



DIPARTIMENTO DI INGEGNERIA
CIVILE, EDILE E AMBIENTALE
DEPARTMENT OF CIVIL, ENVIRONMENTAL
AND ARCHITECTURAL ENGINEERING



DIPARTIMENTO
DI INGEGNERIA
INDUSTRIALE



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1ST INTERNATIONAL SAFETY WORKSHOP: IMPACTS OF NEW TECHNOLOGIES ON WORKERS' SAFETY AND HEALTH

28TH APRIL 2025

 AULA ARCHIVIO ANTICO
PALAZZO BO, PADUA

8:45 REGISTRATION

9:00 WORKSHOP OPENING

9:30 "ADVANCEMENTS IN VR AND AR FOR SAFETY TRAINING"

RUGGIERO LOVREGGIO

FULL PROFESSOR AT MASSEY UNIVERSITY (AUCKLAND, NEW ZEALAND)

10:15 **FIRST SESSION** - CHAIR PROF. CHIARA VIANELLO

11:15 COFFE BREAK

11:45 **SECOND SESSION** - CHAIR PROF. DAVIDE TARDIVO

12:45 **THIRD SESSION** - CHAIR PROF. LIVIO PETRICCIONE

13:30 SOFT LUNCH

14:30 **FOURTH SESSION** - CHAIR PROF. DAVIDE TARDIVO

15:30 **FIFTH SESSION** - CHAIR PROF. CARLO ZANCHETTA

16:30 CLOSING CONSIDERATIONS

Scientific Committee: Prof. Angelo Bertolazzi, Prof. Daniela Boso, Prof. Giorgio Croatto, Dr. Giulia De Cet, Prof. Rossana Paparella, Prof. Carlo Pellegrino, Prof. Chiara Vianello, Prof. Mariano Angelo Zanini

Registrations: <https://forms.gle/mTKjiAgKzVr8McRYg>

1ST INTERNATIONAL SAFETY WORKSHOP: IMPACTS OF NEW TECHNOLOGIES ON WORKERS' SAFETY AND HEALTH

PROGRAMME

ADVANCEMENTS IN VR AND AR FOR SAFETY TRAINING

RUGGIERO LOVREGLIO

FULL PROFESSOR AT MASSEY UNIVERSITY (AUCKLAND, NEW ZEALAND)

FIRST SESSION (10:15-11:15)

CHAIR PROF. CHIARA VIANELLO

SELF-EVOLVING MACHINES AND RISK ASSESSMENT ACCORDING TO EN ISO 12100 AND REGULATION (EU) 2023/1230. AN EXAMPLE OF A FIRST APPLICATION APPROACH

U. FONZAR, L. BARALDO, E. SAVIO

DIGITAL ASSISTANTS AND ROBOTIC INTERFACES: OPPORTUNITIES FOR INTEGRATION AND SOCIAL WELL-BEING

G. FRARE

THE FUTURE OF INDUSTRIAL SAFETY: REMOTE-CONTROLLED ROBOTS IN HIGH-RISK ENVIRONMENTS

A.GEROTTO, A.FELETTO, E. MARANGONI, L. BARALDO

ARTIFICIAL INTELLIGENCE IN MACHINE SAFETY FUNCTIONS

B. KALOUT, D. DAINESE

THE ADOPTION OF A P-CONNECT GATEWAY TOGETHER WITH A SYSTEM OF ELECTROMECHANICAL AND ELECTRONIC SAFETY DEVICES: ADVANCED SAFETY ACCOMPANIED BY NETWORK PROTECTION FROM EXTERNAL THREATS

F. LO GIUDICE, S. MATTERAZZO, L. BARALDO

SECOND SESSION (11:45-12:45)

