



11th International Ergonomics Conference
ERGONOMICS 2026
1st to 3rd October 2026, Dubrovnik, Croatia

Conference Program

Thursday, October 1 st , 2026	
Location: CAAS Dormitory Dubrovnik, Don Frana Bulića 4	
2:00 pm	FEES Council meeting – Hall 4
4:00 – 6:00 pm	Registration of Authors and Participants
6:00 pm	Welcome drink – Atrium
Friday, October 2 nd , 2026	
Location: CAAS Dormitory Dubrovnik, Don Frana Bulića 4	
8:00 am – 12:00 pm	Registration of Authors and Participants
Ivana Supeka Hall	
9:00 – 9:15 am	Opening Ceremony
Invited lectures – Chair Jasna Leder Horina	
9:15 – 9:45 am	Andrew Thatcher , Humanity-Centered HFE: Technology, AI and Sustainability
9:45 – 10:15 am	Eric Wang , Human Nature: The Root of HFE for AI
10:15 – 10:45 am	Alessandro Naddeo , From Computational Ergonomics to Inverse Comfort Design: Evolving Comfort Prediction into Design for Perception (DfP)
10:45 – 11:00 am	Coffee break - Atrium
Lectures in session I – Chair Uwe Reischl	
11:00 – 11:15 am	Jasna Leder Horina, Bernard Michez , Pascal Etienne, Aleksandar Zunjic, Pedro Ferreira and Gyula Szabó. Artificial Intelligence: Promises, Limitations, Standards, Risks and Impacts on Human Factors Domain
11:15 – 11:30 am	Ilaria Chiriani , Yu Song, Iolanda Fiorillo, Peter Vink and Alessandro Naddeo. Use of Augmented Reality for Proxemics Studies
11:30 – 11:45 am	Jánosné Könyves and Gyula Szabó . Occupational Safety in Micro and Small Enterprises: Accident Losses, Working Conditions and Communication Barriers in the Hungarian Electrical Sector
11:45 am – 12:00 pm	Lasse Schrøder Jakobsen , Sebastian Skals, David Høyrup Christiansen, Jan Sørensen, Charles Pontonnier and Pascal Madeleine. Bridging the Gap Between Laboratory Evidence and Workplace Adoption of Occupational Exoskeletons: The RELAX Protocol and Preliminary Supporting Evidence
12:00 – 12:15 pm	Tihomir Opetuk, Maja Trstenjak , Goran Dukic and Adriana Stubičar. Ergonomic Assessment of Military Operational Postures



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12:15 – 12:30 pm	Violeta Firescu. Beyond Keywords: AI vs. Text Search for Exploring New Trends in Human Factors and Ergonomics in Sustainable Manufacturing
12:30 – 12:45 pm	Dorotea Kovačević, Daria Mustić , Josip Bota and Iva Šarčević. The Influence of Visual Structural Elements of Packaging Design on User Experience
12:45 – 1:00 pm	Yaniel Torres , Ornwipa Thamsuwan and Alfredo Patrón. EMG-Based Evaluation of a Passive Upper-Limb Exoskeleton During a Simulated Liposuction Task: A Pilot Feasibility Study
1:00 – 2:00 pm	Lunch break - Atrium
Hall 4	
2:00 – 4:00 pm	Workshop - Practice of ergonomics: the strengths and limits of standards, when and how to use them (organized by FEES)
Poster Foyer and Atrium	
4:00 – 4:30 pm	Poster session & coffee break
5:30 pm	A Surprise Excursion
Saturday, October 3rd, 2026	
Location: CAAS Dormitory Dubrovnik, Don Frana Bulića 4	
8:00 am – 12:00 pm	Registration of Authors and Participants
Ivana Supeka Hall	
Invited lectures – Chair Emilija Zdraveva	
9:00 – 9:30 am	Henrijs Kalkis , Smarter Work or Weaker Thinking? The Role of Ergonomics in the AI-Driven Industry 5.0
9:30 – 10:00 am	Uwe Reischl , Solar Heat Radiation Protective Vest
Lectures in session II – Chair Diana Milčić	
10:00 – 10:15 am	Marin Bačić , Zdravko Pandur and Marijan Šušnjar. Hand–Arm Vibration Transmission in Chainsaws: Implications for Protective Glove Selection
10:15 – 10:30 am	Karin Reinhold , Ari Känkänen, Meelis Pohlak and Susanna Tella. Designing for Comfort, Fit and Usability: Ergonomic Development of the Reusable Half-Mask
10:30 – 10:45 am	Ženija Roja , Karina Venediktova and Henrijs Kalkis. Psychosocial Risks and Subjective Well-Being among Employees in Public Administration
10:45 – 11:00 am	Adrian Vartic, Inguna Ebela, Danute Razuka-Ebela, Henrijs Kalkis, Ženija Roja and Romualds Razuks . Psychological, Lifestyle and Health Consequences of Night Shift Work Among Young Adults: Evidence from a Latvian Cross-Sectional Study
11:00 – 11:15 am	Olasunkanmi Ismaila , Mohammed Afolabi, Desmond Oladeji, Nurudeen



