Welcome to the XX Congress of the International Ergonomics Association!

The IEA2018 Congress updates sixty years of research and good practices around the world in the field of ergonomics and human factors. It brings together a very large community of researchers and practitioners, more than sixteen hundreds, from over seventy countries. A global and multidisciplinary event, where various disciplines and different cultures discuss and interact. The diversity often favorites creativity, capable of being put into practice. It is our hope and wish to inspire you with new ideas and creative solutions.

Florence, cradle of the Renaissance, can be the most suitable place to host and welcome the experts of a science aimed at designing and making a better world centered on human beings who want to build their own future and improve the quality of life for all, no one left behind.

Creativity and Ergonomics for all and forever!

Sebastiano Bagnara  
Chair of the Scientific Committee, XX IEA Triennial World Congress

Elena Beleffi  
Chief of the Scientific Secretariat

Riccardo Tartaglia  
Chair XX IEA Triennial World Congress

Sara Albolino  
Co-chair XX IEA Triennial World Congress
Activity Theories for Work Analysis and Design
Process Control
Forensic Human Factors
Professional Affairs
Organizational Design and Management
Work With Computing Systems - WWCS
Human Simulation and Virtual Environments
Aerospace Human Factors and Ergonomics
Affective Design
Ergonomics in Design
Ergonomics in Design for All
Anthropometry
Auditory and Vocal Ergonomics
Musculoskeletal Disorders
Psychophysiology in Ergonomics
Visual Ergonomics
Ergonomics in Advanced Imaging
Building and Construction
Ergonomics in Manufacturing
Transport Ergonomics and Human Factors (TEHF)
Aging
Agriculture
Ergonomics for Children and Educational Environments
Gender and Work
Healthcare Ergonomics
Safety & Health
Slips, Trips and Falls
Human Factors and Sustainable Development
History and Stories of Human Factors
Poster Session
STP standing committee meeting
Ergonomics in the Future world
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<tr>
<th>Time</th>
<th>Auditorium</th>
<th>Michelangelo</th>
<th>Brunelleschi</th>
<th>Raffaello</th>
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<th>Galileo</th>
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</table>
| 09:00-11:15  | **WORKSHOP**  
CHRONICLE WORKSHOP IN INTERVENTION AND EVALUATION RESEARCH AND PRACTICE | **WORKSHOP**  
SEDENTARY WORK, WHAT’S THE EFFECTIVENESS OF WORKPLACE INTERVENTIONS?       | **WORKSHOP**  
PROTOTYPING HMI FOR PARTIALLY AND HIGHLY AUTOMATED VEHICLES: A BALANCED HUMAN SYSTEMS INTEGRATION APPROACH | **WORKSHOP**  
ERGONOMICS AS A DESIGN DISCIPLINE: REDESIGNING A LOCAL CONTROL ROOM IN AN OIL INDUSTRY | **WORKSHOP**  
ENHANCING YOUR PRESENTATION COMPETENCIES – A CHALLENGING WORKSHOP          |
| 11:15-13:30  | **WORKSHOP**  
MUSCULOSKELETAL DISORDERS AS A FATIGUE FAILURE PROCESS: A NEW FOUNDATION FOR RISK ASSESSMENT |                                                                                   | **WORKSHOP**  
PATIENT JOURNEY MAPPING                                                                 |                                                                                   | **WORKSHOP**  
WORKSPACE LAB: GETTING AROUND USER INVOLVEMENT AND PLANNING PARTICIPATORY DESIGN |
| 13:30-14:00  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 13:30-14:00  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 14:00-15:30  |                                                                                   | **Observations in actual work situations: Is this method still a key part of ergonomics practices? | **Digital Healthcare**                                                                 | **Disentangling the physical activity health paradox** | **Ergonomics in Virtual Reality** | **Objective assessment of physical work exposure: how to measure, analyse and interpret data** |
| 15:30-15:45  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 15:30-15:45  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 15:45-17:00  | **OPENING CEREMONY**  
Opening addresses  
Welcome addresses                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 17:30-18:30  | **PLENARY 1**  
Healthcare, Innovation in Healthcare  
• CARAYON PASCALE  
• WESTBROOK JOHANNA  
• BRAITHWAITE JEFFREY  
Walking the tightrope between creativity and productivity: Culture, resilience and complexity science  
Comments by COSTA GIOVANNI |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
<p>| 18:30-19:30  | <strong>MYSTERIUM®</strong>, a creative performance by Antonio Artese                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |
| 19:30-20:30  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                  |</p>
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<td>09:00-11:15</td>
<td>WORKSHOP COLLABORATIVE ROBOTICS AND ERGONOMICS</td>
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<td>11:15-13:30</td>
<td>WORKSHOP ASSESSING BIOMECHANICAL RISK WITH EAWS – LEARN HOW TO APPLY THE INTERNATIONAL STANDARD: ERGONOMIC ASSESSMENT WORKSHEET</td>
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<td>13:30-14:00</td>
<td>BREAK</td>
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<td>14:00-15:30</td>
<td>WORKSHOP DESIGNING WORK SYSTEMS USING THE ACO3 (ACTIVITY-CENTERED DESIGN) FRAMEWORK</td>
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<td>15:30-15:45</td>
<td>WORKSHOP EYE TRACKING METHODOLOGY IN SCREEN-BASED USABILITY TESTING</td>
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<td>15:45-17:30</td>
<td>WORKSHOP HOW TO PERFORM AN ERGONOMIC WORKPLACE ANALYSIS?</td>
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<td>17:30-18:30</td>
<td>WORKSHOP IDENTIFYING CRITICAL SUCCESS FACTORS OF ERGONOMICS PROGRAMS. NECESSARY CONDITION ANALYSIS (NCA) AND ITS APPLICATION TO PREVENTION AND MANAGEMENT OF WORK-RELATED MUSCULOSKELETAL DISORDERS</td>
