

Εισηγήσεις σε πρακτικά διεθνών συνεδρίων με έκδοση ISBN ή ISSN

[1]

- 1) Psani, A., Daliani, V., & Kotsifakos, D. (2020, September). Web-Based Personalized Diagnostic Evaluation for the Apprenticeship through Gamification. In *2020 5th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)* (pp. 1-6). IEEE.

Electronic ISBN:978-1-7281-6445-8

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Web-Based Personalized Diagnostic Evaluation for the Apprenticeship through Gamification

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Aglaia Psani; Victoria Daliani; Dimitrios Kotsifakos | All Authors

43 Full Text Views

Abstract

Document Sections

I. Introduction

II. Diagnostic Evaluation For the Apprenticeship Through Gamification

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Figures

References

Keywords

Metrics

Abstract:

The aim of this article is to present an example of a diagnostic evaluation for the specialty of Informatics in the 4th post-secondary year - Apprenticeship. This diagnostic assessment focuses on whether basic concepts about web design have been assimilated by apprentices in their previous years of study, since the knowledge of internet technologies and knowledge of the construction and maintenance of websites or other online forms is considered one of the most necessary for those graduating from Vocational Education and Training. The recording of the percentage of previously acquired knowledge is done individually, through gamification techniques

Published in: 2020 5th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)

Date of Conference: 25-27 September 2020

Date Added to IEEE Xplore: 13 October 2020

INSPEC Accession Number: 20055587

DOI: 10.1109/SEEDA-CECNSM49515.2020.9221780

Publisher: IEEE

Conference Location: Corfu, Greece

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[2]

- 2) Vrysouli, N., Kotsifakos, D., Dossis, M., & Douligeris, C. (2021, September). STEAM in VET-An ArcGIS StoryMap Approach. In *2021 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)* (pp. 1-8). IEEE.

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STEAM in VET - An ArcGIS StoryMap Approach

Publisher: IEEE | Cite This | PDF

Nikol Vrysouli ; Dimitrios Kotsifakos ; Michael Dossis ; Christos Douligeris | All Authors

26 Full Text Views

Abstract

The subject of this article is the presentation of an original and innovative Vocational Education and Training (VET) student project on the Architectural Gems of the Historical Center of Athens. The teaching, which was organized in the 2018 – 2019 school year, is part of the broader Science, Technology, Engineering, Arts & Mathematics (STEAM) interdisciplinary framework. The student's project combines Architectural Engineering, Topography - Geoinformatics, Information and Communication Technologies (ICT), History, and Artistic expression through multimedia. In this paper, the value of student-based inquisition and learning are presented relatively to STEAM education together with the use of innovative web applications.

Published in: 2021 6th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)

Date of Conference: 24-26 September 2021 | INSPEC Accession Number: 21387988

Date Added to IEEE Xplore: 18 October 2021 | DOI: 10.1109/SEEDA-CECNSM53056.2021.9586236

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Published: 2004

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[3]

3) Kotsifakos D., Kostis, B., and Douligeris C., (2018, September). A case study of a laboratory experimental process in Vocational Education Training (VET). In 2018 South-Eastern European Design Automation, Computer Engineering, Computer Networks and Society Media Conference (SEEDA_CECNSM) (pp. 1-8).

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A case study of a laboratory experimental process in Vocational Education Training (VET)

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Kotsifakos Dimitrios ; Bill Kostis ; Douligeris Christos [All Authors](#)

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Abstract

Abstract:
By utilizing data derived from a temperature fluctuation experiment, this article presents and investigates the in-classroom use potential and the computational capabilities of the latest versions of the modern software suites LabVIEW and SPSS. Following the detailed recording of the measurements related to the basic process of heat transfer through metallic objects and the statistical analysis of the experimental measurements, we present the calculations and the results as well as an evaluation of present-day computational tools and their future laboratory use for Vocational Education and Training (VET).

Published in: 2018 South-Eastern European Design Automation, Computer Engineering, Computer Networks and Society Media Conference (SEEDA_CECNSM)

Date of Conference: 22-24 Sept. 2018 **INSPEC Accession Number:** 18288912

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Document Sections

- » Introduction
- II LABVIEW AND THE EXPERIMENTAL PROCESS
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- IV Methodology evaluation
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Published: 2010

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[4]

4) Kotsifakos, D., and Douligeris, C. (2019, February). Updating the directions and didactic approaches of the specialty of electronics: How do the fields of study of the specialty contribute to the development of the 21st century scientific innovations and what should be the principles of today's curriculum? In AIP Conference Proceedings (Vol. 2075, No. 1, p. 180012).

