XIV International Congress of Electronics and Advanced Technologies

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The Universidad de Pamplona, Colombia, through its Faculty of Engineering and Architecture, realized the XIV International Congress of Engineering "Electronics and Advanced Technologies" (XIV CIETA), X International Congress on Systems, Informatics, and Knowledge Engineering (CICOM), X International Congress on Telecommunications, IX International Congress on Electrical Engineering, V International Congress of Mechatronics Engineering and II International Congress of Industrial Engineering, Virtual modality in Pamplona, Norte de Santander, Colombia, on October 28, 29 and 30 of the year 2020.

This International Congress "Electronics and Advanced Technologies" is a point of contact between the college students, engineers and researchers as much from the Universidad de Pamplona as from other foreign Universities or of Colombia. The International Congress "Electronics and Advanced Technologies" proposes general and specialized articles and discusses topics such as Physics, Mathematics, Automatic Control, Automatization, Digital signal Processing, Electronics, Electrical treat, Telecommunications, Systems, and areas related to sciences and engineering.

These spaces for scientific interaction allow students, professors, and researchers to recognize the work that is being carried out in their areas of study. This recognition is essential for the emergence of supportive relationships between researchers that later become collaborative work networks. These spaces are also the ideal setting to continue in the student formative research processes. This training is of great importance to continue educating the future generation of researchers in areas of science and engineering as important as electronic and advanced technologies. The Universidad de Pamplona, Colombia, consolidates the organization of this event that aims to be at the forefront of issues that are very important for a country like Colombia. Therefore, the organization of this event brought expert speakers in these areas from different parts of the world to present their work and ideas to the attendees. This exhibition was made to expand knowledge in methodologies and different applications in technology that allow academics to respond to the needs that society has in these areas of knowledge.

The growing demand for companies in the creation and implementation of technologies that allow them to be more competitive globally was a topic that was addressed in this conference. For this reason, this scientific conference is has strengthened with the presentation of high-quality applied researches that show the importance of integration between academia and industry. Colombia needs to join forces between academia and industry to be able to carry out an optimal process of the digital
transformation of their companies that have the need to integrate advanced technologies and electronic applications in their production processes such as those exhibited in this prestigious event.

According to the above, this conference aims to continue inspiring future generations of scientists in Colombia and the world to build knowledge in the community. This community includes researchers, academics, and entrepreneurs whose main objective must be to provide a timely response to the challenges that today's society faces. This work in the community should be the agent of change in our society.

Finally, some of those experiences were compiled in this proceeding through papers, that they will be available for the consulting of the academic-scientific community in general. Likewise, the organizing committee of the XIV International Congress of Electronics and Advanced Technologies (XIV CIETA) considers that these manuscripts contribute to the generation and transfer of knowledge, as well as to the strengthening of research in Colombia. For this reason, we hope you enjoy the reading of this volume of the Journal of Physics Conference Series (JPCS), IOP Publishing.

“Education for anyone”

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