

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
Meccanica generale					
GE-01	lunedì 14 16.30-18.30 aula ?	16.30-16.50	E. DiGialleonardo, A. Genoese, S. Melz	Effect of trainset composition on the running safety of heavy freight train	
		16.50-17.10	F. Cheli, R. Manigrasso, F.L. Mapelli, D. Tarsitano	Object oriented model for Plug-in Hybrid Electrical Vehicle	
		17.10-17.30	V. Mallardo, C. Alessandri, F.M.H. Aliabadi	An adaptive fast multipole boundary element method for the Helmholtz equation	
		17.30-17.50	A. Montanaro	Some General Theorems of Incremental Thermoelastostaticity	
		17.50-18.10	G. Zavarise, L. De Lorenzis	The contact patch test for linear contact pressure distribution	
		18.10-18.30	M. Belloli, D. Sabato, T. Argentinì	Sperimentazione di smorzatori passivi a liquido (TLCD) per macchine vibranti ad Iglc	
GE-02	martedì 15 10.00-12.00 aula ?	10.00-10.20	A. Luongo	Parameter-dependent normal forms for bifurcation equations	
		10.20-10.40	S. Magheri, E. Meli, S. Papini, M. Rinchi	Multibody modelling of railway vehicles: an innovative elastic wheel - rail contact model	
		10.40-11.00	A. Contento, A. Di Egidio, A. Tatone	Impact, bouncing and motility	
		11.00-11.20	G. Frosali, F. Ricci	A mathematical model for a bicycle with trail	
		11.20-11.40	F. Braghin, F. Cheli, S. Melzi, E. Sabbioni, M. Sbroci	In-tires embedded sensors: application to existing control system	
		11.40-12.00	G. Busoni, L. Prati	Some remarks on a system modeling the cosmic rays balance	
Meccanica dei fluidi					
FL-01 (Fluidi complessi e trasmissione del calore)	lunedì 14 14.10-16.10 aula ?	14.10-14.30	A. Pozzi, R. Tognaccini	Conjugated heat transfer in unsteady channel flows	
		14.30-14.50	G. Coppola, O. Semeraro, L. de Luca	Viscous corrections for the stability of a two-fluid rotating column	
		14.50-15.10	F. Domenichini, G. Pedrizzetti	Flow changes due to pathologies of the left ventricle	
		15.10-15.30	S. Barontini, R. Ranzi	Steady infiltration in gradually layered soils: onset of a perched water and profiles of soil-water properties	
		15.30-15.50	I. Daprà, G. Scarpi	Unsteady Couette flow of viscoelastic fluid	
FL-02 (Onde di superficie libera)	martedì 15 10.00-12.00 aula ?	10.00-10.20	S. Corvaro, C. Lorenzoni, E. Seta, A. Mancinelli, M. Brocchini	Interazione di onde con fondale poroso	
		10.20-10.40	P. Filianoti, V. Fiamma	A numerical investigation of diffraction coefficients of forces exerted by random wind-generated wave on truncated cylinders	
		10.40-11.00	C. Lugni, M. Brocchini, M. Miozzi	Evolution of the air-cavity during a wave impact	
		11.00-11.20	P. Filianoti, V. Fiamma	Extreme sea wave forces on detached breakwaters	
		11.20-11.40	S. Corvaro, C. Lorenzoni, M. Postacchini, E. Seta, L. Soldini, M. Brocchini, A. Mancinelli	Confronto sperimentale sulla dissipazione delle onde di mare su fondali a diversa configurazione	
FL-03 (Tecniche di simulazione numerica)	mercoledì 16 10.00-12.00 aula ?	10.00-10.20	G. De Stefano	Towards fully-adaptive wavelet transform-based numerical simulation of turbulence	
		10.20-10.40	A. Di Marco, R. Camussi, T. Pagliaroli	Hydrogen Combustion in a Double Cavity Trapped Vortex Combustor	
		10.40-11.00	F.M. Denaro, A. Aprovitola, G. Riccardi	An analysis of the errors in Finite Volume numerical simulation	
