# Proceedings Of 9<sup>th</sup> International Conference on Green Computing and Engineering Technologies

# (ICGCET<sup>®</sup>)

27 - 28 September 2023

Radisson Blu Hotel Waterfront, Cape Town, South Africa

**Proceeding Editors:** 

Bishwajeet Pandey, Arthur James Swart

### Chair Message

As a chair, we have the honor to welcome you with great respect and enthusiasm to the 9<sup>th</sup> International Conference on Green Computing and Engineering Technologies (ICGCET®) to be held in Hybrid Mode on 27-28 September 2023 (ONLINE for participant who unable to come to South Africa). ICGCET'2023 intended to attract innovative technical and scientific work in the field of science, technology and engineering. The response to the conference was overwhelming and we are proud to state that we have received really good quality contributions and we are sure as a participant you will share the same sentiment. All accepted papers will be submitted to either SCOPUS or WOS-ESCI Index Journal (see list on conference website) and hopefully these papers will be available online by end of 2023.

As a chair and on behalf of the organizing committee, we are extremely happy to host you at South Africa and we are working to provide you a memorable hospitality as you are coming from different parts of the world to share and contribute in the areas of their expertise. We hope to provide a good platform to the participants, where not only they meet and share their vision, ideas but also fertilize their thoughts in the ever-growing area of computer science and electronics engineering technologies. We are also confident that our keynote speakers will be able to enrich your knowledge during the conference.

It is the 28<sup>th</sup> conference hosted by Gyancity Research Consultancy in association with partner university across the globes, next two conference in 2022-2023 are following:

3<sup>rd</sup> IEEE International Conference on AI in Cybersecurity (ICAIC), 7-9 February 2024 University of Houston, 4800 Calhoun Rd, Houston, TX 77004 <u>https://icaic.gyancity.com/</u>

4<sup>th</sup> International Conference On Business, Management, Emerging technologies, and Social Science 2024 (BMESS-2024), 23-25 May 2024 Herzen State Pedagogical University, St Petersburg, Russia https://gyancity.com/bmess/

Best wishes. **Prof Dr Arthur James Swart** Central University of Technology, South Africa **Prof Dr Bishwajeet Pandey,** Jain University, India

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Email: <a>imces@gyancity.com, <a>dr.pandey@ieee.org, <a>aswart@cut.ac.za</a>

### ICGCET-2023 Schedule

### 27 September 2023 (OFFLINE PRESENTATION)

#### 10:00-10:30 AM (South Africa Time)

• Inaugural Speech: General Chair Prof Dr. Arthur James Swart, Central University of Technology, South Africa

10:30-12:30 (South Africa Time)

• Session 1: Chair: Prof Dr. Johan Raath, Central University of Technology, South Africa

Paper Id: 326, 1437, 2325, 4839, 5244, 9131

**12:30-13:00** (South Africa Time)

Keynote Speech by Prof Dr. Parin Somani, London Organisation of Skills Development, London, United Kingdom

13:00-14:00 (South Africa Time) LUNCH

14:00-16:00 PM (South Africa Time)

- Hybrid Session 2: Chair: Prof Dr. Arthur James Swart, Central University of Technology, South Africa
- https://meet.google.com/fte-fmbn-xvs

Paper Id: 1976, 2057, 2129, 2307, 5777, 6284, 7268, 7291, 7502, 9872

### **28** September 2023 (ONLINE PRESENTATION)

Video Presentation:

Available 24x7 on YouTube Channel of Gyancity Research Lab: https://www.youtube.com/channel/UCHtdIuXB1evhmQb3zQ82uCA

#### **9:00-11:00** (South Africa Time)

Satellite Session Google Meet Link: meet.google.com/zik-xman-amn Paper Id: 2765, 4307, 7636, 7822 Chaired by **Prof Dr. Bishwajeet Pandey, Jain University, India** 

# ICGCET'2015: 1st International Conference of Gyancity at Dubai, UAE



# RTCSE'16: 2<sup>nd</sup> International Conference of Gyancity at Kuala Lumpur, Malaysia



## ICGCET'2016: 3<sup>rd</sup> International Conference of Gyancity at Aalborg University, Esbjerg, Denmark

### Institut i Esbjerg samler forskere fra hele verden

DEL f Y Af Edmund Jacobsen 15. august 2016 kl. 05:31 40 forskere og studerende fra hele verden samles på Institut for Energiteknik, Aalborg Universitet Esbjerg, i tre dage i denne uge, når der afvikles en international konference, der handler om at gøre D.M. Akbar Hussain, lektor ved Institut for computerteknologi mere Energiteknik på Aalborg Universitet Esbjerg. grøn. har sammen med en kollega fra Indien arrangeret konferencen International Conference on Green Computing and Engineering Technologies.

