10th International Ergonomics Conference
ERGONOMICS 2024
December 5-6, 2024, Zagreb, Croatia
Final Conference Program

Thursday, December 5th, 2024	
Location: Congress Hall Sinergy, Hotel International, Miramarska 24	
8:00 – 9:00	Good morning coffee
8:00 – 13:00	Registration of authors and participants
9:00 – 9:45	**Opening ceremony**
9:45 – 10.45	**Invited lectures** (Chair: Jasna Leder Horina)
	9:45 – 10:05, Prof. Andrew Thatcher, president of IEA: CLIMATE ERGONOMICS: PREPARING FOR THE NEXT 50 YEARS
	10:05 – 10:25, Bernard Michez, Eur Erg, president of FEES: WHAT HFE RETURN OF EXPERIENCE TELLS TO INDUSTRY 5.0
	10:25 – 10:45, Professor Emeritus Eric Wang, president of CAES and former president of IEA: ERGONOMICS ISSUES IN AI SYSTEMS
10:45 – 11:15	Coffee break
11:15 – 12:15	**Lectures in session A** (Chair: Kristian Jambrošić) - P82 Anca Draghici, Maria Elena Boatca, Alin Gaureanu: Managing Remote Workers' Well-Being. A Risk-Based Practical Approach - P45 Henrijs Kalkis, Zenija Roja, Biruta Sloka: Ergonomic Indicators of Physical Strain for Industrial Woodworking Enterprise Employees in Relation to WRMSDs - P87 Maja Trstenjak, Tihomir Opetuk, Goran Đukić, Hrvoje Cajner: Use of Artificial Intelligence (AI) in the workplace ergonomics of Industry 5.0 - P55 Svetlana Kocerova, Henrijs Kalkis, Zenija Roja: Optimizing Office Environment: The Role of Human Factors and Hybrid Work Environments for Effective Design
12:15 – 14:00	Lunch break
14:00 – 15:00	**Lectures in session B** (Chair: Danijela Domljan) - P36 Uwe Reischl, Conrad Colby, Budimir Mijovic, Ravindra S.: Quantitative Assessment of Facemask Peripheral Leakage - P53 Romualds Razuks, Songita Dzeina Khana, Henrijs Kalkis, Zenija Roja, Elizabete Mikala: The Covid-19 Crisis and Medical Students' Resistance to Return to the Conventional Education System - P71 Josip Bota, Lorena Veronika Lončarek: Increasing observers' interest and comprehension by using expressive typography - P72 Lamia Bouzgarrou, Naoufel Bhouri, Ch. Harrathi, Nesrine Bhouri, Cyrine Mdimgh: Activity Analysis and Performance Optimization in A Screen-Printing Workshop
15:00 – 15:30	Coffee break
15:30 – 16:15	**Lectures in session C** (Chair: Emilija Zdraveva) - P64 Nurul Izzah Abd Rahman, Muhammad Nazirul Iszat Ismail: Cognitive Ergonomic-Driven Technology: A Pathway to Improve Mental Workload, Body Posture, and Work Performance of Ageing Workers in Office Setting

	- P22 Marwan Babiker, Eda Merisalu, Ženija Roja, Henrijis Kalkis: Prospective effects of artificial intelligence on burnout syndrome: Reducing risks and enhancing psychological well-being on healthcare - P69 Marko Horvat, Zoran Veršić, Kristian Jambrošić: The New Technical Regulation on Acoustics in Buildings in Croatia
18:30– 20:00	**Zagreb City Walking Tour, Meeting point: King Tomislav Statue, King Tomislav Square**

