



Ergonomics in Design for All/ Newsletter

Dear Members and Friends of the International Ergonomics Association (IEA),
Ergonomics in Design for All Technical Committee,

Welcome to our twenty-fifth newsletter.

Have a look at it, enjoy it!

With very best wishes, I wish you good luck with your work,

Erminia Attaianese and Isabella T. Steffan

IEA Ergonomics in Design for All TC
Chair and Past Chair

WELCOME TO THE NEW MEMBERS

By **Erminia Attaianese**, IEA TC EinDfA Chair

Dear EiDfA member,

thank you for joining us in the Ergonomics in Design for All Technical Committee!

The TC on EinDfA, founded by Isabella T. Steffan and Ken Sagawa in 2016, is the reference point for practitioners and researchers in the fields of ergonomics and design for industry and for users. The TC serves the needs of practicing ergonomists who are concerned with user interaction of environments, products, services show the effectiveness of the application of ergonomics knowledge and ergonomics principles to designers and demonstrate the importance and benefits of implementing ergonomics in the design for All process to any stakeholders (such as public institutions, public and private companies and their managers, etc). Objectives of the TC are:

- To promote ergonomics in the process of Design for All (called also Universal Design or Inclusive Design)
- To improve and increase the ergonomics knowledge for application in Design for All
- To promote basic and applied ergonomic research as well as best ergonomic practice within the domain of Design for All

Domains of interest of our TC include:

- ergonomic role and contribution for involvement of real users in the design process, considering the development of methods/methodologies for incorporating ergonomics; ergonomic knowledge on human abilities and design goals,

design process and implementation of ergonomic knowledge.

- considering human sensory, physical, cognitive, emotional abilities; design goals in terms of usability, accessibility, comfort, global and cultural user experiences, etc.
- application in all fields of design, at urban scale, about transportation, architecture, interior design, product design, graphic design, communication design, ICT, tools, devices, web, computing, signage, etc.

The plan of action we can share to gain the EiDfA goals are:

- organize the TC into some thematic sub-committee, to identify and focus on some issues that today need to be developed within the Design for All. Who are interested in proposing one sub-committee is called to send me a proposal, specifying aims, planned activities, and expected results.
- structuring a set of open meetings (webinar) about relevant issues (i. e. presentations by members who intend to propose a sub-committee will be well accepted);
- develop an editorial product (book or a special number of a scientific journal) aimed at disseminating both principles and TC members' experiences and good practice.
- develop a page of the TC on the main social media.

A Facebook page of the EiDfA TC is currently active and is waiting for your reactions.

If you are interested in taking an active part in our activities, or propose others, please contact me to:

erminia.attaianese@unina.it



IEA TC Ergonomics in Design for All

Adesso ·

Welcome to the fb Page of the Technical Committee Ergonomics in Design for All of the International Ergonomics Association



Mi piace



Commenta



Invia



Condividi

REPORT FROM THE IEA2024 CONGRESS

By **Isabella T. Steffan**, IEA Ergonomics in Design for All Past-chair

The IEA2024 conference in Jeju, Korea was a great opportunity to meet colleagues from all over the world and share research and practices in the field of Ergonomics/Human Factors and UD/DfA. Our **IEA TC EinDfA organised 2 special sessions**.

In the special symposium “Ergonomics for Inclusive Living Communities”, chaired by Erminia Attaianese, have been explored and critically discussed the relationship between human health, Inclusive Design and sustainable interventions within ILCs at different design research scales. Recent developments within Design studies suggest that the design of enabling solutions can play a key role in reducing social inequalities by promoting new forms of sustainable wellbeing, both at the personal and the community level. The symposium gathered a set of emerging studies connecting HFE and Design for All, in their broader sense, within the ILCs phenomenon, as well as offering thematic explorations on thematic design domains that are considered as relevant.

Contributors were: Emilio Rossi, Erminia Attaianese, Alessia Brischetto, Claudia Porfirione (The Concept of Inclusive Living Communities: Between Research Trends and Design Scenarios); Emilio Rossi (The System Design for Social Inclusion Framework Applied to Inclusive Living Communities); Erminia Attaianese (Inclusive Dwelling for Inclusive Living Communities in the current eco-socio-technical changing scenario); Alessia Brischetto, Ester Iacono (KETs-Oriented Service-Based Solutions for Inclusive Living Communities); Claudia Porfirione, Isabel Leggiero (Inclusive Ageing in Place, Inclusive Housing, and Ambient Assisted Living for Inclusive Living Communities).