Det er planen, at disse konferencer skal afvikles i Esbjerg hvert andet år – ganske enkelt fordi Institut for Energiteknik i Esbjerg er internationalt anerkendt.



# RTCSE'17: 4<sup>th</sup> International Conference of Gyancity at Kuala Lumpur, Malaysia



# IMCES'17: 5<sup>th</sup> International Conference of Gyancity at Kuala Lumpur, Malaysia





# ICGCET'2018: 6<sup>th</sup> International Conference of Gyancity at Limerick, Ireland



# RTCSE'2018: 7<sup>th</sup> International Conference of Gyancity at Bangkok, Thailand





# ICGCET'18: 8th International Conference of Gyancity at Aalborg University, Esbjerg, Denmark





# RTCSE'2019: 9<sup>th</sup> International Conference of Gyancity at University of Hawaii, USA



# IMCES'2019:10<sup>th</sup> International Conference of Gyancity at Port Louis, Mauritius



# ICGCET'2019: 11th International Conference of Gyancity at Casablanca, Morocco



# RTCSE'2020: 12<sup>th</sup> International Conference of Gyancity at University of Hawaii, USA





# IMCES'2020: 13<sup>th</sup> International Conference by Gyancity at Jakarta, Indonesia

# ICGCET'2020: 14<sup>th</sup> Conference by Gyancity at St Petersburg, Russia



Jammu, September 18: Dr. Amit Kant Pandit, Faculty, SoECE, SMVDU chaired an online session in 6th International Conference on Green Computing and Engineering Technologies (ICGCET®).

The international conference is scheduled from 16th-18th September 2020 at Herzen State Pedagogical University, St Petersburg, Russia. The traditional face-to-face meeting was replaced by the online meeting due to a pandemic situation. The first online session was conducted through CISCO WebEx app.

Dr. Pandit along with co-chair Dr. Bishwajeet Pandey, Birla Institute of Applied Sciences, Bhimtal Uttarakhand, and associated with Gyancity Research consultancy conducted the first session and an introductory talk.

The attendees across the world presented their work through an online meeting and recorded video presentations. The presentation and other videos are uploaded for public viewing on YouTube channel for wider academic sharing.

The convener of the conference Prof. Jason Levy, University of Hawaii, USA. Prof. Geetam S Tomar, Director Birla Institute of Applied Sciences, Bhimtal, India, congratulated on the successful organizing of the session.

Dr. Amit Kant Pandit thanked coordinators for arranging such academic meetings in difficult times



#### SMVDU Faculty chairs Online Session at 6th International Conference on ICGCET

#### JAMMU BULLETIN NEWS KATRA, SEP 18:

Dr Amit Kant Pandit, Faculty, SoECE, SMVDU chaired an online session in 6th International Conference on Green Computing and Engineering Technologies (ICGCET®) today. The international conference is scheduled from 16th-18th September 2020 at Herzen State Pedagogical University, St Petersburg, Russia. The traditional face-to-face meeting was replaced by the online meeting due to a pandemic situa tion. The first online session was conducted through CISCO WebEx app.Dr. Pandit along with co-chair Dr. Bishwajeet Pandey, Birla Institute of Applied Sciences, Bhimtal Uttarakhand, and associated with Gyancity Research consultancy conducted the first session and an introductory talk. The attendees across the world presented their work through an online meeting and recorded video presentations. The presentation and other videos are uploaded for public viewing on YouTube channel for wider academic sharing. The convener of the conference Prof. Jason Levy, University of Hawaii, USA. Prof. Geetam S Tomar, Director Birla Institute of Applied Sciences, Bhimtal, India, congratulated on the successful organizing of the session. Dr. Amit Kant Pandit thanked coordinators for arranging such academic meetings in difficult times

# RTCSE'2021: 15th International Conference of Gyancity at University of Hawaii, USA



### BMESS'2021: 16th Virtual Conference by Gyancity

### IMCES'2021: 17th International Conference by Gyancity at Yarsi University, Indonesia



## ICGCET'2021: 18th International Conference by Gyancity at National University of Federico Villareal, Lima, Peru

Evento se dará el 22 y 23 de septiembre. Foto: difusión



La República Jarepublica\_pe ediciondigital@glr.pe

16 Set 2021 | 12:40 h Actualizado el 16 de Setiembre 2021 | 12:40 h

Este 22 y 23 de septiembre se realizará la 7ª Conferencia Internacional sobre Tecnologías de Ingeniería y Computación Ecológicas 2021 (ICGCET-2021) y la 13ª Conferencia Internacional en Inteligencia Computacional y Redes de Comunicación 2021 (CICN 2021), eventos que tendrán como sede a la Universidad Villareal (UNFV).