CHAIR PROF. DAVIDE TARDIVO

RISK ASSESSMENT, HUMAN VARIABILITY AND THE POSSIBLE NEW FRONTIERS OF ARTIFICIAL INTELLIGENCE

R. SOMMA

THE POWER OF DIGITAL PORTALS IN SUPPLIER MANAGEMENT: TRANSFORMING SAFETY COMPLIANCE THROUGH A CASE STUDY

G. PEGORARO, G. MARDEGAN, M. MORO, G. COSTANTINI

RISK ASSESSMENT AND MANAGEMENT AT HEALTH AUTHORITY OF ALTO ADIGE: A SUSTAINABLE APPROACH

P. AUER, F. ORGANAI, M. DE STEFANI

INDUSTRIAL PAVEMENTS SKID RESISTANCE EVALUATIONS FOR WORKERS SAFETY CHECK AND IMPROVEMENT

M. PASETTO, G. GIACOMELLO

THIRD SESSION (12:45-13:30)

CHAIR PROF. LIVIO PETRICCIONE

FIRE SAFETY ENGINEERING AND DIGITAL AI TECHNOLOGIES FOR EVACUATION DESIGN

P. VALERIO, G.CASSELLA, A. BOSCO

ORGANIZATION OF WORKING HOURS AND WORKER SAFETY

P. MUNERETTO, M. STRINNA

THE SILENT INTRODUCTION OF PEOPLE COUNTING SYSTEMS BASED ON VIDEO CAMERA IMAGE ANALYSIS IN FREE ENTERTAINMENT EVENTS IN LARGE-CAPACITY PUBLIC OPEN SPACES: OPPORTUNITIES AND RISKS

V. PUCCIA

THE IMPACT METHODOLOGY FOR THE PROTECTION OF INDUSTRIAL FACILITIES AND TERTIARY SECTOR

R. BARRO, F. ZORZINI, A. DUSSO, M. SANAVIA

FOURTH SESSION (14:30-15:30)

CHAIR PROF. DAVIDE TARDIVO

WEARABLE TECHNOLOGY: INTERSECTIONS BETWEEN HEALTH AND SAFETY AND PRIVACY PROTECTION

D. TARDIVO

NEW DIGITAL RESOURCES AT THE UNIVERSITY OF TRENTO FOR THE ADVANCEMENT OF HEALTH AND SAFETY

M. BRUNELLI, R. CECCATO

REVOLUTIONIZING WORKPLACE SAFETY WITH COMPUTER VISION AI: THE INTENSEYE SOLUTION

D. KARAKAŞ, F. SAYIN, R. BORGHETTO

THE IMPACT OF NEW TECHNOLOGIES IN COLLISION AVOIDANCE: AN APPLIED EXPERIENCE OF SPEED CONTROL AND IMPACT DETECTION IN MATERIAL HANDLING WITH FORKLIFT TRUCKS

A. VICENTIN, P.VISCIANO, E. TOVO

FIFTH SESSION (15:30-16:30)

CHAIR PROF. CARLO ZANCHETTA

DIGITAL TECHNOLOGIES FOR THE MANAGEMENT OF CONSTRUCTION SITES

G. CASSELLA

BUILDING INFORMATION MODELING FOR ADVANCING OCCUPANT'S HEALTH THROUGH GREEN CERTIFICATIONS AND INDOOR ENVIRONMENTAL QUALITY

G. PARISI, S. CASCONI, R. CAPONETTO

OPTIMIZATION OF CONSTRUCTION SITE SAFETY: AN ONTOLOGICAL APPROACH THROUGH THE INTEGRATION OF TIME AND COSTS

J. CASSANDRO, C. MIRARCHI, A. PAVAN

IMPLEMENTATION OF CONSTRUCTION SITE MANAGEMENT SOFTWARE WITH DIGITAL CHECKLISTS FOR QUALITY CONTROL

E. LAURINI, C. MARCHIONNI, M. ROTILIO

SAFETY COORDINATION OF CLASHING ACTIVITIES WITH TOTAL FLOAT ALLOCATION FOR THE COVERED MARKET OF FORLI CASE STUDY

M.A. BRAGADIN, B. BALZANI