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AIP Conference Proceedings 2075, 180012 (2019); <https://doi.org/10.1063/1.5091409>

Dimitrios Kotsifakos^{1,a)} and Christos Douligeris^{1,b)}

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5) Kotsifakou, K. M., Kotsifakos, D., & Douligeris, C. (2022, March). Neural Network for Spam Recognition in Short Message Services as an Instructional Application for Students of Vocational Education and Training. In *2022 IEEE Global Engineering Education Conference (EDUCON)* (pp. 1405-1412). IEEE.

Electronic ISBN:978-1-6654-4434-7

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Neural Network for Spam Recognition in Short Message Services as an Instructional Application for Students of Vocational Education and Training

Publisher: IEEE Cite This PDF

Kontilenia Maria Kotsifakou ; Dimitrios Kotsifakos ; Christos Douligeris All Authors

25 Full Text Views

Abstract

The education of Vocational Education and Training (VET) students on various topics related to the programming of personalized electronic devices beyond a strong theoretical foundation requires a broad hands-on experience as well. This paper proposes such a hands-on didactic application that can be integrated with the design of the extension of the curriculum of the Speciality "Technical Applications of Informatics" for the course "Computer Programming" of the Greek VET educational system. In particular, this paper explores how a program that identifies unsolicited (spam) Short Message Services (SMSs) using modern Natural Language Processing (NLP) techniques can be integrated into the teaching practice. First, we cover the theoretical background for the necessity of the intervention and the overall framework that is required to understand and ensure the correctness of the techniques used. Then, we demonstrate how the implementation of an artificial neural network can be used effectively to solve this particular problem. To achieve all the above, we have designed and proposed a teaching scenario that on the one hand approaches the new advanced communication technologies, and, on the other hand, operates within the cognitive limits of secondary technical education.

Published in: 2022 IEEE Global Engineering Education Conference (EDUCON)

Date of Conference: 28-31 March 2022 INSPEC Accession Number: 21744744

Date Added to IEEE Xplore: 11 May 2022 DOI: 10.1109/EDUCON52537.2022.9766733

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Electronic ISBN: 978-1-6654-4434-7 Conference Location: Tunis, Tunisia

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[6]

6) Kotsifakos, D., Almalis, N., Adamopoulos, P., Douligeris, C., (2017). Web-based Services to Support the Vocational Education and Training Apprenticeship. Proceedings of the ACM SouthEast European Design Automation, Computer Engineering, Computer Networks and Social Media Conference, ACM SEEDA-CECNSM '17, Kastoria, 23 – 25 September, Greece, (Pages 58 – 65). <http://ieeexplore.ieee.org/document/8089995/>

IEEE ISBN: 978-618-83314-0-2.

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Web-based services to support the vocational education and training apprenticeship

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Dimitrios Kotsifakos; Nikolaos Almalis; Panagiotis Adamopoulos; Christos Douligeris [All Authors](#)

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Abstract

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- II. Modern VET Status-Apprenticeship Operation Context-Legislation
- III. Pareto Spread Metric-Real UML - Fodra Algorithm
- IV. Characteristic Class Diagram (UML - Modelling)
- V. Characteristic Sequence Diagrams (UML - Modelling)

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Abstract:

This article aims to present a strategy to properly distribute the graduates to complete a fourth year of after-Lyceum apprenticeship in the specialized field of Vocational Education and Training (VET) as it is implemented in Greece. The theoretical solution of the issue is presented, as well as the terms and conditions that should be met in order to create an on-line platform capable of organizing and presenting the best distribution of graduates. Finally, we designed, programmed and created on-line platform to achieve the best possible of Vocational Lyceum graduates to particular apprenticeship positions offered by companies.

Published in: 2017 South Eastern European Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)

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INSPEC Accession Number: 17333647

DOI: 10.23919/SEEDA-CECNSM.2017.8089995

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[7]

7) Kotsifakos, D., Kostis, B., Douligeris, C. (2017, April). Science, technology, engineering and mathematics (STEM) for vocational education in Greece. In Global Engineering Education Conference (EDUCON), 25-28 April 2017, Athens, Greece. IEEE (pp. 1831-1836) Electronic ISSN: 2165-9567. <http://ieeexplore.ieee.org/abstract/document/7943099/>

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Science, technology, engineering and mathematics (STEM) for vocational education in Greece

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Abstract

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- » Stem — IEL — LMS
- » Variables for the Four Phases
- » Future Work-Conclusions

Abstract:

The purpose of this article is to investigate how to design and organize Science, Technology, Engineering and Mathematics (STEM) courses for students of Technical Vocational Education and Training (TVET). Our work has been triggered by the fact that the Greek government following European standards for training has enacted a two-hour STEM course for the first class of the technical high schools. Through an enriched learning environment, we analyze the teaching mechanisms as well as the actions that should be implemented with the intention of supporting vocational educational students to acquire the best preparation for the STEM courses. We present several learning strategies that utilize educational technologies in order for the students and the teachers of TVET to achieve the optimum adaptation.