Juan Alfaro, rector de la UNFV, será el encargado de inaugurar los referidos certámenes, el miércoles 22 a las 10.00 a.m. Previamente, Akbar Hussain, de la Universidad Aalborg de Dinamarca, será el encargado de brindar las palabras de bienvenida.

La ICGCET-2021 presentará las investigaciones de diferentes áreas de la ciencia y la tecnología, y proporcionará una plataforma para que investigadores y científicos de todo el mundo intercambien y compartan sus experiencias y resultados de investigación.

### La República

ÚLTIMAS NOTICIAS POLÍTICA ECONOMÍA SOCIEDAD MUNDO DEPORTES ESPECTÁCULOS REL

EN VIVO - Emmy 2021: sigue aquí la premiación a lo mejor de la TV y el streaming

#### NOTAS DE PRENSA

#### Conferencias internacionales se desarrollarán en Universidad Villarreal

Cada evento contará con la participación de destacados expertos de la investigación.



# ICGCET'2021: 18th International Conference by Gyancity at National University of Federico Villareal, Lima, Peru





# RTCSE'2022: 19th International Conference of Gyancity at University of Hawaii USA



### BMESS'2022: 20th International Conference by Gyancity at Bath Spa University UAE





### ICAIC'2022: 21st International Conference by Gyancity at University of Houston-Victoria, USA





# IMCES'2022: 22<sup>nd</sup> International Conference by Gyancity at Aalborg University, Esbjerg, Denmark



### ICGCET'2022 GROUP PHOTO: 23r<sup>d</sup> International Conference of Gyancity at Mauritius



# RTCSE'2023 GROUP PHOTO: 24th International Conference of Gyancity at University of Hawaii USA



# ICAIC'2023 GROUP PHOTO: 25th International Conference of Gyancity at University of Houston-Victoria, USA



# BMESS'2023 GROUP PHOTO: 26th International Conference of Gyancity at Bath Spa University, UAE



### IMCES'2023: 27<sup>th</sup> International Conference by Gyancity at Yarsi University, Jakarta, Indonesia



Abstract o	f Paper Accepted in ICGCET'2023		
326	Development of an Artificial Intelligence Deep		
	Neural Network for the Identification of		
	Individual Animals		
PS Veldtsman, BJ Kotze			
	CUT, Free State		
	<u>pveiaism@cui.ac.za</u> , <u>bkoize@cui.ac.za</u>		
ABSTRACT			
	Monitoring of individual animals and their feeding habits can pose a challenge to farmers to prevent under- or overfeeding of individual animals. A system that can identify individual animals and allows feeding or medicating of a specific animal will increase productivity, profitability and animal condition. The objective of the research is the development of an automated system, making use of video and image processing techniques, as well as deep learning neural networks, to identify individual animals. Using Matlab <sup>®</sup> , Python and Google Colab the principles of neural networks (NN) and Artificial Intelligence (AI) learning was tested and evaluated on a personal computer and will later be implemented on suitable portable hardware. Results will be verified and the suitability for such a project will be tested and judged by evaluating the accuracy of the recognized images. Initial tests indicated that an Artificial Neural Network (ANN) proved to be sufficient and could be run on compact hardware such as the NVIDIA Jetson Nano. A small amount of learning material could be used and proofed to be successful in identifying cattle heads on such a device		
	<b>Keywords:</b> deep learning neural networks, animal feeding, animal identification, video and image processing techniques, Artificial Intelligence, NVIDIA, Jetson Nano		

Abstract of	<sup>a</sup> Paper	Accepted	in ICGCET'2023

1437	Creating individualistic memorandums to
	mitigate academic dishonesty in online
	assessments – a case study
	Raath, Johan & Arthur J. Swart Central University of Technology, Bloemfontein, Free State, South Africa jraath@cut.ac.za & aswart@cut.ac.za
	ABSTRACT
	Student academic dishonesty has risen significantly around the globe, and especially so during the recent global pandemic which has forced institutions to offer courses online with little or no control over the quality of their assessments. The purpose of this article is to explain the process of how to design and implement individualistic memorandums that are tailored to each student attempting an online assessment that may help mitigate academic dishonesty. A case study is used focusing on a module in Electrical Engineering that focuses primarily on mathematical calculations. Four objectives are discussed with regard to the process, including the objective of adding credibility to the assessment process by effecting a unique set of answers for each assessee, thus hampering the sharing/copying of answers between assessees. It is recommended that academics continue to use educational technologies in their assessment of student learning, but doing so in a way that mitigates academic dishonesty, simplifies the marking of the assessment, and enables timely feedback to all students.
	<b>Keywords:</b> Academic misconduct, cheating, copying, unethical behaviour, timely feedback

