



EDITORIAL:

CHALLENGES OF ERGONOMICS IN THE CONTEMPORARY WORLD

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The Ergonomic Action Magazine, a journal of the Brazilian Association of Ergonomics (ABERGO), has existed since 2000. There are already more than 300 articles published in 17 volumes. Since 2023, we have been expanding the structure of the journal, in order to increase the quality of publications and seek better indexing. To this end, several actions are being taken, such as the diversification of the editorial board (integrating national and international researchers from different areas) and the publication of articles, since the 2017 edition, also in English and Spanish versions. As a result, the quantity and quality of articles increased in 2024, and we achieved important indexations this year, in databases such as Latindex, DOAJ, and Miguilim.

As part of the Journal's development project, in 2024 its 1st thematic dossier was launched: "Challenges of Ergonomics in the Contemporary World". In the scenario of the contemporary world of work, marked by rapid technological transformations, socioeconomic changes and global challenges, ergonomics is faced with new and complex dilemmas. On the one hand, the development of digital transformation has brought with it new ways of working, such as *home office*, automation, and virtual reality. At the same time, the so-called fourth industrial revolution has been introducing technologies such as the Internet of Things (IoT) and Artificial Intelligence (AI) in work environments. On the other hand, the increase in professional demands and the flexibilization of labor relations, driven by external factors such as the COVID-19 pandemic, shows the need to develop workers' health, production in organizations, and the environment in a more integrated way.

This scenario gains even more specific contours in the Brazilian reality, marked by enormous social inequality, precarious working conditions and work, and punishment measures as the main or even the only form of control. This is present throughout the world of work, not

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limited to remote work and/or the service sector. These challenges concern work in the primary, secondary or tertiary sector, both in public and private institutions, whether large, medium or small, through the various hierarchical levels occupied by workers. In short, it concerns the world of work in all its forms of expression.

How does Brazilian ergonomics deal with these issues? How can it meet the specific needs of diverse groups, promoting inclusion and ensuring a healthy and safe work environment? How to develop health and productivity in increasingly digital work environments and contribute to more sustainable work practices? How, finally, does Brazilian ergonomics deal with the specific issues of our country?

The articles published in the thematic dossier "Challenges of Ergonomics in the Contemporary World" sought to deal with these issues. Essays by great researchers in Brazilian ergonomics, such as Leda Leal Ferreira and Laerte Idal Sznelwar; review articles on the oil and gas industry (Santos *et al.*) and on telework (Pinheiro *et al.*); research articles that evaluated Brazilian publications on ergonomics in the Web of Science database (Vieira and Montedo), practical research analyzing work in the informal economy – such as in recyclable material cooperatives (Pereira and Messias), in fishing communities (Melo *et al.*) and in self-built housing (Morais and Saldanha) – in technology companies (Bühler *et al.*), in human-machine interaction (Merino *et al.*) and in the field of accessibility and people with disabilities (Albers *et al.*). We also had the first translation of classic texts from the journal, a theoretical article by Jean Marie Faverge on the intricacies of recovery work (Duca and Lima).

In this way, this dossier paves the way for a new era for the journal *Ação Ergonômica*: a moment of historical recovery about the trajectory of ergonomics in Brazil, but also of projection into the future, with reflections that dialogue with the emerging challenges of the world of work. By bringing together diverse research, which crosses different contexts, sectors, and social realities, we reaffirm the journal's commitment to scientific excellence, the plurality of perspectives, and the promotion of more humane, inclusive, and sustainable work environments. Let this be just the first of many thematic dossiers that will contribute to strengthening Brazilian ergonomics and its positive impact on society.