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<td>18:30-19:30</td>
<td>WORKSHOP ERGOCHECK: A SIMPLE TOOL FOR PRELIMINARY ASSESSMENT OF BIOMECHANICAL OVERLOAD AND OTHER MAIN RISK FACTORS In application of the ISO TR 12295</td>
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<td>19:30-20:30</td>
<td>WELCOME COCKTAIL</td>
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| 08:30-09:30 | **PLENARY 2** Agriculture Sustainability   | Palazzo Congressi | Auditorium      | ABRAHÃO ROBERTO FUNES Agricultural work in the 21st century: new trends and challenges  
|             |                                   |                | Michelangelo    | Comments by ROSECRANCE JOHN                                       |
|             |                                   |                | Brunelleschi    | THATCHER ANDREW Ergonomics tools for addressing global problems of the twenty-first century  
|             |                                   |                | Raffaello       | Comments by FALZON PIERRE                                          |
| 09:30-09:45 | **BRAIN REFRESH**                 | Palazzo Congressi |                |                                                                      |
| 09:45-11:15 | Human Factors and Sustainable Development 01/Building and Construction | Palazzo Congressi | Auditorium      | Ergonomics in Design 08 / Others                                    |
|             |                                   |                | Michelangelo    | Ergonomics in Design 03 / Building and Construction                  |
|             |                                   |                | Brunelleschi    | Ergonomics for Children and Educational Environments_01/ Education and Training |
|             |                                   |                | Raffaello       | Slips, trips and falls 04 / Surfaces                                |
|             |                                   |                | Botticelli      | Human Factors and Sustainable Development_03/Others                 |
| 11:15-11:30 | **BRAIN REFRESH**                 | Palazzo Congressi |                |                                                                      |
| 11:30-13:00 | Human Factors and Sustainable Development 02/Manufacturing_ Healthcare_ Education and Training | Palazzo Congressi | Auditorium      | Prospective Ergonomics: Ideating and designing future things - PART 1 |
|             |                                   |                | Michelangelo    | Ergonomics in Design 11 / Healthcare 01 and Users’ involvement      |
|             |                                   |                | Brunelleschi    | Ergonomics for Children and Educational Environments_02/ Education and Training |
|             |                                   |                | Raffaello       | Psychophysiology in Ergonomics 03- Healthcare/other                 |
|             |                                   |                | Botticelli      | Human Factors and Sustainable Development_04/Others                 |
| 13:00-13:15 | **BRAIN REFRESH**                 | Palazzo Congressi |                |                                                                      |
| 13:15-14:45 | Applying human factors to medical device design | Palazzo Congressi | Auditorium      | Prospective Ergonomics: Ideating and designing future things - PART 2 |
|             |                                   |                | Michelangelo    | The scales and dimensions of collective activity                    |
|             |                                   |                | Brunelleschi    | Ergonomics for Children and Educational Environments_03/ Education and Training |
|             |                                   |                | Raffaello       | Psychophysiology in Ergonomics 01- Transport                       |
|             |                                   |                | Botticelli      | Ergonomics in Design 10 / Others                                   |
| 14:45-15:00 | **BRAIN REFRESH**                 | Palazzo Congressi |                |                                                                      |
| 15:00-16:00 | **PLENARY 3** Creativity, Musculoskeletal   | Palazzo Congressi | Auditorium      | KIRSH DAVID The importance of chance and interactivity in creativity  
|             |                                   |                | Michelangelo    | Comments by PACI DALÒ ROBERTO                                      |
|             |                                   |                | Brunelleschi    | OCCHIPINTI ENRICO Biomechanical overload and prevention od WMSDs: actual and future challenges  
|             |                                   |                | Raffaello       | Comments by ROSAL GUSTAVO                                         |
| 16:00-17:00 | **TRIENNIAL AND FELLOW AWARD SESSION** | Palazzo Congressi |                |                                                                      |
| 17:00-17:15 | **BRAIN REFRESH**                 | Palazzo Congressi |                |                                                                      |
| 17:15-18:45 | Human Factors and Sustainable Development 05 / Others | Palazzo Congressi | Auditorium      | Ergonomics in Design 09 / Others                                    |
|             |                                   |                | Michelangelo    | Ergonomics in Design 17 / Others                                   |
|             |                                   |                | Brunelleschi    | Healthcare 15/ MSD                                                  |
|             |                                   |                | Raffaello       | Psychophysiology in Ergonomics 02- Miscellanea                      |
|             |                                   |                | Botticelli      | Standardisation in Ergonomics                                       |