Abstract o	f Paper Accepted in ICGCET'2023
1976	Procrastination in high school students in times of COVID-19, Lima-Perú: A psychological respective
	Edgar Salvador Inciso Mendo <sup>1</sup> , Gilberto Luis-Mamani <sup>2</sup> , Jose Jeremias Caballero Cantu <sup>3</sup> , Juan Méndez Vergaray <sup>4</sup> , Mercedes Evangelina Lopez Almeida <sup>5</sup>
	<sup>1,2,3,4,5</sup> Universidad César Vallejo, Lima, Perú
	edgarminsa@hotmail.com <sup>1</sup> , lmg17020@gmail.com <sup>2</sup> , josecaballeroc94@gmail.com <sup>3</sup> , jmvevaluations@hotmail.com <sup>4</sup> , mlopezal@autonoma.edu.pe <sup>5</sup>
	ABSTRACT
	Objective: To measure the degree of procrastination and the reasons why high school students from an educational institution in the district of San Juan de Lurigancho procrastinated in times of pandemic. Methodology: Quantitative, comparative and relational with cross-sectional design. A total of 377 students of both sexes from 2nd to 5th year of secondary school participated in the study. Results: The association between sex and procrastination showed that females tend to procrastinate more (64.7%) than males (47.9%); although in both cases the tendency to procrastinate is medium. However, the high comparison is also related to females. Of the total number of students, 56.2% tend to medium procrastination. The association of Grade and procrastination showed that Grade 3 students tend to higher procrastination (63.3%) than the other grades. 56.2% tend to medium procrastination. Conclusions: Females tend to procrastinate more than males due to lack of energy and self-control and low assertiveness and confidence. Grade 3 students procrastinate more than the other grades and there are significant differences in academic procrastination between these groups.
	procrastination.

Abstract of	f Paper Accepted in ICGCET'2023				
2057	Technical and economic efficiency in native potato production in the Apurimac region				
	Salvador Quispe Chipana <u>,</u> Rosa Huaraca Aparco <sup>2</sup> <sup>1,2</sup> Universidad Nacional José María Arguedas <u>rhuaraca@unajma.edu.pe</u> <sup>1</sup> , <u>ssalvador@unsaac.edu.pe</u> <sup>2</sup>				
	ABSTRACTThe objective of this work was to evaluate the technical and economic efficiency in the production of native potato (Solanum tuberosum L) in the Kishuara district, Andahuaylas province, Apurímac region in the 2018-2019 agricultural campaign. At the theoretical level, while technical efficiency is aimed at achieving the maximum possible production with the available resources, and economic efficiency is aimed at minimizing input costs. At the same time, the hypothesis was that technical and economic efficiency are 				
	Production Function; Econometric Model; Production Elasticity.				

ADSTRACT O	r Paper Accepted in ICGCET 2023
2129	Ability to elaborate essays in secondary students of Regular Basic Education
	Mary Cruz Hernandez Aguilar, Juan Méndez Vergaray, Pedro Prado Lozano Luis, Vladimir Codarlupo Dávalos, Juan Henrry Añanca Rojas.
	César Vallejo University, Lima, Peru
	<b>ABSTRACT</b> The present study corresponds to a scientific article regarding the competence to produce written texts type academic essay in students of regular basic education aimed to describe the level of production of written texts type essay in students of an educational institution of Regular Basic of Ica-Peru. The research was developed from the quantitative approach and the typology of simple descriptive research the sample was constituted by 90 students of the fifth grade of secondary of the regular basic education was used as an evaluation instrument the evaluation sheet of the ability to elaborate argumentative essays with a total of 15 items the qualification of each of the essays was carried out in a collegial manner through the intervention of teachers of the Areas of Social Sciences and Communication. The results reflect that a high percentage of students equivalent to 72% have reached the level of process regarding their ability to produce essays this means that students are close to or close to the expected level regarding the ability to prepare essays. <b>Keywords:</b> Writing skills, academic essays, students.
	Keywords: Writing skills, academic essays, students.