Friday, December 6th, 2024

Location: Congress Hall Sinergy, Hotel International, Miramarska 24

9:00 – 10:00	Good morning coffee
9:00 – 13:00	Registration of authors and participants
10:00 – 10:20	**Invited lecture** (Chair: Diana Milčić) Asst. Prof. Dario Babić: EYE-TRACKING IN ROAD SAFETY RESEARCH
10:20 – 11:05	**Lectures in session D** (Chair: Diana Milčić) - P17 Ilaria Chiriani, Alessandro Naddeo: Reconfiguring the interior of a Tesla Model 3 for autonomous driving purposes - P19 Lukas Fuchs, Netmi Narasinghe, Thomas Maier: Influence of Age and Palm Surface Area on Secondary Task Performance in a Driving Simulator - P85 Sebastijan Hleb, Sandro Tokić, Davor Sumpor, Mario Ćosić: Examining Human Factors in Traffic Accidents: Focus on Driver Fatigue
11:05 – 11:35	Coffee break
11:35 – 12:20	**Lectures in session E** (Chair: Davor Sumpor) - P81 Anca Draghici, Nicoleta Paula Neag, Maria Elena Boatca, Marian Mocan: Augmented Reality Used in Safety Traffic Management - P83 Adrian Wagner, Hrvoje Haramina, Fran Hitschfeld: Usage of drones for route surveillance in shunting operations - P60 Johanna Renny Octavia, Clara Theresia, Dian Putrawangsa: Towards Sustainable Ergonomics for Sustainable Business: Case of Indonesia's SMEs
12:20 –13:30	Lunch break
13:30 – 15:15	**Pre-recorded lectures in session F** (Chair: Anca Draghici) - P66 Lesly Mariee Colan-Campos, Fiorella Cinthya Sacaca-Quispe, Richard Raitt Rodríguez-Rojas, Carlos Manuel Escobar- Galindo, José Enrique Villalobos-Tupia: Cognitive analysis of pedestrian flow regulation in uni-versity security guards: a low cost prototype for registration - P20 Oleksii Reva, Serhii Borsuk, Volodymyr Kamyshyn: Development of Fuzzy Method of Air Traffic Control Students' Attitude Toward Risk of Flight Level Norms Violation Determination - P16 Oleksii Reva, Vasyl Cherniavskyi, Pavlo Mamenko, Kostiantyn Kyrychenko: Forecasting the Impact of Indiscipline among Cadets-Sailors on Maritime Safety and Proactive Ways of its Correction - P29 Darina Dupláková, Ján Duplák, Dejan Kojić, Patrik Sloboda: Analysis of Lighting Conditions in Students' Laboratory Using Simulation - P24 Tuong Quyen Vu, Cristina Salvador: New Space Transformation Layout: Primary Students' Interaction in a Developing Country's Classroom Environment - P62 Jeremy Laurence M. Bañez, Hazel A. Caparas, Reynaldo G. Salamat: Development of Student Workplace through Harmonizing Design for Ergonomics and Portability Using TRIZ Methodology

	- P40 Kazushige Oshita, Yujiro Ishihara, Kohei Seike, Ryota Myotsuzono: Association of evening chronotype with prevalence of normal-weight obesity among female university students - P34 Esteban Carrera, Pablo Davila, Yaniel Torres; Applying Game Theory for Work System Design: A Preliminary Mathematical Model Proposal - P51 Odugbemi Odumosu, Olasunkanmi Ismaila, Sidikat Kuye, Olusegun Folorunso: The Development of An Auto-Shut-Off Sleep-Inducing Bed - P67 Camila Casanova-Vise, Carlos Manuel Escobar-Galindo; Ergonomics in Linemen Activities: A Proposal for the Redesign of a Telescopic Pole - P65 Gloria Lilibeth Molina-Quihue, Mayra Milagros Quintanilla-Romero, Carlos Manuel Escobar-Galindo, José Enrique Villalobos-Tupia, Richard Raitt Rodriguez-Rojas: Systemic analysis of musculoskeletal disorders in mechanics during brake shoe replacement on interprovincial buses - P30 Olfa Jlassi, Asma Kheder, Noura Bel Haj, Ines Rassas, Chebbi Soumaya, Taoufik Khalfallah, Aouatef Mahfoudh: Impact of a Positive Work Environment on Musculoskeletal Complaints by Artisanal Weavers in Tunisia - P14 Abdelkrim Benkhaled, Ali Hafed: The Level of Noise in Blacksmithing Workshops in Oum El Bouaghi Province, Algeria - P35 Wilder Marin, Yaniel Torres: Assessing workload in urban solid waste collection: A case study from Medellín, Colombia
15:15 – 15:45	Coffee break and **poster session** - P13 Marin Bačić, Zdravko Pandur, Marijan Šušnjar, Matija Landekić: Exposure to Hand-Arm Vibration (HAV) in Forestry: An Empirical Review - P16 Oleksii Reva, Vasyl Cherniavskyi, Pavlo Mamenko, Kostiantyn Kyrychenko: Forecasting the Impact of Indiscipline among Cadets-Sailors on Maritime Safety and Proactive Ways of its Correction - P18 Dajana Bartulović: Implementation of Artificial Intelligence in Aviation Ergonomics: An Overview - P28 Boris Iliev, Miško Ralev, Tanja Jurčević Lulić, Krešimir Šolić, Danijela Domljan: Differences in head height of the kindergarten children - P39 Emilija Zdraveva: Porosity Assessment of Melt Electrospun PLA - P49 Jasna Blašković Zavada, Marko Slavulj, Mario Ćosić, Jasna Leder Horina: Spatial and Traffic Planning from the Aspect of Mobility and Adjustment of the Environment for People with Reduced Mobility - P57 Martina Lovrenić-Jugović, Joseph Marton, Jasna Leder Horina, Tanja Jurčević Lulić: Assessment and comparison of working postures of electricians in electricity distribution using the REBA method - P79 Evgeniy Lavrov: Ergonomic challenges and methodology for taking into account the human factor in cyber-physical systems - P80 Evgeniy Lavrov, Olga Siryk: Human factor in e-learning. Challenges and methodology for ergonomic support
15:45 – 17:30	**Pre-recorded lectures in session G** (Chair: Tanja Jurčević Lulić) - P27 Lenart Marovt, Danica Dolničar, Klementina Možina: Influence of typography and colour on recognition of information - P70 Laura Krišković, Renata Mekovec, Marija Kuštelega; Keeping up with the aging population: Adapting user interfaces for the elderly - P73 Dorotea Kovačević, Petra Buljat, Maja Brozović: Safety Pictogram on the Packaging Displayed in the Advertisement and Its Effect on Visual Perception - P74 Dorotea Kovačević, Maja Brozović, Klementina Možina: Using a comprehensibility judgement test to assess the effectiveness of new graphical symbols - P78 Cherif Ahmad Tidiane Aidara, Serigne Diagne, Amadou Coulibaly, Balla Moussa Biaye; Ergonomics: Evaluation of additional work generated by agricultural handle tools