**Poster Session 1**  
12:30 - 14:00  
Passi Perduti  
Palazzo Congressi
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<td>08:30-09:30</td>
<td>Healthcare 13/ care in the community context Tertiary education in Ergonomics and Human Factors: Quo vadis? - Current practice and challenges Work With Computing Systems - WWCS_01/ ICT Organizational Design and Management 01/ Education and Training/Organizational design for training and education Ergonomics in Design for All-01 / Building and Construction Ergonomic analysis of work activity and training, evolutions of basic paradigms and creativity in practices Evaluation of Job Related Health Hazards of Female Agricultural workers</td>
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<td>Ergonomics and Human Factors in Radiology: A good test bed for a systemic approach to the visual, organizational and cognitive ergonomics issues Work, organizational design and sustainable development - PART 1 Safety &amp; Health 02/ Safety at work in construction industries/Building and construction and Others Tertiary education in Ergonomics and Human Factors: Quo vadis? - Emerging practice and future needs Work With Computing Systems - WWCS_02 Organizational Design and Management 02/Manufacturing/Organizational Design for manufacturing Ergonomics in Design for All-02 Aging 01 / Healthcare Agriculture 01 / Agriculture</td>
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<td>13:15-14:45</td>
<td>International Panel for Patient Handling Ergonomics (IPHEME) Symposium Work, organizational design and sustainable development - PART 2 Safety &amp; Health 02/ Healthcare/ safety at work Professional Ergonomists Education, state of the existing programs Shift-Work and Performance Comparison of Ergonomic Rules and Implementation Between Countries Ergonomics in Design for All-03 Human Factors Driven Technology as facilitator of Autonomous Aging HISTORY AND STORIES OF HUMAN FACTORS Special session in memory of Neville Moray: history, stories, and research should be fun</td>
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<td>Advances in Exposure Assessment Furthering the Understanding of Human Vibration Exposures Extension of RNLE (Revised NIOSH Lifting Equation) in complex and variable lifting tasks (in memory of Thomas Waters) Working conditions surveys and ergonomics Safety &amp; Health 05/ Safety at work in agriculture and others Safety &amp; Health 01/ Healthcare/ safety culture in healthcare Organizational Design and Management 04/Others/ work organization, environment and workers Designs for Accessibility in Home Appliances Aging and physical activity at work TC Meeting - DHMS (formerly HSVE) 16:00 Agriculture 02/ Agriculture</td>
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<td>08:30-09:30</td>
<td><strong>PLenary 4</strong>&lt;br&gt;Aviation, Resilience&lt;br&gt;- Kohli Samir&lt;br&gt;Managing Humans: Understanding the Man - Man Interface&lt;br&gt;Comments by ChiALASTRI ANTONIO&lt;br&gt;- Hollnagel Erik&lt;br&gt;Creativity in thinking about work: Can we imagine how work is done?&lt;br&gt;Comments by ChiALASTRI ANTONIO</td>
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<td><strong>Ku Smith Award Session</strong>&lt;br&gt;ergonomics/design/creativity in product innovation - PART 1&lt;br&gt;50 Years of Applied Ergonomics - PART 1&lt;br&gt;Healthcare 14/Occupational health&lt;br&gt;Affective Design-01&lt;br&gt;Human factor in aviation; co-adaptation between threats and solutions - PART 1</td>
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<td><strong>Symposium INAIL (Italian National Agency for Labour Risk Prevention) - PART 1</strong>&lt;br&gt;ergonomics/design/creativity in product innovation - PART 2&lt;br&gt;50 Years of Applied Ergonomics - PART 2&lt;br&gt;Healthcare 09/assessment tools and methods / Sports and Leisure&lt;br&gt;Affective Design-02&lt;br&gt;Human factor in aviation; co-adaptation between threats and solutions - PART 2</td>
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<td><strong>Symposium INAIL (Italian National Agency for Labour Risk Prevention) - PART 2</strong>&lt;br&gt;ergonomics in design 12 / healthcare 02&lt;br&gt;ergonomics in design 01 / transport military&lt;br&gt;ergonomics in design 14 / healthcare&lt;br&gt;HFE and green design of the built environment&lt;br&gt;psychophysiology in Ergonomics</td>
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<td><strong>Plenary 5</strong>&lt;br&gt;Design, Interaction Design&lt;br&gt;- Jenkins Daniel&lt;br&gt;Evidence-based design: The role of human factors in inspiring and informing the design process&lt;br&gt;Comments by HIGNETT SUE&lt;br&gt;- CHAPMAN LORRAINE&lt;br&gt;The More Things Change, The More They Stay The Same - Evolutions in Design Practice</td>
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<td><strong>ergonomics in the future world, north atlantic countries / Ergonomics in the future world, eastern europe countries / Ergonomics in the future world, african countries</strong></td>
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<td>18:00-19:00</td>
<td>Performance “MPE - mental protective equipment” by Emma and Silvana Bagnato and Vladimiro Gentili (Gruppo ASA)&lt;br&gt;TC Meeting - Activity Theories for Work Analysis and Design&lt;br&gt;TC Meeting - Work With Computing System WWCS&lt;br&gt;TC Meeting - Anthropometry&lt;br&gt;TC Meeting - Affective design&lt;br&gt;TC Meeting - Building and construction</td>
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<td><strong>Social Dinner</strong></td>
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<td>09:30-09:45</td>
<td>A partnership between citizens and healthcare organizations to assess and improve patient safety</td>
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<td>Ergonomics challenges in the rapidly evolving digital world of children internationally</td>
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<td>Healthcare 07/ resilience and complexity of care</td>
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<td>13:00-13:15</td>
<td>Novel technologies in solid organ transplantation: all that glitters is not gold</td>
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<td>Ergonomics aspects of sit-stand workstation use in modern offices - PART 1</td>
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<td>ERGONOMICS IN THE FUTURE WORLD, ASIAN COUNTRIES</td>
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<td>18:00-19:00</td>
<td>TC Meetings - Healthcare Ergonomics</td>
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<td>19:00-20:00</td>
<td>TC Meeting - Science, Technology and Practice</td>
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<td>Ergonomics in defence: world trends with reference to the emerging countries (Defence) MAUNDFAR</td>
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<td>Comments by Andrew Todd</td>
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<td>Translating theory into action (Quality in Healthcare) PETER CUNIAH</td>
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<td>Comments by Stavros Pinius and Francesco Verne</td>
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<td><strong>PLENARY 7</strong></td>
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<td>Comments by COLOMBINI DANIELA</td>