### Abstract of Danar Accortad in ICCCET/2022

ADSUId	ci ol Papel Accepted III ICGCET 2025
2307	Integrating AI with Green Internet of Things in healthcare for achieving UN's SDGs Dr. Gasim Alandjani Computer Science and Engineering Department Yanbu Industrial College
	alandjanig@rcyci.edu.sa, https://orcid.org/0000-0003-0321-7013
	ABSTRACTThe integration of the Green Internet of Things (Green-IoT) and ArtificialInternet of Things (Green-IoT) and ArtificialIntelligence (AI) in healthcare has the potential to revolutionize a wide range ofindustries, including healthcare wherein Green-IoT-connected medical devices andwearables can collect health data, which can be analyzed by AI algorithms to improvepatient outcomes and support better decision-making by healthcare professionals.The convergence of AI and IoT in the field of smart health coupled with machinelearning algorithms are enabling new and innovative solutions for healthcare deliveryand management. AI algorithms and machine learning techniques can be used toanalyze vast amounts of data generated by IoT devices, such as wearable devices,sensors, and smart home health devices, to provide insights into patient health andwell-being. This research presents a review of patients' healthcare services.Particularly, we first give an overview of essential parameters of patients' healthcareservices through Green-IoT-enabled sensor technologies under the use case scenario.We then present a basic architecture for IoT-based healthcare systems consideringkey requirements in the light of the UN's Sustainable Development Goals discussingtheir strengths and weaknesses in the context of the framework for patients'healthcare services. Finally, we explored various security threats for AI-basedarchitecture and their solu

### Abstract of Dapor Accortad in ICCCET'2022

### Abstract of Paper Accepted in ICGCET'2023

2325

### Possible Solutions for Teaching Large Classes in a Dynamic Educational Landscape

B. Kotze and A.J. Swart Department of Electrical, Electronic and Computer Engineering Central University of Technology, Free State Bloemfontein, South Africa bkotze@cut.ac.za

#### ABSTRACT

The rapid growth of tertiary education enrolments, particularly in science, technology, engineering, and mathematics (STEM) courses, has presented numerous challenges for educational institutions around the globe. The purpose of this article is to review possible solutions that may help mitigate some of these challenges. A phenomenological study is used as an approach to unfold the experience described by the authors experiencing these challenges. Firstly, linked classrooms are considered, allowing for a more flexible and efficient use of limited physical space. Secondly, the integration of extended reality technologies into the teaching process can help students demonstrate key graduate attributes required by Industry today, as well as becoming an enabler of student agency and active learning. Thirdly, the use of video recording software, such as Panopto<sup>TM</sup>, can prove effective in managing course materials and assignments and in promoting student engagement. As tertiary institutions continue to face the challenge of accommodating a growing number of students with limited facilities, the application of one or more of these solutions has the potential to revolutionize teaching methods, improve student engagement, and enhance learning outcomes in STEM courses and beyond.

**Keywords:** Virtual Reality, Augmented Reality, Panopto<sup>TM</sup>, linked classrooms, workload,

Abstract o	f Paper Accepted in ICGCET'2023		
2765	Proposed System Using IoT and GIS to Generate Electronic Medical Records		
	Yousef Elebiary UniSZA, Malaysia yousefelebiary@unisza.edu.my		
	<b>ABSTRACT</b> Every aspect of human's life is affected by the Technological revolution breakthroughs, it has significant effects on our modern lives, and a highly favourable and helpful influence on the medical industry. In the last era, there were great improvements in the fields of Internet of Things (IoT) and Geographic Information Systems (GIS) that allowed healthcare to evolve rapidly and created a new concept of healthcare delivery. This paper explores the potential benefits of using IoT and GIS in healthcare, including improved patient outcomes, enhanced data analytics, and more personalized and efficient healthcare delivery. With the growing adoption of these technologies the healthcare industry has the potential to transform the way patient care is delivered and managed. A new approach about how the real-time data can be handled and transferred from IoT devices to the Electronic Medical Records (EMRs) has been discussed. Also a system has been proposed to generate these records. The use of IoT and GIS in Electronic Medical Records has several implications on the field of medical health care from improved patient care, increased efficiency to better decision-making and reduced costs, which makes the need for these technologies inevitable. And as these technologies continue to develop, we can expect to see even more benefits from their use in healthcare.		
	stakeholders		