	- P26 Kimberly Nathalie Angeles Aspajo, Greta Silvana Tarazona Carrasco, Richard Raitt Rodriguez Rojas, Carlos Manuel Escobar Galindo, José Enrique Villalobos Tupia: Ergonomic analysis of chicken sales in a Peruvian popular market poultry shop - P63 Charmaine P. Yu, Gellian S. Solaña, Annie Rose L. Bohot, Joyce A. Molo, Darry Mhei L. Morales: Ergonomics Risk Factors Among Rice Farmers in the Philippines - P12 Peter Schmid, Max B. Schäfer, Nina M. Stadel, Peter P. Pott, Thomas Maier: Automation potential in the workflow of a scrub nurse - P11 Ferdinand Langer, Mario Milicic, Shian Fernandes, Tabea Böhringer,Thomas Maier: Experimental investigation of surface and padding of a forearm support of a surgical arm assistance system - P32 Irtyah Merchaoui, Samia Machghou, Ines Rassas, Marwa Ben Azaiez, Marouen Hayouni, Neila Chaari, Mohamed Adnene Hanchi: Optimizing architectural space for a better patient and healthcare staff flow traffic in a primary health care facility - P56 Massimiliano Masullo, Mario Alberto Capasso, Aniello Pascale, Francesco Sorrentino, Luigi Maffei: Clean/Dirty Pathways in Hospitals: Modeling and Effectiveness of the Use of a Virtual Reality X Mockup - P37 Constantinos S. Mammas, Adamantia S. Mamma: Cognitive Ergonomics of the Prehospital Damage Control Resuscitation upon AI and 5G Internet to Optimize Outcomes in Civilian Severe Trauma Surgery - P38 Constantinos S. Mammas and Adamantia S. Mamma: Integrated Cognitive Ergonomics of the Remote Evaluation of the Grafts with Robotics and Mobile PCR Analyzer in Solid Organ Transplantation
20:00 – 23:00	**Closing and congress dinner, Novinarski dom, 1st floor, Perkovčeva street 2**

__Notes to presenters__

Oral presentation

Each presenter has 10 minutes for the presentation and 5 minutes for discussion.
The discussion will follow immediately after each individual presentation.
Invited speakers have 20 minutes for the presentation.
It is necessary to bring a presentation on a USB drive and submit it to the technical team **at the beginning of the day** in which you are scheduled to present.

All kinds of oral presentations (on site and pre-recorded lecture) will be given in the order in which they are listed in the program.

Poster presentation

Authors are requested to be near their posters during the scheduled time of poster session.