Conference Agenda

Session

REV Parallel 12: Special Session: Education & Training for Automation 4.0 (ETAT)

Time: Friday, 03/Mar/2023: 12:30pm - 2:00pm Session Chair: Maria Teresa Restivo, LAETA-INEGI, FAc. Engineering, Univ Porto Location: Dock Six I (with remote presentations)

External resource: Link to Dock Six I zoom room

Presentations

IoT Based Monitoring in Learning Factories for Education in Smart and Sustainable Manufacturing

Matteo De Marchi¹, Benedikt G. Mark¹, Tanel Aruväli¹, Erwin Rauch¹, Dominik T. Matt^{1,2}

¹Industrial Engineering and Automation, Free University of Bozen-Bolzano, Bolzano, Italy; ²Innovation Engineering Center, Fraunhofer Italia Research scarl, Bolzano, Italy

Technical Components Integration using APIs for Predictive Maintenance in the context of Industry 4.0 Digital Transformation

<u>Alberto Cardoso</u>¹, Joel Oliveira¹, Domicio Neto¹, Miguel Fernandes¹, Lorena Petrella¹, Jorge Henriques¹, Paulo Gil¹, Catarina Silva¹, Bernardete Ribeiro¹, Benjamin Hilliger², Yacine Rebahi²

¹University of Coimbra, Department of Informatics Engineering, Centre for Informatics and Systems of the University of Coimbra (CISUC), Coimbra, Portugal; ²Fraunhofer Institute for Open Communication Systems (FOKUS), Berlin, Germany

VR Training Effectiveness Evaluation based on Activity Data Analysis

Kanuengnij Kubola, Benchaporn Jantarakongkul, Prawit Boonmee, Nattamon Srithammee, Chalermpan Fongsamut, <u>Prajaks</u> <u>Jitngernmadan</u>

Burapha University, Thailand

The power of Digital Twins, ERP Simulator based in Vir-tual and Augmented Reality, to increase the learning for Industrial Engineers Students in the educational model TEC21.

Carlos Alberto Gonzalez Almaguer, Beatriz Murrieta Cortés, Verónica Saavedra Gastélum, Natalia Frías Reid, Alejandro Acuña López, Claudia Zubieta Ramírez

Tecnologico de Monterrey, Mexico

Approaches for Teaching Robotics

Paulo Abreu¹, Maria Teresa Restivo², Diana Urbano¹, Fátima Chousal¹, Dilki Arachchiger³

¹LAETA-INEGI, Faculty of Engineering, University of Porto, Portugal; ²Faculty of Engineering, University of Porto, Portugal; ³LAETA-INEGI, University of Porto, A3ES, Portugal

Lactate Optical Detection Setup Used For Preventive Care

Petru Epure¹, Mihai Mitrea¹, Ana-Maria Gurban²

¹Chimgrup SRL, Romania; ²ICECHIM Bucuresti, Romania