Abstra	act of Paper Accepted in ICGCET'2023
4839	Activities suitable for the development of graduate attributes among senior engineering students
	Arthur James Swart Central University of Technology <u>drjamesswart@gmail.com</u>
	<b>ABSTRACT</b> A challenge that is currently faced by many engineering educators around the globe is a lack of knowledge of what graduate attributes really entail and how they should be integrated and assessed in the curricula. The learned experiences of academics who have successfully assessed some of these attributes in their respective modules may help fellow academics in meeting this challenge. The purpose of this article is to highlight what activities an academic has used to help senior engineering students demonstrate two of the 11 graduate attributes required by a national engineering council that may help fellow academics, not to repeat mistakes, but rather achieve success in meeting the expectations of a statutory body. A descriptive case study is used which aims to provide a description of a phenomenon (activities used to help students demonstrate the acquisition of two graduate attributes) within a given context (a higher education qualification in engineering). The qualification was successfully accredited by the Engineering Council of South Africa in 2022, where exit-level modules featuring graduate attributes at the advanced level were scrutinized. This testifies to the validity of the activities used in this regard. The practical grades of students within this module indicate that the activities were neither to challenging nor to complex. The average grade for the activities for 2021 and 2022 for 371 students was 65%. It is recommended that academics continue to share their experiences with regard to the development of graduate attributes, as this will continue to contribute to the dialogue and help guide fellow academics in meeting the ongoing challenge of integrating and assessing them.

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Keywords: engineering professionalism, engineering management, accreditation

Abstrac	t of Paper Accepted in ICGCET'2023
5244	The Application of MATLAB® Live Script and Simulink in the Electrical Engineering Mathematics classroom
	Michelle Ellis Erasmus Department of Mathematical and Physical Sciences, Central University of Technology, Bloemfontein, Free State, South Africa <u>mellis@cut.ac.za</u>
	<b>ABSTRACT</b> The Central University of Technology is in possession of a MATLAB® total academic headcount license, enabling all electrical engineering students to access MATLAB® and Simulink online for the duration of their studies. The student access and the limitations associated with paper bounded calculations led to an investigation into the extent this software can be utilised in the electrical engineering mathematics classroom to enhance student adoption of mathematics and its extension to realistic applications. The Live script application within this software allows text, images and coding in an interactive student friendly script which is well suited to the adoption of electrical engineering mathematics content by students as theory, examples, problem solution visualization and experimentation opportunity are present in a single script. Solution visualization and experimentation with realistic applications are important in electrical engineering field but is not possible in the traditional mathematics paper-bound delivery. Simulink, a graphic block diagram application within MATLAB®, was also investigated for its mathematics applications as this would appeal to the visual-understanding inclined student as well as prepare students for the application toolboxes they will use at a later stage of their studies. This paper will demonstrate how Live script and Simulink was turned into a mathematics textbook by sharing the student experience in determining the Fourier series for a periodic function and solving an RLC circuit for both a paper-suitable and paper-unsuitable application. Mathematics has evolved to an applications subject well received by its students at the Central University of Technology, tell everyone!
	Keywords. Live script, Sintumik, Interactive mathematics textbook.

### Abstract of Paper Accepted in ICGCET'2023

5777	Parental stress in parents of children with disabilities exposed to violence: a systematic review
	Carmen Liucia Soriano Alva <u>csorianoal1975@ucvvirtual.edu.pe</u> <sup>1</sup> <sup>1</sup> Universidad Cesar Vallejo, Lima, Peru
	ABSTRACT
	The present systematic review study aimed to analyze the relationships of parental stress in parents of children with disabilities exposed to violence. International articles were analyzed since no national articles were found, their analysis had the PRISMA methodology supported with 3 scientific databases: Scielo, PubMed and Scopus. The research analyzed came from the health sciences and psychology. We found 12 studies that met the inclusion criteria, noting that the most studied population are the mothers of children with autism spectrum disorder, but the most relevant studies were with parents of children with behavioral difficulties. The results obtained found a directly proportional relationship between parental stress of parents with children with disabilities and child violence, and the most used instrument is the Pareting Stress Index-Short Form (PSI-SF), having as an observation that it is not valid for the population of parents with children with autism. The study opens the possibility of continuing to study this relationship by designing prevention and promotion programs in the field of mental health, both to promote the physical and psychological well-being of parents and the fulfillment of the rights of their children with disabilities.

### Abstract of Paper Accepted in ICGCET'2023

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### Evaluation of the quality and transversal competences of university students in an Andean region, Perú

Rocio Cahuana Lipa, Sabino Pichihua Torres, Juana Regina Serrano Utani <u>rcahuanal@utea.edu.pe</u>, <u>spichihuat@utea.edu.pe</u>, <u>jserranou@utea.edu.pe</u>, Technological University of the Andes. Apurímac, Peru Julio César Machaca Mamani, Rosa Huaraca Aparco, Victor Alberto Lima Román, Margoth Moreno Huaman José María Arguedas National University. Apurímac, Peru <u>jcmachaca@unajma.edu.pe</u>, <u>rhuaraca@unajma.edu.pe</u>, <u>victorlima@unajma.edu.pe</u>, <u>mhuaman@unajme.edu.pe</u>, <u>Rosario Giovanna Machaca Mamani</u> Universidad Andina Néstor Cáceres Velásquez. Puno, Peru <u>d01323009@uancv.edu.pe</u>