		11.00-11.20	M. Bernardini, S. Pirozzoli	Zonal detached eddy simulation of compressible base flow	
FL-04 (Vorticità e aerodinamica)	mercoledì 16 16.10-17.10 aula ?	16.10-16.30	G.V. Iungo, G. Buresti	Experimental investigation on the influence of wind direction on the aerodynamic loads acting on low aspect ratio triangular prisms	
		16.30-16.50	C.M. Marongiu, R. Tognaccini	Aerodynamic force analysis in high Reynolds number flows by Lamb vector integration	
		16.50-17.10	G. Coppola, F. de Rosa, L. de Luca	Multimodal analysis for the stability of vortices with axial flow	
FL-05 (Turbolenza)	giovedì 17 9.00-11.00 aula ?	9.00-9.20	R. Camussi, M.C. Jacob, J. Grilliat, G. Caputi Gennaro	Flow structures and pressure fluctuations in a tip-leakage flow	
		9.20-9.40	P. Gualtieri, F. Picano, G. Sardina, C.M. Casciola	The effects of back-reaction on particle clustering and turbulence modulation in shear flow	
		9.40-10.00	L. Chiapponi, S. Longo	Strong turbulence and free surface interaction in a grid-stirred tank	
		10.00-10.20	E. De Angelis, C.M. Casciola	DNS of entrainment through turbulent/non-turbulent interface in dilute polymer solution	
		10.20-10.40	C. de Nicola, G. Graziosi, R. Donelli	Prediction of transition on wings in a RANS approach	
FL-06 (Metodi numerici non-convenzionali)	giovedì 17 12.00-14.00 aula ?	12.00-12.20	S. Rosa Taddei, F. Larocca, F. Bertini	A treatment of the leading edge discontinuity for time-marching throughflow analyses	
		12.20-12.40	L. Galantucci, M. Quadrio, P. Luchini	Superfluid vortices in a wall-bounded flow	
		12.40-13.00	M. Cremonesi, A. Frangi, U. Perego	Fluid-structure interaction solved by a Lagrangian finite element method	
		13.00-13.20	S. Marrone, M. Antuono, A. Colagrossi, G. Graziani	Enhanced Boundary Treatment in 2D Smoothing Particle Hydrodynamics Model	
		13.20-13.40	A. Crivellini, L. Pelagalli, F. Bassi	An Implicit Matrix-Free Discontinuous Galerkin Solver for Turbulent Flow	
		13.40-14.00	M. Chinappi, E. De Angelis	Effect of confinement on statistical properties of a DNA chain in microchannels	

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
Meccanica delle macchine					
MA-01 (Vibrazioni)	lunedì 14 10.55-12.55 aula ?	10.55-11.15		G. Incerti	Sulla possibilità di ridurre le vibrazioni residue di dispositivi meccanici azionati da trasmissioni a cinghi
		11.15-11.35		F. Sorge, M. Cammalleri	Hysteretic whirl stabilization in rotor-shaft-bearing systems on dry friction suspensions
		11.35-11.55		A. Cammarata, D. Condorelli, R. Sinatra	A Simplified Finite Element-based Algorithm to Study Vibrations of Parallel Kinematic Machine
		11.55-12.15		F. Pellicano	Dynamics of Circular Cylindrical Shells under Seismic Load
		12.15-12.35		L. Mangialardi, L. Soria	A mixed analytical-multibody-BEM approach for predicting the sound power level of a hydraulic impact hammer
		12.35-12.55		R. Caracciolo, D. Richiedei, A. Trevisani, G. Zanardo	Structural modification of vibrating systems: an approach based on a constrained inverse eigenvalue problem
MA-02 (Meccanismi)	lunedì 14 14.10-16.10 aula ?	14.10-14.30		R. Di Gregorio	Kinestostatic Analysis of Sphere-Roller Contacts: a Review
		14.30-14.50		E. Giannotti, C. Galletti	Synthesis of single-loop kinematotropic mechanism
		14.50-15.10		G. Baronio, M. Tiboni	An original solution for a multiple transmission system based on cranks mechanism