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<td>Preservation or prediction: how ergonomics and human factors will design the museum of the future</td>
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<td>09:45-11:15</td>
<td><strong>IEA/LIBERTY MUTUAL MEDAL - awards and lectures</strong></td>
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<td>Creativity in Design of Products, Systems, and User Interfaces: Theory, Methods and Applications - PART 1: THEORY</td>
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<td>Ergonomics in Manufacturing_03</td>
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<td>Aerospace Human Factors and Ergonomics_03/ Aerospace</td>
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<td>Creativity in Design of Products, Systems, and User Interfaces: Theory, Methods and Applications - PART 2: METHODS</td>
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<td>Creativity in Design of Products, Systems, and User Interfaces: Theory, Methods and Applications - PART 3: APPLICATIONS</td>
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<td>Healthcare 04/ ICT and Advanced Imaging</td>
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<td>Discussion on Whether or Not-and How-to Identify Mistakes and Falls with an Ergonomically Descriptive Label Other Than “Slips, Trips and Falls”</td>
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<td>On-site interventions for prevention and treatment of Work Related Musculoskeletal Disorders. What works and what doesn’t?</td>
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<td><strong>Innovation &amp; Design: a new approach for ergonomics in FCA - PART 1</strong></td>
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<td>Gender, Work and Health in Ergonomics: Evaluating ergonomic interventions as a function of sex/gender-sensitivity</td>
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<td>Transport Ergonomics and Human Factors (TEHF) 06 /Transport</td>
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<td>Anthropometry 03/- Agriculture and Others</td>
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<td>17:45-18:00</td>
<td><strong>BRAIN REFRESH</strong></td>
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<td>18:00-19:30</td>
<td><strong>Innovation &amp; Design: a new approach for ergonomics in FCA - PART 2</strong></td>
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<td>Ergonomics in Design 02 /Automotive Aerospace</td>
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<td>Ergonomics in Manufacturing_02</td>
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<td>Visual Ergonomics_01/ Others</td>
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<td>Slips, trips and falls 01 / Physical impact</td>
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<td>19:45-20:45</td>
<td>**Performance “MPE- mental protective equipment” by Emma and Silvana Bagnato and Vladimiro Garitti (Gruppo ASA)</td>
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<td>TC Meeting - Slips, Trips and Falls</td>
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<td>08:30-09:30</td>
<td>Palazzo Affari</td>
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<td>09:30-09:45</td>
<td>Healthcare 01/ patient safety</td>
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<td>09:45-11:15</td>
<td>The role of technology for quality and safety in laboratory medicine:</td>
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<td>the human factors conundrum of the pre-analytical phase and traceability</td>
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<td>11:15-11:30</td>
<td>Ergonomics and Human Factors in Robotic surgery</td>
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<td>11:30-13:00</td>
<td>The development of Resilience Management Guidelines to protect</td>
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<td>Critical Infrastructures in Europe and worldwide</td>
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<td>13:00-13:15</td>
<td>Ergonomics and Human Factors in Manufacturing</td>
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<td>challenges in Aviation</td>
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<td>14:45-15:00</td>
<td>Ergonomics in Military Context</td>
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<td>15:00-16:00</td>
<td>The development of Resilience Management Guidelines to protect</td>
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<td>Critical Infrastructures in Europe and worldwide</td>
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<td>Healthcare 12/ patient safety</td>
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<td>16:15-17:45</td>
<td>Pathophysiology of Musculoskeletal Disorders: Crossing Thresholds</td>
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<td>Safety &amp; Health 06/ Safety analysis in Automotive, Manufacturing and</td>
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<td>Transport Ergonomics and Human Factors (TEHF) 01/ Automotive</td>
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<td>Musculoskeletal Disorders 04 / All/ Vibrations, Tools and Driving</td>
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<td>Safety &amp; Health 07/ Others/ Safety analysis</td>
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<td>Transport Ergonomics and Human Factors (TEHF) 07 / Transport</td>
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<td>IEA Professional Standards and Education Sub-Committee on Certification</td>
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<td>08:30-09:30</td>
<td><strong>PLENARY 8</strong> Robotics, Artificial Intelligence • BERGAMASCO MASSIMO Virtual Environments and Robotics Technologies for the study of human performance Comments by MARTI PATRIZIA • KARWOWSKY WALDEMAR The Human Use of Artificial Intelligence Comments by BOY GUY</td>
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<td>09:30-09:45</td>
<td><strong>BRAIN REFRESH</strong></td>
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<td>09:45-11:15</td>
<td><strong>Organizational Design and Management 03/Others</strong>/ Work organization, environment and workers Designing tangible interfaces for human wellbeing Ergonomics in Design 04 / Education and Training-01 Visual Ergonomics _04/ ICT_Robotics_Education and Training_Building and Construction Hermeneut Symposia on Human Factors in Cybersecurity Human Simulation and Virtual Environments <em>04/Automotive</em> ICT_Aerospace</td>
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<td><strong>BRAIN REFRESH</strong></td>
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<td>11:30-13:00</td>
<td><strong>Coping with complexity and uncertainty: the role of the BRICplus network in the globalisation of Human Factors and Ergonomics education and training</strong> Ergonomics in Design 07 / Others Ergonomics in Design 05 / Education and Training-02 Visual Ergonomics _02/ Others Anthropometry 02-Manufacturing Human Simulation and Virtual Environments _05/Healthcare</td>
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<td>13:00-13:15</td>
<td><strong>BRAIN REFRESH</strong></td>
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<td>13:15-14:45</td>
