development of the variational thinking of the students.

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Espino, A.E. , Nunez, J.H. , Chavez, Z.M. *(2020) Proceedings of the 2020 IEEE International Symposium on Accreditation of Engineering and Computing Education, ICACIT 2020*

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 341-349
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Identification of strategic activities in the process of adoption of the methodology by cases applied to the students of the accounting course for the improvement of their academic performance, Arequipa, 2019 (Conference Paper)

Ramírez-Lazo, P.C.[a], Medina-Carpio, O.C.[b], Acobo-Moreno, K.V.[a]

[a]Universidad Continental, Arequipa, Peru
[b]Universidad Católica de Santa María, Arequipa, Peru

Abstract

View references (14)

This work was focused on identifying the strategic cycle for the application of the methodology by cases in administration students; for this an evaluation was carried out with the methodology to capture perceptions and gathering of relevant information where criteria were identified to propose a new route of strategic case-based learning in order to improve assertive performance, expertise and debatability in students. The research identified that only 2% are dissatisfied with the application of the methodology and more than 81% would like it to be implemented in their final evaluations. However, 76% believe that there should be improvements, in the same way in that the gathering of information identified is important to carry out a simulation of the experience and consider preparation and evaluation as a risk factor for its adoption in relation to the performance of the teaching moderator. The strategic cycle identified has a high preference for students, this could be implemented after improving some points.

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CEUR Workshop Proceedings
Volume 2555, 2019, Pages 362-371
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Smartphone in school physics: A case study for the experimental obtaining of the acceleration of gravity in the analysis of a spring through a didactic approach (Conference Paper)

Alé, J.A.S.

Departamento de Educación, Universidad de Chile, Santiago, Chile

Abstract

View references (16)

In order to meet the demands of curricular updates, this article proposes an advance towards the design of curricular integration guidelines for mobile learning in school mechanics. It emphasizes those objectives associated with the processes and scientific research skills of second year of secondary education (students between 14 and 15 years old), according to the Chilean school organization. For the development of the guidelines, various didactic case studies have been provided that facilitate mobile curricular integration in the processes associated with research through collaborative dynamics centered on the student. Specifically, the results of one of the didactic case studies implemented in two courses during the year 2019 in schools in the Metropolitan Region of Chile are exposed and analyzed. This study addresses introductory phenomena to the study of Newtonian mechanics with springs through collaborative experimentation with the use of smartphones to obtain transversely an approximate value of the acceleration of gravity.

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(2018) IOP Conference Series: Materials Science and Engineering