

THURSDAY 26th, NOVEMBER 2015

10:00 AM

Welcoming and Registration of Participants

COFFEE BREAK

10:30 AM

INTRODUCTION AND WELCOMING

Dr. Jorge POSADA

Deputy Director of VICOMTECH IK4

[The Chairs of VIRTUAL CONCEPT International Workshop on INDUSTRIE 4.0](#)

Dr. Carlos TORO - Dr. Iñigo Barandiaran - VICOMTECH IK4

11:00 AM

SESSION 1

VIRTUAL APPROACHES FOR INDUSTRIE 4.0

1:15 PM

LUNCH

2:30 PM

ROUND TABLE

INDUSTRIE 4.0: the Plants of Future or the Innovation Mill?

MODERATORS

Dr. Jorge POSADA, Vicomtech IK4

Dr.

3:15 PM

COFFEE BREAK

3:45 PM

SESSION 2

PRODUCTION AND MANUFACTURING IN INDUSTRIE 4.0

6:00 PM

FRIDAY 27th, NOVEMBER 2015

9:00 AM

SESSION 3

AIDED ENGINEERING AND SUPPORT SYSTEM

11:15 AM

COFFEE BREAK

11:45 AM

VICOMTECH IK4 FORUM

Recent Trends and Projects on INDUSTRIE 4.0 of VICOMTECH IK4

And Futur Projects or Collaborations

1:00 PM

LUNCH

2:15 PM

SESSION 4

INNOVATIVE DESIGN APPROACH IN INDUSTRIE 4.0

3:15 PM

SESSION 5

ENERGY SAVING IN INDUSTRIE 4.0

4:15 PM

COFFEE BREAK

4:45 PM

SESSION 6

KNOWLEDGE MANAGEMENT AND INNOVATION IN INDUSTRIE 4,0

6:00 PM

CLOSING SESSION

Thematic Session 1

Title	VIRTUAL APPROACHES FOR INDUSTRIE 4.0			
Chair	Pr. X. FISCHER			
Affiliation	ESTIA, France			
Date	Thursday 26th, November 2015	Hour and Location:	11:00 AM	Room 1
Speaker	Authors	Title		Article Number
Communication 1	Mejia Daniel , Ruiz Oscar E. , Cadavid Carlos	Spectral-based Vertex Re-labeling for Mesh Segmentation		VC2015_0003
Communication 2	Ruiz Oscar E., Cadavid Esteban, Osorno Maria C., Uribe David, Steeb Holger	Geometry Simplification for Modeling of Porous Materials		VC2015_0005
Communication 3	Arbelaez-Estrada Juan C., Vigano Roberto, Osorio- Gomez Gilberto	Introductory Analysis of Augmented Reality in Product Assembly		VC2015_0012
Communication 4	Segura Álvaro, Galdos Andoni, Barandiaran Javier, Moreno Aitor, Carrasco Eduardo, Barandiaran Iñigo	Improved Virtual Reality perception with calibrated stereo and variable focus for industrial use		VC2015_0013
Communication 5	Sanchez Jairo R, Segura Alvaro, Barandiaran Iñigo, Muñoz Joseba, Larrea Jose A.	Dimensional Inspection of Manufactured Parts with Web-Based 3D Visualization		VC2015_0022

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Thematic Session 2

Title	PRODUCTION AND MANUFACTURING IN INDUSTRIE 4.0			
Chair	Dr. Jorge POSADA			
Affiliation	VICOMTECH IK4, Spain			
Date	Thursday 26th, November 2015	Hour and Location:	3:45 PM	Room 1
Speaker	Authors	Title	Article Number	
Communication 1	Moreno Aitor, Velez Gorka, Barandiaran Iñigo, Ruíz de Infante Álvaro, Chopitea Raúl	Digital Twins in the Industry 4.0 vision: Virtualisation process of a sheet metal punching machine	VC2015_0007	
Communication 2	Calvo Isidro, López Fernando, Zulueta Ekaitz, González-Nalda Pablo	Integration of virtual worlds with industrial automation processes	VC2014_0016	
Communication 3	Legarretaetxebarria Aritz, Quartulli Marco, Olaizola I., Serrano Mikel	Optimal scheduling of manufacturing processes across multiple production lines by polynomial regression and bagged bounded binary knapsack	VC2015_0018	
Communication 4	Ochoa Ainhoa, Diaz Javier, Kamp Bart	Insights for industry 4.0 implementation in machine tool servitization	VC2015_0021	
Communication 5	González-Nalda Pablo, Etxeberria-Agiriano Ismael, Calvo Isidro, Otero Mari Carmen	Improving Design, Operation and Security in CPS using ROS middleware and Lightweight Virtualization	VC2015_0023	

