



5th WORKSHOP ON Advanced numerical analysis techniques



Organized by:
Máster en Ingeniería Mecánica y Materiales
Programa de Doctorado en Ingeniería y Producción Industrial

Valencia 16-18 July 2014
Departamento de Ingeniería Mecánica y de Materiales. UPV
Room: Aula Audiovisuales. 3rd floor Building 5E
Universitat Politècnica de València

	Wednesday 16/07/2014	Thursday 17/07/2014	Friday 18/07/2014
9:30	<i>Kinetic theory-based micro to macro approaches</i> Francisco Chinesta	<i>The Proper Generalized Decomposition for industrial applications: Data Assimilation and Topology Optimization</i> Enrique Nadal	<i>High-order methods for the next generation of computational engineering software</i> Rubén Sevilla
10:00			
10:30			
11:00	B R E A K		
11:30	<i>Virtual Testing of laminated composite structures: state-of-the-art and challenges</i> Pierre Ladeveze	<i>Fatigue crack propagation simulation under rolling contact fatigue</i> Anthony Gravouil	<i>Recovery-based error indicators for the Proper Generalized Decomposition</i> Enrique Nadal
12:00			<i>"Wave" Computational approaches and applications to Acoustics, Vibrations and Transient Dynamics</i> Pierre Ladeveze
12:30			
13:00	L U N C H		
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15:30	<i>NURBS-enhanced finite element method (NEFEM)</i> Rubén Sevilla	<i>Recent advances on generation of 3D FE models from medical images</i> Luca Giovannelli	
16:00		<i>A stabilized perturbed Lagrangian formulation for contact problems</i> Manuel Tur	
16:30	<i>A 3D Cartesian Grid Finite Element Method considering exact geometries</i> Onofre Marco		
17:00	<i>Model reduction techniques for frictional contact - efficient a posteriori and a priori strategies</i> Anthony Gravouil	<i>Recent advances in the use of PGD-based model order reduction techniques</i> Francisco Chinesta	
17:30			
18:00			