#### ABSTRACT

Quality is crucial within the university apparatus and even more so when transversal competences are emphasized especially in the Andean regions. The objective of the study was to determine the relationship of the perception of the quality of the educational service with the transversal competences in the student body of the Faculty of Legal, Accounting and Social Sciences of the Technological University of Los Andes, subsidiary Andahuaylas, Apurimac 2021. The methodology of the study was quantitative, the collection of study data was carried out through geolocation, the sample was composed of 141 university students from an Andean region of deep Peru. The results show that quality was perceived in 5.7% as never before; 18.3% almost never, 43.3% sometimes, 27.8% almost always and 4.9% always and with respect to transversal competences, it could be revealed that 5.7% have never developed them; 38.4% from time to time, 35.7% almost always and 20.2% always, completing the 263 participants. Conclusion: At 95% confidence, the very low level correlation between both variables was assured. In the end, it is intended to reaffirm that the elementary quality conditions remain intact and unchanged since the licensing was achieved in said university, however, they should increase their level to achieve again an institutional relicensing by the SUNEDU and tempt university accreditations in the near future.

Keywords: Quality, skills, education, students, university, transversality.

7160	Managerial leadership and pedagogical practice of teachers
	Veronica Ana Quiroga Florez <sup>1</sup> , Rosa Huaraca Aparco <sup>2</sup> <sup>1,2</sup> Universidad Cesar Vallejo, Lima,Peru. <u>vucv@ucv.edu.pe</u> <sup>1</sup> , <u>rhuarac@unajma.edu.pe<sup>2</sup></u>
	<b>ABSTRACT</b> Managerial leadership is one of the factors of the teacher in teaching. The purpose of the study was to determine the relationship between managerial leadership and pedagogical practices in teachers of an educational institution in the region of Lima, Peru. The study is of a quantitative, non-experimental, descriptive approach. The instruments used were two questionnaires with 30 items for the variable educational leadership and pedagogical practices and the research was conducted with 63 teachers. The results found that there is a significant relationship between managerial leadership and pedagogical practices with a significant correlation (p = $0.00 < \alpha = 0.05$ ) positive and strong level (0.75 < Rho = $0.846 < 0.90$ ). This indicates that if managerial leadership is efficient, pedagogical practices will be efficient. <b>Keywords:</b> managerial leadership, pedagogy, pedagogical skills, pedagogical practices.

### Abstract of Paper Accepted in ICGCET'2023

### Abstract of Paper Accepted in ICGCET'2023



Abstract o	f Paper Accepted in ICGCET'2023
7291	School Administration In Times Of Pandemic
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	ABSTRACT
	The aim of this research was to describe what is known about school administration in times of pandemic. The PRISMA method was applied for the systematic review of 31 scientific articles published in the Scopus, ScienceDirect and CORE databases between 2020 and 2022. The results obtained were grouped into 2 dimensions: a) human resources management and b) administration of assets, resources and educational materials. It is demonstrated that during the pandemic there was an interest in investigating the area of school administration carried out remotely and using virtual means; as well as that most of the research carried out was of a qualitative nature. It is concluded that the reviewed articles indicate that the educational community had to make changes, teachers in their methodology, both in continuous training, and learning in the use of platforms and for this resources were needed, of which, in many families, they lacked generating gaps in the expected learning. Likewise, there were cases in which opportunities for innovation and training were generated for teachers, being the promoter and the one who promotes these practices the director of the schools as leader and manager.
	<b>Keywords:</b> education administration, educational management, school management, school administration, pandemic.

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7502	Coping with stress for teachers during Covid- 19: Systematic review Delia Maria Felix-Patiño <sup>1</sup> , Juan Mendez-Vergaray <sup>2</sup> , Roel Emilio Rodriguez Ramirez <sup>3</sup> , Eliezer Rodriguez Ramirez <sup>4</sup> <sup>1,2</sup> César Vallejo University, Lima - Peru demafe06@gmail.com <sup>1</sup> , jmvevaluaciones@hotmail.com <sup>2</sup>
	ABSTRACT
	The present research aimed to evaluate the coping strategies used by teachers to cope with stress during Covid-19, and thereby ensure that experts excel in their field and continue to acquire academic knowledge to perform successfully during their professional stage. Regarding the methodology, a systematic review based on the Prism diagram was carried out to verify the use of adequate sources, based on inclusion and exclusion criteria. The study focused on a detailed analysis through the observation and understanding of situations in the current reality, which allowed to deepen the problem. Likewise, the results detailed that there are few investigations that give importance to the search for various strategies to eradicate stress in teachers, however, the recommendations of the studies investigated are taken into account, since they have the purpose of instructing and generating greater knowledge in teachers and thus eradicate stress. Finally, it was concluded that the pandemic caused by Covid-19 has presented significant challenges for teachers; The sudden shift to online learning, the need to become familiar with new technologies and the concern for the health and safety of them and their students have resulted in high levels of stress among teachers, so this study takes into account and recommends institutional support even after the pandemic.