		15.10-15.30		G. Figliolini, P. Rea, M. Conte	Design Flow-Chart of Slider-Crank Mechanisms and Applicator
		15.30-15.50		C. Galletti, E. Giannotti	Assur's-groups-based simulation for teaching kinematics of planar linkage
MA-03 (Veicoli)	lunedì 14 16.30-18.30 aula ?	16.30-16.50		M.-C. Palpacelli, L. Carbonari	Analysis of handling and vertical dynamics of a 4 steering wheels electric vehicle powered by 2 in-wheel
		16.50-17.10		F. Bottiglione, G. Mantriota	Tank vehicles: testing and modeling
		17.10-17.30		V. Cossalter, R. Lot, M. Massaro, R. Sartori	Development and Testing of Assistant Rider Systems with the UNIPD Motorcycle Riding Simulator
		17.30-17.50		N. D'Alfio, E. Galvagno, A. Morgando, A. Vigliani	Steer-by-Wire system design and test through Hardware in the Loop simulation
		17.50-18.10		A. Rindi, L. Pugi, M. Ignesti, J. Auciello	Simulation of freight trains dynamics during braking manoeuvres on curved track
MA-04 (Biomeccanica)	martedì 15 10.00-12.00 aula ?	10.00-10.20		A. Borboni, D. Fausti, R. Faglia	Progetto, realizzazione e prove preliminari su un sistema automatico per la riabilitazione del gomito
		10.20-10.40		M. Ometto, G. Legnani	Instrumentation of a Handbike for biomechanical measurement
		10.40-11.00		L. Mattei, B. Piccigallo, K. Stadler, E. Ciulli, F. Di Puccio	EHL modeling of hip implants based on a ball-on-plane configuration
		11.00-11.20		R. Caminati, N. Sancisi, V. Parenti-Castelli	Optimal Four-Bar Linkage for the Stability and the Natural Motion of the Human Knee
		11.20-11.40		M. Fontana, M. Bergamasco, F. Salsedo	Mechanical design and Experimental Characterization of a novel Hand Exoskeleton
		11.40-12.00		M. Cavacece, E. Pennestrì, P.P. Valentini	Comparison of two different seat-spine transfer functions for vibrational comfort monitoring of car passengers
MA-05a (Azionamenti e attuatori)	martedì 15 13.50-15.50 aula ?	13.50-14.10		P. Boscaroli, A. Gasparetto, M. Giovagnoni, A. Lanzutti, R. Vidoni, V. Zanutto	Innovative Control Techniques for Mechatronic Systems
		14.10-14.30		P. Toni, L. Pugi, M. Malvezzi, F. Bartolini	Model of Parallel-Connected Multiple Induction Motors for HIL simulation of railway anti-skid-anti-slip systems
		14.30-14.50		M. Pasquino, D. Cancellara	Progettazione di due attuatori meccanici per la simulazione degli effetti sismici su strutture esistenti e di nuova costruzione
		14.50-15.10		H. Giberti, S. Cinquemani, G. Legnani	Effetti delle caratteristiche meccaniche della trasmissione sulla scelta del motoriduttore
		15.10-15.30		R. Bussola, A. Menegolo, M. Tiboni, A. delli Carri	Pianificazione ed ottimizzazione della legge di moto di attuatori elettrici mediante algoritmi genetici
		15.30-15.50		P. Righettini, R. Strada, V. Lorenzi	Progetto di un banco prova per l'analisi del comportamento dinamico di servomotori elettrici
MA-05b (Azionamenti e attuatori)	martedì 15 16.10-17.10 aula ?	16.10-16.30		P. Righettini, B. Zappa, R. Strada, M. Forlani	Impiego di attuatori piezoelettrici in trasmissioni a cinghia per lo sviluppo di sistemi di posizionamento ad alta precisione
		16.30-16.50		F. Braghin, S. Cinquemani, F. Resta, D. Sabato	Dynamic Characterization of a Magnetostrictive Actuator
		16.50-17.10		L. Bruzzone, G. Bozzini	Fractional order position control of SCARA robots