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	Adekunle and Hamidu Sanusi. A Mathematical Model for Predicting Spinal Shrinkage in Engineering Students Under Mental Load Using Stevens' Power Law
11:15 – 11:30 am	Coffee break - Atrium
CEEPUS PhD Lectures in session III – Chair Anca Draghichi	
11:30 – 11:45 am	Marko Čeredar , Aleksandar Sušić, Josip Hoster and Tanja Jurčević-Lulić. Biomechanical and Ergonomic Evaluation of Ladder Ascent under Representative Ladder and Task Conditions – a case study
11:45 am – 12:00 pm	Mihaela Kristić , Ana Kešelj Dilberović and Željka Car. Analyzing the Relationship Between Contextual Parameters and User Experience in Holographic-Based Applications
12:00 - 12:15 pm	Marwan Babiker , Ženija Roja and Henrijs Kalkis. Technostress as a Digital Job Demand: Its Association with Burnout Among Healthcare Professionals in Primary Care
12:15 – 12:25 pm	Darina Duplákóvá, Matej Cichy , Viktória Tutokyová, Patrik Sloboda and Enes Sukic. Multimodal Approach to Non-Invasive Monitoring of Ergonomic Risk and Fatigue During Repetitive Activity – Case Study
12:25 – 12:35 pm	Darina Duplákóvá, Lucia Knapčíková, Viktória Tutokyová , Matej Cichý and Dejan Kojić. Ergonomic Redesign Through Digital Human Modeling for Physical Workload Reduction
12:35 – 12:45 pm	Zoltán Herényi, Ricardo P. Arciniega-Rocha , Julio Alberto Pambabay Santacruz, Vanessa C. Erazo-Chamorro, Sonia Ruiz Martínez and Gyula Szabó. Tool Sizing and Ergonomic Risk Assessment for Hand Tool Use in Latin American Workers: An Integrated EMG–MCDM–Behavioural
12:45 – 1:45 pm	Lunch break - Atrium
Lectures in session IV – Chair Tanja Jurčević Lulić	
1:45 – 1:55 pm	Odugbemi Odumosu , Oluwakemi O. Odumosu and Olasunkanmi Ismaila. A Novel Fuzzy Logic Approach to Sleep Latency Assessment Among Adults in Southwestern Nigeria
1:55 – 2:05 pm	Olasunkanmi Ismaila , Desmond Oladeji, Nurudeen Adekunle and Hamidu Sanusi. Development of Work Severity Index for Bakery Operations
2:05 – 2:15 pm	Hazel Caparas , Jeremy Laurence Bañez and Raph John Miranda. Development of a Decision Support Model for Reducing Students' Mental Workload in Industrial Engineering: Basis for Curriculum Redesign
2:15 – 2:25 pm	Constantinos S Mammias and Adamantia S. Mamma. Optimizing Damage Control Resuscitation and Outcomes in the Combat Casualty Care by Integrating Wearable Cobotics with AI, AR and Spatial Computing
2:25 – 2:35 pm	Quyen Tuong Vu and Carlos Sena Caires. Evaluating Bamboo-Based Design: An Assessment of Sustainable Chair and Table Models