<td><strong>Insights into Augmenting Technologies For Improving Human Performance Optimising complex systems through a systems ergonomics approach Ergonomics in Design 13 / Others Human-Machine Cooperation in Safety-Critical System 24U: The “Pluriverse” Design</strong> Human Simulation and Virtual Environments _06/Transport_Military</td>
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<td>14:45-15:00</td>
<td><strong>BRAIN REFRESH</strong></td>
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<td>15:00-16:30</td>
<td><strong>Symposium OECD/WHO/World bank “Quality care: fulfilling the promise of universal health coverage”</strong> Ergonomic Applications for Working Smart and Living Smart Ergonomics in Design 06 / ICT Visual Ergonomics _03 Safety &amp; Health 08/ Others/Safety analysis Ergonomics of built environment</td>
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<td>16:30-16:45</td>
<td><strong>CLOSING SESSION</strong> • Ergonomics in the Future World • Launch IEA 2021 • Closing ceremony</td>
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<td>16:45-18:45</td>
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<td>Dose-response relations between physical exposures in the occupational life and low-back outcomes</td>
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<td><strong>BRAND REFRESH</strong></td>
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<td>Healthcare 16/ patient safety</td>
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<td><strong>BRAND REFRESH</strong></td>
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<td>Central Vascular Lines Management: clinical and organizational aspects as a focus to prevent adverse events</td>
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<td>13:15-14:45</td>
<td>Application of Virtual Reality Technologies in Rehabilitation: The current state of art</td>
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<td><strong>BRAND REFRESH</strong></td>
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<td>Getting ahead of the curve: can we intervene successfully to influence the frequency of medication errors?</td>
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<td>Comprehensive Cost Framework: Relation of Ergonomics and Accounting</td>
<td>Rodrigo Arcuri</td>
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<td>Integrating technology in patient care spaces: Using scenario-based evaluations to compare design alternatives in virtual reality</td>
<td>Deborah Wingler</td>
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<td>Trust in Imperfect Automation</td>
<td>Kaplan Alexandra</td>
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<td>Don’t Rock the Boat: The Role of Social Conformity in Human-Robot Trust</td>
<td>Hancock Peter</td>
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<td>The Relationship between Physiological EEG Signals and Subjective Olfactory Sensation by Fragrant Fabrics Treated by Citrus unshiu Oil Microcapsule</td>
<td>Yi Eunjou</td>
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<td>A new model of learnability measurement based on GOMS</td>
<td>Lee Sangwon</td>
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<td>Anthropometric data for biomechanical hand model</td>
<td>Lee Kyung-Sun</td>
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<td>Efficiency of legacy U.S. Army Combat Uniforms sizing against ANSI/II Male database</td>
<td>Choi Hyej Joo</td>
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<td>A Anthropometric Survey in Kitchen Cabinet Design for Taiwanese Elderly</td>
<td>Lin Yu-Cheng</td>
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<td>Anthropometric data of Chilean male workers</td>
<td>Martínez Marta</td>
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<td>Anthropometry of Mexican workers</td>
<td>Muñiz Morales Irene</td>
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<td>The ergonomics of the “seated worker”*: comparison between postures adopted in conventional and semi-seated chairs in slaughterhouse</td>
<td>Renato Pereira Moro António</td>
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<td>The optimization of ergonomic procedures and decreasing risk of MSDs</td>
<td>Solíts Lukáš</td>
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<td>Holistic planning of material provision for assembly</td>
<td>Goldthahn Leif</td>
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<td>Use of a passive exoskeleton in an industrial working environment: effect on muscle activity and kinematics</td>
<td>Amandels Steven</td>
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<td>Uncertainty of cost components in assessments of working posture by different methods</td>
<td>Waleh Astrom Amanda</td>
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<td>Ergonomics 4.0: An Exoskeleton Case Study for an Automation Industry in Brazil</td>
<td>Balbinotti Giles</td>
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<td>Physical work capacity in pregnant women</td>
<td>Coronado-Rios Alejandro</td>
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<td>Workload estimation system of sequential manual tasks by using muscle fatigue model</td>
<td>See Akihiko</td>
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<td>Integrated FMEA-Fuzzy approach to identify, evaluate and improve the potential risks discovered in an ergonomic analysis</td>
<td>Ferro Dos Santos Eduardo</td>
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<td>Ergonomic analysis on the assembly line of a home appliance company</td>
<td>Henriques De Araujo Junior António</td>
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<td>Ergonomics 4.0 - Standardization as a tool to promote continuous improvement</td>
<td>Varasquin Adriano</td>
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<td>Portable device to measure the force in the fingers of the hands in manufacturing processes with manual tasks</td>
<td>Lopez Millan Francisco Octavio</td>
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<td>Proposal of a guide to select methods of ergonomic assessment in the manufacturing industry in Mexico</td>
<td>Lopez Millan Francisco Octavio</td>
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<td>Workload Analysis of Improved Working Condition in Cold Press Working Group for Manufacturing Company</td>
<td>Suryoputro Muhammad Ragil</td>
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<td>Workload Analysis for Sanding Department in Small Grand Piano Manufacturing Company</td>
<td>Sari Ammaria Dila</td>
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<td>Ergonomics in Projects and Financial Sustainability: An Exploratory Study on ROI in Ergonomics, Applied to an Automotive Industry of Southern Brazil</td>
<td>Balbinotti Giles</td>
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<td>Application of inertial measurement units for movement analysis and ergonomic intervention in work of scaffolders</td>
<td>Lechner Norbert</td>
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<td>Improving lighting quality by practical measurements of the luminance distribution</td>
<td>Van Duijnhoven Juliette</td>
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<td>Lean Construction and Safety</td>
<td>Mufato Angelica</td>
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<td>Assessing thermal comfort in Kernew’s tourist attractions through objective and subjective procedures based on ISO 7730 standard: A field study</td>