In the special symposium “Human Factors, inclusion and design for all: approach and implementations”, organised with the collaboration of the IEA TC “Slips Trips and Falls”, and chaired by Isabella Steffan, have been discussed the need to further improve the accessibility and usability of the built environment, services, and products, despite the efforts made in recent years at European and international level. The challenge is to improve inclusion, equality, participation in social life and the quality of life of all citizens and visitors, including those with physical, sensory, cognitive disability. Furthermore, the need emerges to have adequate professional figures who, by applying the principles and approach of the DfA/UD, and the methods and tools specific to Ergonomics, ensure the achievement of good accessibility practices, making the built environment compatible with the needs and skills of as many people as possible. This symposium aimed to share and discuss among experts and professionals working in specific fields, a general approach, and a dedicated strategy, such as the European Union one, and some specific applications at different scale

I have presented the work done with Ilaria Oberti and Marco Pizzio, “A shared Process to improve Accessibility in Europe”, which also promotes standardisation work at European level and the AccessibleEU resource centre. There have been diverse presentations: online by Daniele Busciantella Ricci (Healthy and Inclusive Neighbourhoods: the design for inclusion perspectives in the urban health approach) and in presence by Sophia Yue Li Surface Safety and Accessibility: Uncovering Slip-Resistance Standards Across Global Accessibility Guidelines, Nana Itoh Design for improving visual accessibility: appropriate contrast for older people and people with low vision, Carlos Aceves-González Integrating human factors/ergonomics in designing for all: the case of inclusive service design

Their interesting speeches produced a great participation of the public present, and a wide debate.

In the **session dedicated to the IEA Technical Committees**, with Nancy Black, I summarized the work done for the foundation and promotion of the IEA Technical Committee Ergonomics in Design for All, since 2016 and in the last 3 years.

I had the opportunity to represent CREE (Centre of Registration of European Ergonomists) and illustrate its role and activities in **the panel discussion dedicated to Certification**, organized by Maggie Graf - Vice President IEA. The speakers represented the realities of different countries: Ben Peachey - Chartered Institute of Human Factors and Ergonomics United Kingdom, Heather Kahle - Association of Canadian Ergonomists, Paolo Antonio Barros Oliveira - Brazilian Association of Ergonomics (ABERGO -CISCEB), Takashi Toriizuka - Certification body of Japanese Ergonomics Society, Rose Figueroa - Board of Certification of Professional Ergonomists (BCPE-USA), Andrew Thatcher - Certification System of South Africa, Valerie O’Keefe - Certification body of Human Factors and Ergonomics Society of Australia.

In the ceremony dedicated to the Awards, I had the honor of officially receiving the recognition of **IEA Fellow** by the IEA President José Orlando Gomes.



REPORT FROM THE ENEAC 2024 - BRAZIL

By **Thaisa Sampaio Sarmiento**, UNEAC 2024 Chair

On September 11th to 13th, 2024, Maceió/ Brazil hosted the **X National Meeting on Ergonomics of the Built Environment (ENEAC) and the XI Brazilian Seminar on Integral Accessibility (SBAI)**. The event has existed for 18 years in Brazil, with the national organization of the Pontificia Universidade Católica-Rio and the Universidade Federal de Pernambuco.

Over the years, the advancement and technical-scientific detail of Brazilian research presented at ENEAC have demonstrated the quality of Brazilian research in these two areas—ergonomics of the Built Environment and Accessibility—which are essential for the quality of life of people in urban and rural areas.

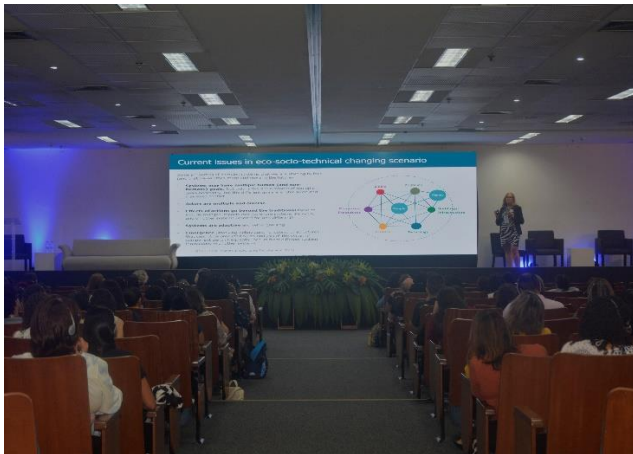
In 2024, the local organization of the event was carried out by the two largest higher education institutions in Alagoas: Ufal - Universidade Federal de Alagoas and Ifal - Instituto Federal de Alagoas, in partnership with the Council of Architecture and Urbanism of Alagoas - CAU/AL.

The event's program focused on 44 in-person activities led by 26 Brazilian PhD researchers, with the special participation of Prof. Dr. Erminia Attaianese from Università degli Studi di Napoli Federico II, Italy, and Prof. Dr. Elisângela Pessoa Vilar from Universidade de Lisboa.

Characterized as an important national forum aimed at fostering initiatives for debate and research developed in the fields of Ergonomics and Accessibility, the ENEAC assumes big social relevance, while unique opportunity for the presentation and discussion of ideas relating to the promotion of social and environmental inclusion, with focus on relationships between the environment built and its users.

The current event received the highest number of articles in its history - 144 papers from all over the country, which were submitted as full articles. The scientific committee selected 136 articles to participate in ENEAC 2024, of which 91 were directed to oral speaking, and 42 were presented as posters. Proceedings are open access and can be found at the link: <https://www.proceedings.blucher.com.br/article-list/eneac2024-396/list/#articles>

It is important to highlight the funding support of Brazilian research agencies: CNPq, Capes, Fapeal, and ABERGO. Also noteworthy was the decisive collaboration of local companies support and the members of the scientific and organizing committee, in addition to the Brazilian scientific community of Ergonomics of the Built Environment and Integral Accessibility, who sent us the collaboration in the evaluation of the submitted articles, to make this edition of the event possible.