MA-06a (Componenti)	mercoledì 16 10.00-12.00 aula ?	10.00-10.20		M. Borasso, C. Braccesi, F. Cianetti, M. C. Valigi	A mechanical face seal model and numerical simulation of stick-slip
		10.20-10.40		A. Bracci, M. Gabiccini, M. Guiggiani	Robust Optimization of Hypoid Gears with Misalignments
		10.40-11.00		M. Silvestri, E. Prati, A. Tasora	Experimental Study on High Pressure Shaft Seal Applications
		11.00-11.20		F. Bottiglione, G. Carbone, L. Mangialardi, G. Mantriota	Mechanism of Leakage in Flat Seals
		11.20-11.40		G. Figliolini, H. Stachel, J. Angeles	On the Synthesis of Spatial Cycloidal Gears
		11.40-12.00		M. Cocconcelli, R. Rubini	Correlation between the stator current signal and the kinematic model of the rolling bearing for the diagnostics

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
MA-06b (Componenti)	mercoledì 16 13.50-15.50 aula ?	13.50-14.10		B. Allotta, L. Pugi, F. Bartolini	Design and Simulation of Magneto-Rheological Dampers for railway application
		14.10-14.30		G. Carbone, L. De Novellis, L. Mangialardi	An enhanced CMM model to predict CVT performances: theory vs. experimen
		14.30-14.50		E. Ciulli, B. Piccigallo, D. Vela	Experimental wear study of engine cam-followers
		14.50-15.10		M. Scaraggi, G. Carbone, L. Mangialardi	EHL-Squeeze in Highly Loaded Contacts: The Influence of Fluid Rheology on Pin-Pulley Interaction in
		15.10-15.30		H. Giberti, A. Collina, A. Zuin, M. Bocciolone	CVT Transmission Sulla determinazione del rendimento delle trasmissioni meccaniche a vite a ricircolo di sfer
MA-07 (Dinamica)	mercoledì 16 16.10-17.10 aula ?	16.10-16.30		A. Lucifredi, P. Silvestri, L. Polotti, F. Strobino	Realizzazione di un modello di convogliatore a nastro mediante i programmi di simulazione LMS Virtua
		16.30-16.50		S. Chatterton, A. Vania, P. Pennacchi	Lab e AMESim e cosimulazione per il controllo del gruppo motore dell'impianto
		16.50-17.10		A. Lucifredi, P. Silvestri, P. Sgroi, D. Noceti	Rotor Balancing by means of High Breakdown Point and Bounded-Influence Robust Estimator Analisi dinamica preliminare, teorica e sperimentale, del carrello principale di un velivolo
MA-08a (Robotica)	giovedì 17 9.00-11.00 aula ?	9.00-9.20		M. Gabiccini, A. Bracci, D. De Carli, M. Fredianelli, A. Bicchi	Explicit Lagrangian Formulation of the Dynamic Regressors for Serial Manipulator
		9.20-9.40		G. Carbone, M. Ceccarelli	Problematiche e soluzioni per lo sviluppo di una mano robotica di basso costo
		9.40-10.00		A. Vertuan, S. Ruggeri, G. Legnani	Kinetostatic and dynamic properties of "Cheope" a parallel-serial manipulator
		10.00-10.20		H. Giberti, S. Chatterton, S. Cinquemani	Ottimizzazione cinematica di un manipolatore parallelo 5R 2-GDL azionato da cilindri pneumatici
		10.20-10.40		G. Bozzini, L. Bruzzone, R. Oderio, G. Quaglia, R. Razzoli	Design of the small mobile robot Epi.q-2
MA-08b (Robotica)	giovedì 17 12.00-14.00 aula ?	10.40-11.00		G. Boschetti, R. Caracciolo	Workspace computation in parallel manipulators with three translational degrees of freedom
		12.00-12.20		M. Callegari, G. Palmieri, M.-C. Palpacelli	Cartesian space visual control of a translating parallel manipulator
		12.20-12.40		G. Legnani, P. Magnani, M. Tiboni	An innovative approach for the Calibration of Industrial Manipulators based on Neural Network