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2:35 – 2:45 pm	Nguyen Thi Thanh Huyen , Trinh Thuy Anh, Liem Viet Ngo and Huynh Kim Ton. Customer journey design and AI – driven capability in experiential services
2:45 – 2:55 pm	Linh Nguyen Tran Cam and Nguyen Le Son Trang. Augmented Reality in Online Fashion Shopping: Effects on User Experience and Purchase Intention
Poster Foyer and Atrium	
3:00 – 3:30 pm	Poster session & coffee break
Ivana Supeka Hall	
3:30 – 4:00 pm	Closing Ceremony (Best Presentation Awards)
6:00 pm	Dubrovnik city tour
8:00 pm	Conference dinner - Gradska kavana Arsenal Restaurant Address: Pred Dvorom 1
POSTER PRESENTATIONS – Poster Foyer	
AUTHORS ARE KINDLY REQUESTED TO STAND BY THEIR POSTERS DURING THE POSTER PRESENTATION SESSIONS!	
Alin Gaureanu, Maria Elena Boatca, Diana Sala and Anca Draghici. The Redistribution of Cognitive Load in Academic Work Supported by Generative Artificial Intelligence – An Ergonomic Study of University Staff in Romania	
Anca Draghici, Ioana-Gabriela Cioata, Maria Elena Boatca and Alin Gaureanu. Human-Centric Circular Economy: Integrating Ergonomics and Wellbeing for Sustainable Systems	
Anca Draghici, Laria-Maria Trusculescu, Andra Diaconescu and Silviu Vert. Virtual and Augmented Reality Approach for Cognitive Ergonomics Risk Management	
Andra Diaconescu, Maria Elena Boatca and Anca Draghici. A Comparative Analysis on Health and Productivity in Workplaces Focusing Ergonomic Stress Factors	
Beata Mrugalska, Brigita Gajšek and Maciej Niemir. Artificial Intelligence Applications Supporting the Revised NIOSH Lifting Equation	
Danica Dolničar, Ana Žnidaršič and Klementina Možina. The Impact of Aesthetic Expressiveness on the User Experience of Cookbooks	
Darry Mhei Morales and John Philip Galban. The Impact of Mental Workload and Cognitive Slips on the Level of Awareness of Traffic Signs	
Dorotea Kovačević, Rahela Kulčar, Marina Vukoje Bezjak and Diana Milčić. Visual Attention in Packaging Design Incorporating a Thermochromic Pictogram	
Emilija Zdraveva. Mechanical performance of electrospun PCM materials managing thermal comfort	
Evgeniy Lavrov and Olga Siryk. Overcoming Crisis in University E-Learning: An Ergonomic Analysis of Digitalization Risks	



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Evgeniy Lavrov, Olga Siryk and Zhanat Alisheva. Human–Machine Interaction Control in Automated Systems: An Exploratory Time-Scale Dynamic Approach
Evgeniy Lavrov. Risk Analysis of Latent Transcendent-Destructive Factors in Human-Machine Systems: A Pilot Study
Hrvoje Haramina, Jasna Blašković Zavada, Jasna Leder Horina and Marko Slavulj. Subjective Perception of Physical and Cognitive Ergonomics in Tram Transport During Peak Loads
Irena Šabarić Škugor, Franka Karin and Nikolina Manda Šarić. Traditional ethno motives as inspiration for modern clothing souvenirs
Iva Biščan, Marko Čeredar, Tanja Jurcevic Lulic, Jasna Leder Horina and Martina Lovrenić-Jugović. Ankle Joint Loading in Ballet Positions
Jasna Leder Horina, Damir Budimir, Niko Jelušić and Julijan Jurak. Driver Workload in Traffic-Flow and Route Optimization
Jasna Leder Horina, Dora Strancarić, Jasna Blašković Zavada and Karlo Babojelić. Environmental Ergonomics Assessment of Road Traffic Noise on Major Urban Roads in Zagreb
Josip Bota, Korina Holjevac and Rea Franković. Thumb Slit, Pull Tab, and Color Cue Comparison in Paperboard Packaging Opening Design
Juraj Šebo, Miriam Šebová, Galina Robertstone and Jana Kunecová. Digitalization and the Development of Products with Reduced Health Risks: Evidence from European Manufacturing Companies
Klementina Možina, Dorotea Kovačević, Tanja Medved, Barbara Blaznik, Petra Buljat and Iva Šarčević. Contextual effects of typeface and pictogram on visual processing
Maria Elena Boatca, Alin Gaureanu, Anca Draghici and Andra Diaconescu. The Convergence of Biomechanical and Biochemical Hazards in Dentistry: Analysis of Ergonomic Risks and Microplastics Exposure
Martina Lovrenić-Jugović, Jasna Leder Horina, Tanja Jurčević Lulić and Diana Milčić. The impact of time spent using computers in engineering design offices on the risk of musculoskeletal disorders assessed by the ROSA method
Mei-Hsiang Chen, Lan-Ling Huang, Yen-Chun Peng and Chian-Pang Lin. AI-Enabled Personalized Precision Exercise Prescriptions for Community-Dwelling Older Adults: A Pilot Study
Oleksii Reva, Serhii Borsuk, Volodymyr Kamyshyn, Pavlo Mamenko, Shahin Nasyrov, Костянтин Кириченко, Anatolii Ivliiev. Development of Technology for Assessing the Consistency of Fuzzy Hazard Models for Violations of Horizontal Flight Level Norms
Petra Zelić, Renata Hrženjak, Ksenija Doležal and Blaženka Brlobašić Šajatović. Ergonomic Pattern Engineering in Women's Mountaineering Clothing Design
Sandro Tokić and Davor Sumpor. Visual Attention and Distraction in Cycling: Insights from Recent Studies