<td>Zane Sajad</td>
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<td>The Construction of high-rise building fire escape scene</td>
<td>Hua Qin</td>
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<td>Preconditioning aspects of female work: outsourcing and informal activity</td>
<td>Gemma Sandra F.b.</td>
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<td>Understanding Psychological Harassment in Predominantly Male Occupation and its Effects on Health: Theoretical Reflection from a Feminist Perspective</td>
<td>Génier Marie-Laurence</td>
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<td>Impacts of the Employment Insurance Act on working conditions and health of seasonal Canadian workers: integrating a gender perspective</td>
<td>Bourgeois Claudi-Ann</td>
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<td>Researching the Gender Responsive OSH in Malaysia: Are Regulators Perspectives Any Different from the Employees?</td>
<td>Abd Taib Lillis Suriency</td>
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<td>Business Case: The Role of Ergonomics in Total Worker Health</td>
<td>Heller-Ono Alison</td>
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<td>The early warning system on risk and disaster management: a case study in Brazil</td>
<td>Ribeiro Vanessa Nogueira</td>
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<td>Development of Behavior Markers for Emergency Response Training</td>
<td>Hikono Masaru</td>
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<td>Difficulties of the modern work style in office environment - Qualitative research focusing on the personal opinions of ideal work conditions</td>
<td>Pataki-Bittó Frazsína</td>
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<td>Relationship between group performance and physical synchrony of the members in small groups</td>
<td>Matsui Yoko</td>
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<td>The Adaptability Development of the U-18 Football players in Japan</td>
<td>Hoshi Yasuyuki</td>
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<td>Study on the Influence of CSR Activities of a Professional Baseball Team on Hometown Residents: Case of Nippon Professional Baseball League</td>
<td>Yamakoshi Takaya</td>
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<td>Preliminary study for development of follower’s readiness scale in sports team</td>
<td>Koutaka Satoshi</td>
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<td>Retention Management of Nurses: A Case of University Hospital in Japan</td>
<td>Mizuno Motoki</td>
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<td>Work macroergonomics analysis (anmt method): identification of ergonomic demands in sewing laboratory</td>
<td>Debastiani E Silvia Luzia</td>
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<td>Adoption of Lean and Green Production and its impact on organization</td>
<td>Rathore Bhawana</td>
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<td>How to measure the perceived trust toward artificial intelligence</td>
<td>Park Jaehyun</td>
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<td>Room size influences error monitoring: behavioural and physiological responses</td>
<td>Luo Chengwen</td>
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<td>Comparison of melatonin profile and alertness of firefighters with different work schedules</td>
<td>Taheri Shirin</td>
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<td>Use of presentation of thermal stimuli for enhancing excitement during video viewing</td>
<td>Tsuruno Ryouta</td>
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<td>Measuring a defined emotional stress with surface electromyography at the M. trapezius and M. frontalis</td>
<td>Wagenblast Florestan</td>
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<td>Mental Workload and Performance Measurement in the Driving Task: A Literature Review</td>
<td>Butnem Totapsan</td>
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<td>Estimating in-vehicle distraction through a driver model</td>
<td>Mars Franck</td>
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<td>Rally driver’s eye movements when driving the corner on gravel road – Differences between World Rally Championship and national championship drivers</td>
<td>Hariyama Tomyasu</td>
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<td>Development of research framework for touch-based in-vehicle information systems</td>
<td>Lee Seol Chan</td>
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<td>Visual behaviors and expertise in race driving situation</td>
<td>Kato Takaaki</td>
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<td>Ergonomic approach of the Influence of materials on the user experience in the interior of automobiles</td>
<td>Taita Ribeiro Muniz</td>
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<td>Intelligent in-car health monitoring system for elderly drivers.</td>
<td>Seunghee Hong</td>
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<td>Getting the right culture to make safety systems work in a complex rail industry</td>
<td>Nolan-McSweeney Michelle</td>
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<td>Live to ride, ride to live: The use of Event Charts to capture and investigate loss of control motorcycle events in New Zealand</td>
<td>Hirsch Lily</td>
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<td>The influence of duration of automation on the subjective take-over controllability rating in prolonged conditional automated driving</td>
<td>Jarosch Oliver</td>
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<td>Analysis of Driver Injury Severity in Metropolitan Roads of India through Classification Tree</td>
<td>Sivasankaran Sathish Kumar</td>
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<td>The effects of food packaging on driving performance when eating while driving</td>
<td>Zschernack Swantje</td>
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<td>Musculoskeletal Disorders in Indian School Children due to carrying heavy back packs</td>
<td>Sharan Deepak</td>
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<td>Musculoskeletal disorders in 115 students due to overuse of electronic devices: Risk factors and clinical features</td>
<td>Sharan Deepak</td>
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<td>An ergonomic study and analysis for the Porto Metro drivers cabin area</td>
<td>Aston Jeremy</td>
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<td>A modular air plane seat prototype to determine the optimal biomechanical conditions for the passenger</td>
<td>Tebbache Nadège</td>
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<td>Optimizing Trust in Autonomous systems: Insights from Human-Human Trust Relationships</td>
<td>Kessler Theresa</td>
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<td>Daily shoulder pain and its associations with biomechanical and psychosocial factors among Swedish flight baggage handlers</td>
<td>Bergsten Eva</td>
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<td>Work-related musculoskeletal disorders and risk factors: a cross-sectional study among Chinese flight baggage handlers</td>
<td>Lihua He</td>
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**TUESDAY, AUGUST 28th**