		12.40-13.00		M. Foglia, A. Gentile, G. Reina	3D-Odometry for Rough-Terrain Mobile Robots
		13.00-13.20		M. Malvezzi, F. Bartolini, B. Allotta, P. Toni	Dynamic Simulation of a Six-Legged Mobile Robot
		13.20-13.40		M. Gabiccini, A. Bicchi, A. Lo Biondo, G. Mancuso	Trajectory Tracking and Force-Closure Control of a Multifingered Hand with Rolling Contact
		13.40-14.00		S. Ruggeri, A. Vertuan, G. Legnani, A. Visioli	Kinetostatic calibration of a SCARA robot
Meccanica dei solidi					
SO-01 (Interfacce)	venerdì 14 10.55-12.55 aula ?	10.55-11.15		A. Barbieri, A. Cecchi	Finite thickness interface model for un-strengthened and strengthened bed joint of masonry walls in plane
		11.15-11.35		G.P. Lignola, A. Collina, A. Prota, G. Manfredi	Analysis of tile-substrate behavior subjected to shrinkage
		11.35-11.55		A. Spada, G. Filecchia Scimemi, G. Giambanac	The interphase model applied to simulate chemically bonded anchor
		11.55-12.15		U. Perego, A. Giampieri	An interface element to model the mechanical response of crease lines for carton-based packaging
		12.15-12.35		A.-L. Bessoud, F. Krasucki, M. Serpilli	Shell-like inclusions with high rigidity: an asymptotic approach
SO-02 (Problemi accoppiati e multifase)	venerdì 14 14.10-16.10 aula ?	12.35-12.55		M. Paggi, G. Zavarise	Contact mechanics of functionally graded rough surfaces
		14.10-14.30		G. Xotta, V. Salomoni, C. Majorana, G. Mazzucco	Meso-scale modelling of concrete as a fully coupled porous media
		14.30-14.50		F. Pesavento, B.A. Schrefler, D. Gawin	A multiscale/multiphysics model for concrete
		14.50-15.10		L. La Ragione, V. Magnanimo	An irreversible behavior for a dense granular media
		15.10-15.30		C. Callari	A computationally oriented approach to thermodynamics of multiphase porous media
SO-03a (Plasticità e danno)	sabato 15 10.00-12.00 aula ?	15.30-15.50		R. Serpieri, L. Rosati	A linearized biphasic poroelastic model and its calibration with experimental measure
		15.50-16.10		L. Sanavia, L. Luisson, R.N. Nanhornguè, M. Passarotto, R. Santagiuliana, B.A. Schrefler	Multiphysics modelling of environmental engineering problems by means of porous media mechanic
		10.00-10.20		A. Zirpoli, R. Fedele, N. Valoroso	Mode-I parameter identification for an interface model describing damage in adhesive joint
		10.20-10.40		L. Galuppi, L. Deseri	Sintering during constrained forging and isostatic pressing: the influence of the interstitial stress
		10.40-11.00		S. Lenzi, O. Piattoni, F. Clementi, T. Sadowski	A mechanical characterization of unfired dry earth: ultimate strength, damage and fracture parameter
SO-03b (Plasticità e danno)	sabato 15 13.50-15.50 aula ?	11.00-11.20		L. Contraffatto, M. Cuomo	A variational formulation in damaging plasticity for modelling Strong Discontinuities
		11.20-11.40		F. De Angelis, R.L. Taylor	Nonlinear kinematic hardening modeling in plasticity
		13.50-14.10		D. De Tommasi, S. Marzano, G. Puglisi, G. Zurl	Damage and healing effects in inflated rubber balloons
		14.10-14.30		G. Garcea, L. Leonetti	On the effectiveness of numerical algorithms for the evaluation of the shakedown and limit load
		14.30-14.50		A. Cavicchi, R. Massabò	Dynamic interaction of multiple delaminations and core damage in composite sandwich beam
		14.50-15.10		A. Piccolozzi, D. Bigoni	Non-smooth yield criteria