Published in: 2017 IEEE Global Engineering Education Conference (EDUCON)

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[8]

8) Kotsifakos, D., Adamopoulos, P., Douligeris, C., (2016). Design and Development of a Learning Management System for Vocational Education. Proceedings of the SouthEast European Design Automation, Computer Engineering, Computer Networks and Social Media Conference, SEEDA-CECNSM '16, (Kastoria, 25 – 28 September, Greece) (Pages 110-117), ACM, New York USA, <http://doi.acm.org/10.1145/2984393.2984413> ISBN: 978-1-4503-4810-2

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[9]

9) Kotsifakos D., Karvounidis T., Douligeris C. (2015). A Metacognition Approach in The Teaching of Web Technologies. 8th annual International Conference of Education, Research and Innovation. Proceedings of ICERI2015 Conference. 16-18 November 2015, Seville Spain. (Pages 6451- 6461). <https://library.iated.org/publications/ICERI2015>. ISBN: 978-84-608-2657-6/ ISSN: 2340-1095

IATED ISBN: 978-84-608-2657-6/ ISSN: 2340-1095

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Εισηγήσεις σε πρακτικά διεθνών συνεδρίων με έκδοση ISBN ή ISSN

[10]

10) Kotsifakos, D., Makropoulos G., and Douligeris C., (2019) Teaching Internet of Things (IoT) in the Electronics Specialty of Vocational Education and Training (VET). 4th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference in collaboration with the Institute of Electrical and Electronics Engineers (IEEE). SEEDA-CECNSM 2019 Organizing Committee, University of Piraeus, Department of Informatics. <https://seeda2019.unipi.gr/>

Publisher: IEEE Electronic ISBN:978-1-7281-4757-4

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Teaching Internet of Things (IoT) in the Electronics Specialty of Vocational Education and Training

Publisher: IEEE [Cite This](#) [PDF](#)

Dimitrios Kotsifakos; Giorgos Makropoulos; Christos Douligeris [All Authors](#)

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II. Taxonomy of simple sensors

III. Related work

IV. Methodology Evaluation:
Suggested Scenario
Teaching Approach

V. Methodology Evaluation:
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Abstract:

The new curricula of the electronics specialty, either in formal secondary education (3rd class of vocational high schools) or in non-formal classes (apprenticeship in VET), will use and study sensors operating in IoT environments. Since the operating standards of the Internet of Things (IoT) sensors are totally different from the basic types of sensors currently taught in the specialties of VET, this article studies this curriculum transition. In particular, a new updated method of teaching sensor technologies in Vocational Education and Training (VET) in Greece, based on the perspective of IoT, is presented. The proposed scenario consists of a theoretical approach as well as of a laboratory practice with equipment supporting the IoT framework.

Published in: 2019 4th South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)

Date of Conference: 20-22 Sept. 2019

Date Added to IEEE Xplore: 21 November 2019

DOI: 10.1109/SEEDA-CECNSM.2019.8908384

Publisher: IEEE

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[11]

11) Kotsifakos, D., Adamopoulos, P., Kotsifakou, P., & Douligeris, C. (2020, April). Vocational education and training apprenticeship: Using teaching and learning analytics in a learning management system for improved collaboration, individual empowerment and development of apprentices. In *2020 IEEE Global Engineering Education Conference (EDUCON)* (pp. 1775-1782). IEEE.

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Vocational Education and Training Apprenticeship: Using Teaching and Learning Analytics in a Learning Management System for improved Collaboration, Individual Empowerment and Development of Apprentices

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Dimitrios Kotsifakos; Panagiotis Adamopoulos; Paraskevi Kotsifakou; Christos Douligeris [All Authors](#)

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Abstract

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II. Introduction For Apprenticeship In Vocational Education and Training In Greece

III. Tla In Vet

IV. Teaching and Learning Analytic'S Methodology Inside the Lms

V. Ease of Use For Teaching Analytics

Abstract:

The Vocational Education and Training (VET) curriculum aims to provide students with the necessary skills to make them employable and successful in their specialties. Therefore, an increasing number of VET curricula are employing various resources to equip students with 21st century skills such as critical thinking, creativity, communication, collaboration, and information literacy. In this paper, we explore the key dimensions of active learning for empowering and enriching Collaboration, Individual Empowerment, and Development of the apprentices' learning processes through Teaching and Learning Analytics (TLA) in a Learning Management System (LMS) for VET apprenticeships. We describe in detail "how TLA can "work" in a VET environment, and we present how we organize the TLA methodology inside the proposed LMS.

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