**Human factors related to the use of personal computer: a case study**
Monica Antonio

**How to improve farmers’ work ability?**
Perkiö-Mäkelä Merja

**A study to develop the framework of estimating the cost of replacing labor due to job-loss caused by injuries based on the results from time study in agriculture of Korea**
Hee-Suk Park

**Reducing the pulling force on plastic bag rolls**
Kaminishizono Takeyoshi

**Ergonomics Design - problems in making the project a reality**
Costa Paigy

**ERGONOMICS DESIGN: Creativity in practice, creativity of practice**
Maillard Laura

**TALARI. Design of a technological system for sensor motor rehabilitation of lower limbs after stroke**
Toso Francesca

**Exploring Techniques for Individualized Training: Interacting Effects of Difficulty Adaptation and Personality**
Schroeder Bradford

**Natural thumb movement zone on smartphone with one-handed interaction: Effects of thumb length and screen size**
Kim Hye Chang

**Suggestions for improvement design of the clinical upper extremity rehabilitation equipment in poster**
Mei-Hsiang Chen

**Pot lamps – the social technologies as a democratizing process of ergonomic ideal parameters**
Parreira De Matos Diego Henrique

**Test-retest reliability of a 3d-visual target acquisition**
Dorouin Aaron

**Study of HFE / UE Process Model in Medical Device Development**
Nagao Toru

**A sustainability and user-centered approach towards extending the life-cycle of mobile computers**
Liem Andre

**Effectiveness of stability evaluation by acceleration and angular velocity while operating smartphones**
Oga Yuki

**Comparison of two biofeedback interfaces and their effect on gym exercise quality: A chest press case study.**
Fedele Giuseppe

**Evaluation of IMUs in Sony Watch 3 and for Study of Human Movements**
Fu Qianyi

**Ergonomics of the built environment. main methodologies used in brazil and the most adequate ones to evaluate the interaction between elderly and built environment**
Arruda Koehler Maria De Lourdes

**The role of the ergonomist in the participatory processes: a literature review**
Sirqueira Carla

**Preference towards colour and form of consumer product: A case study with tea cups**
Karmakar Sougata

**Information for tactile reading: a study of tactile ergonomics of packaging for blind people**
Arabori Ribeiro Gisele Yumi

**Interpretability of surround shapes around safety symbols: cross-cultural differences among migrant farmworkers**
Giustetto Ambra

**Accessibility in chatbots in the context of blind users**
V. Torres Cecilia

**Ergonomics in the Built Environment: Survey of factors linked to the work environment in a corporate environment linked to high concentration activities**
Cantele Cristiane

**Treatment effects of Kinesio taping on hand functions for patients with carpal tunnel syndrome**
Zhou Jia-Yi

**Musculoskeletal complaints in hospital nurses in Sofia**
Sloyanova Raklitsa

**Musculoskeletal symptoms in midwives and work related contributory risk factors**
Okayucu Kobra

**Life on the Road: Exposing Drivers’ Tendency to use of mechanical traction**
Shaw Emily

**System of evaluation and treatment of column lumber use of mechanical traction**
Solon De Carvalho Andre

**Musculoskeletal Disorders Among Orthodontists: Risk Factors and Ergonomic Intervention**
Robiels Rux Aurelius

**A quantitative content analysis of L1 and L2 English writings using a text mining approach**
Kaneko Ikuyo

**Case Study: Investigation of Occupational Injury.**
De Ponte Aurea

**Ergonomic Analysis of Risk Factors in Productive Sectors of Chile and the relation with presentation of Upper Limb Musculoskeletal Symptomatology**
Cerdá Díaz Leonidas

**A study on effects of muscle of lower limb associated with whole-body vibration**
Lu Shih-Yi

**The effect of short time computer work on muscle oxygenation in presence of delayed onset muscle soreness**
Samani Afshin

**Prediction Effects of Personal, Psychosocial, and Occupational Risk Factors on Low Back Pain Severity Using Artificial Neural Networks Approach in Industrial Workers**
Darvishi Ebrahim

**“Reducing Musculoskeletal Pains of Operating Theatre Nurses”**
Hoppe Peter

**Development of an app to motivate employees to make healthy choices in physical work**
De Kraker Heleen

**Evaluation of Arduino EMG system**
Kim Dae-Min

**An epidemiological survey of musculoskeletal disorders - A case study of a university in northern Taiwan**
Chen Zhi Xuan

**A creative way to prevent musculoskeletal Disorders of upper limbs and back. Liftover, a new auxilium for workers**
Mauro Davide

