Presentation

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Lámpsakos, at number 22, opens its publication with an editorial related to Digital transformation in institutions of higher education [1]. A current topic of interest, written by one of the most recognized experts in the field of academia. This editorial is the prelude to the valuable content that the publication presents to our readers in this new edition.

Under the title, "Evaluation of the mechanical properties of modified concrete with glass microspheres and tire residues" [2], the authors make a proposal based on the joint addition of microspheres and tire residues to replace traditional construction materials. The article besides being supported by several graphics that characterize the mixture of both materials, seen from the properties of density, elasticity and resistance. It also constitutes a promise for the reuse of waste, which positively impacts the environment and benefits the industry.

In "Adaptation of the information theory for the linear propagation regime of a next-generation DWDM optical network" [3], the authors present in parallel an adjustment to Shannon's theory and develop an equation, which allows generating the possibility of controlling some parameters and configuration characteristics of a next generation optical network. In the exercise of the investigation, the authors manage to demonstrate improvements in spectral efficiency and achieve high access capacities with large bandwidths.

We continue with the "Development of nanomaterial with activated carbon of banana stem" [4], whose purpose is to describe the process of conversion of the Creole banana stem, as a new nanomaterial with the appropriate adsorption characteristics and surface area that would allow cooling applications. In the manuscript, the authors describe the steps, equipment used and accompany them with graphs that summarize their findings.

"Case study of the development of a videogame based on BCI", [5] focuses on exposing how the integration methodology between project training and applied training research of the National Learning Service SENA is confronted from its instructors and students. It is conducted to a real world case, represented in a video game scenario, called Serious Game EEG, for the adaptation and management of upper limb prostheses.

The management and recovery of the beaches demands first the recognition of their dynamic systems that vary due to the action of phenomena such as wind, waves and currents and even anthropic intervention. In "Analysis of the temporal variation of the erosion-sedimentation zones in cross-sectional profiles of the Marbella beach, Crespo tunnel sector, Cartagena" [6], the authors describe the quantification of the transverse areas in beach profiles raised in two morphological units from the beaches of Marbella located in north of Cartagena de Indias.

"Strategic plan based on ITIL for MSMEs in the department of Arauca-Colombia" [7], in its main orientation sets the results of an investigation aimed at evaluating the good practices of ITIL 3. It is for the achievement of a strategic plan oriented to the management of customer service, specifically valued in the department of Arauca. The conclusions shared by the authors constitute a useful path for other SMEs of different geographical location.

Agriculture is analyzed from the technologies supported by the Internet of Things (IoT). The authors of the manuscript entitled "Internet of things applied to agriculture: current status" [8], which discloses a diagnosis of these technologies, focusing on the case of Latin America and Colombia. The review criteria analyzed allow several conclusions to be referenced, which may constitute the initial input of other research in the area.

Exploring the panorama of new technologies in the field of industry 4.0 and clothing, it is possible from "Interactivity and connectivity at the service of the clothing industry" [9]. This article addresses concepts such as big data, cloud computing, cyberphysical systems and intelligent sensors and their articulation in terms of productivity, quality and service in the clothing industry. For this, not only its advantages are exposed, but also the challenges to which this industry is subjected when it receives the aforementioned technologies.

To conclude this edition, the manuscript entitled, "Chemical reactions of simple sugars used in the food industry" [10]. There is evidence of a careful review of the basic reactions of sugars, mainly momo and disaccharides, so that its favorable behavior stands out as unfavorable of its presence in the current food industry.

REFERENCES

[1] J. W. Branch Bedoya, "Artificial Intelligence and the fourth industrial revolution", Lámpsakos, (22), pp. 13-14. (july-december, 2019). doi: 10.21501/21454086.3382]

[2] J. P. Valencia Villegas, A. M. González Mesa, y O. F. Arbeláez Pérez, "Evaluation of the mechanical properties of modified concrete with glass microspheres and tire residues", Lámpsakos, (22), pp. 16-26. (july-december, 2019). doi: 10.21501/21454086.3283

[3] G. A. Gómez Agredo, y J. G. López Perafán, "Adaptation of the information theory for the linear propagation regime of a next-generation DWDM optical network", Lámpsakos, (22), pp. 27-36. (july-december, 2019). doi: 10.21501/21454086.3127

[4] E. Nahum Quintero Ruiz, Efrén Giraldo Toro, Carlos Alberto Acevedo Álvarez, "Development of nanomaterial with activated carbon of banana stem", Lámpsakos, (22), pp. 37-47. (july-december, 2019). doi: 10.21501/21454086.3307

[5] E. J. Restrepo Zapata, A. Díaz Jaramillo, Montealegre, I. M. Vega Rodríguez, y S. M. Velásquez Restrepo, "Case study of the development of a videogame based on BCI", Lámpsakos, (22), pp. 48-58 (july-decembre, 2019). doi: 10.21501/21454086.3074

[6] A. Muñoz Guzmán, C. A. Tovio Gracia, L. M. Díaz Arellano, y E. P. Simancas Vásquez, "Analysis of the temporal variation of the erosion-sedimentation zones in cross-sectional profiles of the Mar-

bella beach, Crespo tunnel sector, Cartagena", Lámpsakos, (22), pp. 59-67. (july-december, 2019). doi: 10.21501/21454086.2824

[7] C. E. Puentes Figueroa, G. Maestre –Góngora, "Strategic plan based on ITIL for MSMEs in the department of Arauca-Colombia", Lámpsakos, (22), pp. 68-84. (july-december, 2019). doi: 10.21501/21454086.3280

[8] J. P. Tovar Soto, J. de los S. Solórzano Suárez, A. Badillo Rodríguez, y G. O. Rodríguez Cainaba, "Internet of things applied to agriculture: current status", Lámpsakos, (22), pp. 86-105. (july-december, 2019). doi: 10.21501/21454086.3253

[9] L. Vega Rodríguez, F. A. Gaviria, y L. E. Botero, "Interactivity and connectivity at the service of the clothing industry", Lámpsakos, (22), pp. 106-122. (july-december, 2019). doi: 10.21501/21454086.3071

[10] S. Arias Giraldo, y D. M. López Velasco, "Chemical reactions of simple sugars used in the food industry", Lámpsakos, (22), pp. 123-136. (july-december, 2019). doi: 10.21501/21454086.3252