Thematic Session 3

Title	AIDED ENGINEERING AND SUPPORT SYSTEM			
Chair	Pr. Christophe MERLO			
Affiliation	ESTIA, France			
Date	Friday 27th, November 2015	Hour and Location:	9:00 AM	Room 1
Speaker	Authors	Title		Article Number
Communication 1	Arroyave-Tobón Santiago, Delos Vincent, Teissandier Denis	PolitoCAT: open source software for tolerance analysis		VC2015_0006
Communication 2	Valencia Albeiro, Díaz Adalberto Gabriel, Duque Amaya Andrés Felipe	Evaluation of two strategies NMPC into HIL applied to the operation of an internal combustion engine		VC2014_0025
Communication 3	Gouyou Doriane, Ledoux Yann, Teissandier Denis, Delos Vincent	Tolerance analysis by Polytopes: taking into account deformation in parallel assemblies		VC2014_0011
Communication 4	Valencia Albeiro, Gabriel Díaz Adalberto, Andrés Acosta Diego	NMPC controller applied to the operation of an internal combustion engine: Formulation and solution of the optimization problem in real time		VC2014_0004
Communication 5	Mejia Daniel, Moreno Aitor, Barandiaran Iñigo, Ruíz Óscar	Comparison of FEM software for 2D heat transfer analysis in sheet metal laser cutting		VC2014_0008

Thematic Session 4

Title	INNOVATIVE DESIGN APPROACH IN INDUSTRIE 4.0			
Chair	Pr. Yann LEDOUX			
Affiliation	Université Bordeaux, France			
Date	Friday 27th, November 2015	Hour and Location:	2:15 PM	Room 1
Speaker	Authors	Title		Article Number
Communication 1	Suarez-Escobar Marian, Gallego-Sanchez Juan Andres, Rendon-Velez Elizabeth	Conceptual design of mechanisms for linkage-driven underactuated hand exoskeletons: a systematic approach including anatomical and mechanical considerations		VC2015_0019
Communication 2	Duarte Ricardo, Mesnard Michel, Nadeau Jean- Pierre	An innovative design approach for the development of external medical devices		VC2015_0014

Thematic Session 5

Title	ENERGY SAVING IN INDUSTRIE 4.0			
Chair	Dr. Iñigo BARANDIARAN			
Affiliation	VICOMTECH IK4, Spain			
Date	Friday 27th, November 2015	Hour and Location:	3:15 PM	Room 2
Speaker	Authors	Title		Article Number
Communication 1	Oses Noelia, Legarretaetxebarria Aritz, Quartulli Marco, Garcia Igor, Serrano Mikel	Measuring and verification of energy savings by statistical learning in manufacturing environments		VC2015_0017
Communication 2	Remaci A., Curea Octavian, Merlo Christophe, Hacala Amélie, Guerré V.	Renewable Electricity conversion and storage: Energy management of Power to Gas plant		VC2015_0015

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Thematic Session 6

Title	KNOWLEDGE MANAGEMENT AND INNOVATION IN INDUSTRIE 4,0			
Chair	Dr. Carlos TORO			
Affiliation	VICOMTECH IK4, Spain			
Date	Wednesday 26th, March 2014	Hour and Location:	4:45 PM	Room 1
Speaker	Authors	Title		Article Number
Communication 1	Toro Carlos, Velez Gorka, Shafiq Inram	Industrial Decision Support Systems (IDSS) - Knowledge and experience as a service in Industrie 4.0		VC2015_0020
Communication 2	Toro Carlos, Barandiaran Iñigo, Martínez Cristina, Larrucea Xabier, Ayerbe Ana, Del Ser Javier, Calvo Isidro, Etxeberria-Agiriano Ismael, González-Nalda Pablo, Zulueta Ekaitz, Amundarain Irizar Aiert, Berian Andoni, Solar Hector, Illarramendi Miren, Etxeberria Leire	CPS for Product Service Systems - Architecture and preliminary application scenarios		VC2015_0024
Communication 3	Merlo Christophe, Cianni Anthony, Diaz Pierre	Knowledge-centered and collaborative company: a case study		VC2015_0009

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