**Acting in the Work Claims – factory in Brazil**
Alves Oliveira Thiago

**AUVFit – A strategy from AUV in order to prevent musculoskeletal disorders**
Lebersorg-Likar Julia

**The biomechanical overload of the rachis in push and pull activities: historical revision, state of the art and future prospects in the light of the new high-sampling digital dynamometers and the multitask features of work in the workplace**
Placci Marco

**Commercial kitchens: monthly cycle**
Ardissonne Sergio

**Alternations between physical and mental tasks – a viable option for job rotation?**
Mixer Susanna

**Most common mistakes in the evaluation of jobs and the application of methodologies**
Bolivar Cabarcas Yollette

**Participatory ergonomics for reducing manual tasks injury risks: Evidence and implementation lessons learned.**
Dennis Gary

**Participatory intervention in the construction industry – A cluster randomized controlled trial**
Brandt Mikkel

**Capacity index for work, psychosocial risk of work and musculoskeletal symtomatology in workers of a meat processing industry in Portugal**
Lima Inês

**Prevalence of work-related musculoskeletal diseases and disability in construction workers in Ankara**
Yüksel Selim

**Difference between real manipulated weight and advised limit for dynamic asymmetrical manual handling tasks in construction Chilean workers.**
Oliveiras Pédrola Giovanni

**Work-related musculoskeletal risk factors among watchmakers**
Zane Mohsen

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<th>WEDNESDAY, AUGUST 29TH</th>
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<tr>
<td>Assessment of occupational vibration on fire x track harvesters in forest harvesting</td>
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<td>Preventing Back Injury In Caregivers Using Real-time Posture-based Feedback</td>
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<td>Reframing Participative Ergonomics in a contemporary work environment: challenges, facilitators and impacts.</td>
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<td>A participatory ergonomic intervention aiming at reducing physical exertion and musculoskeletal pain among childcare workers - a cluster-randomised controlled trial</td>
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<td>Service design in the workplace: the creation of an occupational health physiotherapy service concept in Estonia</td>
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<td>Two Musculoskeletal Impairments among Ambulatory Multiple Sclerosis Patients</td>
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<td>Sociotechnical systems barriers to safe medication review in primary care</td>
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<td>Rhabilitation recovery of the working gesture of the injured at work. Experiences CRM Inail Volterra and future perspective.</td>
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<td>Perception of pesticide contamination risk in rural workers with low schooling level</td>
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<td>Design for Plus Size People</td>
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<td>Train the trainers. Dissemination of ergonomics for vocational schools</td>
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<td>Coping with chronic disorders in the workplace : worker strategies and difficulties</td>
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<td>Can interventions based on user interface design help reduce the risks associated with smartphone use while walking?</td>
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<td>Patterns and predictors of work-related musculoskeletal disorders among tricycle (keke nappe) riders in Nigeria</td>
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<td>Virtual ergonomic work design for older and performance-restricted workers</td>
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<td>Accessibility and ergonomics: Study of multipurpose buildings</td>
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<td>Employing game engines for ergonomics analysis, design and education</td>
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<td>Colour in Glossolalia: “As Long it’s Black” (In Western Culture)</td>
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KEYNOTE SPEAKERS

Roberto Funes Abrahão
University of Campinas (UNICAMP)
Brazil

August 27th, 2018
08.30-09.30
Agricultural work in the 21st century: new trends and challenges

Pascale Carayon
University of Wisconsin-Madison
U.S.A.

August 26th, 2018
17.30-18.30
Human-centered design for patient safety

Waldemar Karwowski
University of Central Florida
U.S.A.

August 30th, 2018
08.30-09.30
The Human Use of Artificial Intelligence

Enrico Occhipinti
EPM International / University of Milan
Italy

August 27th, 2018
15.00-16.00
Biomechanical overload and prevention od WMSDs: actual and future challenges

Patrizia Asproni
President at Industry and Culture Foundation
Italy

August 29th, 2018
15.00-16.00
The More Things Change, The More They Stay The Same - Evolutions in Design Practice

Lorraine Chapman
Macadamian Technologies
Canada

August 28th, 2018
08.30-09.30
Virtual Environments and Robotics Technologies for the study of human performance

Erik Hollnagel
University of Copenhagen
Denmark

August 28th, 2018
15.00-16.00
Creativity in thinking about work: Can we imagine how work is done?

Samir Kohli
The Erring Human®
India

August 28th, 2018
08.30-09.30
Managing Humans: Understanding the Man-Man Interface

Andrew Thatcher
School of Human and Community Development
South Africa

August 27th, 2018
08.30-09.30
Ergonomics tools for addressing global problems of the twenty-first century

Giorgio Striano
Luxottica Group
Italy

August 29th, 2018
08.30-09.30
Ergonomics in defence: world trends with reference to the emerging countries

Massimo Bergamasco
Scuola Superiore Sant’Anna, Pisa
Italy

August 30th, 2018
08.30-09.30
Virtual Environments and Robotics Technologies for the study of human performance

Peter Lachman
ISQua Executive Officer

August 26th, 2018
15:45-17:30
Translating theory into action (Quality in Healthcare)

Jeffrey Braithwaite
Australian Institute of Health Innovation
Australia

August 26th, 2018
17.30-18.30
Walking the tightrope between creativity and productivity: Culture, resilience and complexity science

Daniel Jenkins
DCA Design International
U.K.

August 28th, 2018
15.00-16.00
Evidence-based design: The role of human factors in inspiring and informing the design process

Dhurjati Majumdar
Defence Research and Development Organisation, Ministry of Defence, Govt. of India
India

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08.30-09.30
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Scuola Superiore Sant’Anna, Pisa
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