FOCUS

Open Access Contents on Design for Equality, Diversity, and Inclusion for Higher Education Programmes. The EU project EDIDesk

By. **Emilio Rossi and Alessia Brischetto**, Italy

EDIDesk is the acronym of the **Erasmus+ KA220-HED project ‘Open Access Contents on Design for Equality, Diversity, and Inclusion for Higher Education Programmes’**. It is a three-year cooperation project led by the Design Group at the Department of Architecture, “Gabriele d’Annunzio” University of Chieti-Pescara, Italy, and aims at improving the teaching and learning methods on Design studies, particularly on aspects related to Equality, Diversity, and Inclusion (EDI), within the European Higher Education system through the use of inclusive digital tools and the development of new open access and multilingual educational contents. The project involves seven partners: “Gabriele d’Annunzio” University of Chieti-Pescara, Italy (Project Leader, Italy), Academy of Fine Arts and Design in Katowice (Poland), Slovak University of Technology in Bratislava (Slovakia), Elisava Barcelona School of Design and Engineering (Spain), University of Florence (Italy), EIDD Design for All Europe (Austria), and Cumulus Association (Finland).

The project addresses a key issue for the EU creative industry sector – training and equipping future generations of European graduates with new skills in the field of Design for Equality, Diversity, and Inclusion (EDI). Currently, the scenario of EDI-related teaching and learning content within undergraduate (UG) and postgraduate (PG) Design programmes is fragmented and dispersed. This makes graduates unprepared to address the challenges of current and future design markets, which however require enabling solutions. Accordingly, the risk of producing non-inclusive solutions is high. The main activities of the project are:

- Research and analysis of teaching contents on Design and EDI;
- Development of an EU framework on Design for EDI and pilot tests;
- Design and implementation of an open access digital learning platform on Design for EDI;
- Dissemination, outreach, and engagement with relevant stakeholders in the EU and beyond. In terms of objectives, partners of the EDIDesk project will work to obtain the following five strategic outcomes:
- Map UG and PG modules on EDI-related design topics in the countries of beneficiary institutions, with a survey sent globally, to understand best practices that can be assumed as a reference for the teaching and learning practices.

- Propose a European framework for teaching Design for EDI into UG and PG programmes and test it in five countries on different Design and Design-related subjects.
- Create an open access digital learning platform to collect and share open access multilingual teaching materials on Design for EDI.
- Develop a set of open access multilanguage teaching contents on Design for EDI for different design sectors, suitable for UG and PG modules.
- Promote open collaborations. The strategic target beneficiaries of the EDIDesk project are HEIs in the EU delivering UG and PG Design and Design-related programmes, which will benefit of novel open access teaching and learning methodologies as well as contents that propose peer-reviewed knowledge on Design for EDI. Accordingly, EDIDesk has identified three main groups of beneficiaries:
- Students, who will have the opportunity to access new multilanguage and open educational resources on Design for EDI such as lectures, seminars, etc., and a digital learning platform.
- Teaching staff, who will benefit of improved methodologies to set up novel curricula for Design (i.e.: Product Design, Graphic Design, UI/UX Design, etc.) and Design-related fields (i.e.: Architecture), alongside harmonized contents ready to be delivered to UG and PG students.
- Companies, NGOs, municipalities, and public bodies, who will benefit from inclusive solutions made by qualified designers (higher turnover and reputation) and will also be able to employ graduates with a proven track record on Design and/or EDI.

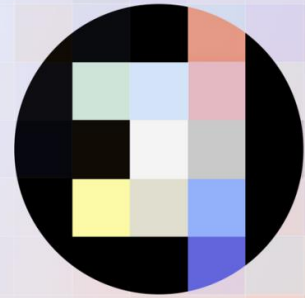
For contacts and information:

Project website: <https://www.edideskproject.com/> Instagram: <https://www.instagram.com/edideskproject/> Facebook: <https://www.facebook.com/EDIDeskueproject/> X: https://twitter.com/EDIDesk_project LinkedIn: <https://www.linkedin.com/company/edidesk-project> Youtube: <https://www.youtube.com/channel/UCLYDH6nawFniw8DLyS42kJw>

Key Persons: Prof. Emilio Rossi (Scientific Coordinator): emilio.rossi@unich.it Prof. Rossana Gaddi (Project Manager): rossana.gaddi@unich.it Prof. Alessia Brischetto (Communication lead): alessia.brischetto@unifi.it

EIDESH

Open Access Contents on Design for Equality, Diversity, and Inclusion for Higher Education Programme



Erasmus+ KA220-HED (2023-2026)



Funded by
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Promoting Ergonomics in Design for All is a core activity of our EinDfA TC.
You can find information about objectives, domains of interest, members of the TC here:

<https://iea.cc/member/ergonomics-in-design-for-all-eindfa/>

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