### Abstract of Paper Accepted in ICCCET'2023

Abstract c	of Paper	Accepted	in	ICGCET'2023	;

7525	
	Reflections on autonomous learning and its
	educational importance
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	ABSTRACT
	The objective of the research was to describe the importance of Autonomous Learning in Higher Education students, the method I use consists of a qualitative approach with a phenomenological design, consisted of a theoretical review of the contribution and research on the subject. It was concluded that both education and learning are complex and interdependent processes of cognitive and functional accommodation; that autonomy is a right and the basis of a person's freedom and that autonomous learning is an individualized and independent type of learning, generated and developed by an individual's interest in assimilating something, without the synchronic intervention of other subjects.
	Keywords: Education, learning, autonomy, autonomous learning.

### Abstract of Paper Accepted in ICGCET'2023

9131	Enhancing Graduate Attributes in Electrical Engineering Education
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	ABSTRACT
	This research paper investigates the critical importance of enhancing graduate attributes in electrical engineering education. Graduate attributes encompass a diverse set of skills, knowledge, and competencies that extend beyond technical expertise, empowering engineering graduates to excel in a rapidly evolving global landscape. The review of literature explores the significance of integrating graduate attributes into the curriculum, considering their impact on students' professional and personal development. Key areas of focus include identifying essential graduate attributes for electrical engineers, discussing various pedagogical approaches to fostering these attributes, and examining the challenges and potential solutions in implementing attribute-centric curriculum. The synthesis of relevant literature provides valuable insights for educators, institutions, and policymakers seeking to design comprehensive curricula that cultivate well-rounded electrical engineering graduates. By emphasizing graduate attributes such as critical thinking, communication, adaptability, and teamwork, this literature review promotes a holistic approach to education that equips graduates with the skills and qualities needed to succeed in their professional careers and contribute meaningfully to society.
	<b>Keywords:</b> Graduate Attributes, Electrical Engineering Education, Curriculum Enhancement, Holistic Education, Professional Development

# Abstract of Paper Accepted in ICGCET'2023

9872	Educational Coaching in the performance of higher education teachers: a geolocalized study Mercedes Evangelina Lopez-Almeida <sup>1</sup> , Jose Jeremias Caballero-Cantu <sup>2</sup> , Edgar Salvador Inciso-Mendo <sup>3</sup> , Inocenta Marivel Carbajal-Bautista <sup>4</sup> , Teresa Narvaez- Aranibar <sup>5</sup> , María de Fátima Calagua-Montoya <sup>6</sup> , Juan Méndez Vergaray <sup>7</sup> , Rosa Huaraca Aparco <sup>8</sup> . <sup>1,2,3,4,5,6,7,8</sup> , Universidad César Vallejo, Lima-Perú. <u>mechita.lopez.almeida@gmail.com<sup>1</sup></u> , josecaballeroc94@gmail.com <sup>2</sup> , <u>edgarminsa@hotmail.com<sup>3</sup></u> , tnarvaeza@gmail.com <sup>5</sup> , <u>mafa.calaguamontoya@gmail.com<sup>6</sup></u> , jmvevaluaciones@hotmail.com <sup>7</sup> ,
	ABSTRACT
	ABSIRACI
	Education is a social process that is commissioned the integral formation of the human being for life, so that it permanently transforms itself and contributes to the transformation of the context, the purpose of the study was to determine the Educational Coaching and the difficulties that exist to the application of the Soft Skills in the performance of teachers. The study was of applied quantitative approach, non-experimental design, cross-sectional, causal correlational; with a sample of 123 university professors evaluated through the Google form questionnaire, for the three variables Educational Coaching, soft skills and teaching performance. At the level of its results it was found that 71.5% of teachers presented a moderate educational coaching, 82.1% high soft skills, and 66.7% regular level in teacher performance, of the p value of 0.005 ordinal regression was applied, where according to the Logarithm model of likelihood was $-2 = 0.000$ with a Chi-square = 55.422 and a p value = 0.000, indicating that both variables educational coaching and Soft Skills contribute significantly in the teaching performance with Nagelkerke coefficient for the variable educational coaching with p=0.036<0.05 and soft skills with p=0.028<0.05. Including them in the proposed regression model.
	performance.

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