		15.10-15.30		B. Pomaro, V.A. Salomoni, F. Gramegna, G. Prete, C.E. Majorana	Radiation damage in the target area shielding of a facility for Selective Production of Exotic Species (SPES)
		15.30-15.50		M. Cuomo, M. Fagone	A numerical scheme for finite deformation anisotropic elastoplasticity with evolving material direction

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
SO-04 (Solido di de St Venant)	martedì 15 16.10-17.10 aula ?	16.10-16.30		D. Veber, A. Taliercio	Torsion of elastic anisotropic micropolar cylindrical bar:
		16.30-16.50		F. Marotti de Sciarra, R. Barretta, A. Barretta	Nonlocal shear stresses in Saint Venant beams
		16.50-17.10		G. Barone, A. Pirrotta, R. Santoro	Complex analysis for the solution of torsion problems: a comparison among three method
SO-03c (Plasticità e danno)	mercoledì 16 10.00-12.00 aula ?	10.00-10.20		A. Grimaldi, R. Luciano, Z. Rinaldi	Tensile strength of concrete reinforced by a random distribution of fibre
		10.20-10.40		M. Merlin, R. Rizzoni	Modeling the constrained recovery in shape memory wire
		10.40-11.00		E. Bovet, B. Chiaia, L. Preziosi	Numerical analysis of snow avalanche mechanics and interaction with structure
		11.00-11.20		G. Perrella, L. Esposito, A. Cutolo, M. Fraldi	A Proposal of Unified Elastic Moduli-Matrix Volume Fraction Law for Porous RVE:
		11.20-11.40		C. Comi, U. Perego	A two-phase model for chemo-damage induced anisotropy in concrete
SO-05 (Modelli per gomma e mat. polimerici)	mercoledì 16 16.10-17.10 aula ?	16.10-16.30		S. Briccoli Bati, M. Fagone, G. Ranocchiani	The elastic behavior of a rubber-like material for composite glass
		16.30-16.50		J. Ciambella, A. Paolone, S. Vidoli	A non-linear viscoelastic model for filled-rubber: analytical formulation, experimental modeling and
		16.50-17.10		G. Palmieri, G. Chiappini, M. Sasso, D. Amodio	Pseudo-elastic characterization of elastomeric materials by cyclic multi-axial loading test
SO-06a (Elasticità)	giovedì 17 9.00-11.00 aula ?	9.00-9.20		M. Paggi, Al. Carpinteri, R. Orta	A unified mathematical formulation for the asymptotic analysis of singular elastic and electromagnetic field
		9.20-9.40		M. Di Paola, A. Pirrotta, M. Zingales	Waves propagation in a fractional viscoelastic continuum
		9.40-10.00		A. Russo, A. Tartaglione	On the Contact Problem of Linear Elasticity
		10.00-10.20		M. Brun, S. Guenneau, A.B. Movchan	Invisibility to in-plane elastic waves
		10.20-10.40		Al. Carpinteri, P. Cornetti, A. Sapore, M. Di Paola, M. Zingales	An explicit mechanical interpretation of Eringen non-local elasticity by means of fractional calculus
SO-06b (Elasticità)	giovedì 17 12.00-14.00 aula ?	10.40-11.00		F. Greco, P. Lonetti, P. Nevone Blasi	Macroscopic analysis of heterogeneous solids including the effects of finite changes in constitutive and geometric microstructural properties
		12.00-12.20		G. Caramia, D. De Tommasi, S. Marzano, G. Saccomandi	Small amplitude waves in history-type viscoelastic bodies
		12.20-12.40		A. Russo, A. Tartaglione	Some properties of the solutions of the equations of linear elastodynamics in unbounded domain
		12.40-13.00		R. Sbrurati	An analytic solution method for a biharmonic elastic problem
		13.00-13.20		D. Capecchi, G. Ruta, P. Trovalusci	Poincaré's energetic approach to continuum mechanics
SO-07 (Frattura)	giovedì 17 12.00-14.00 aula ?	13.20-13.40		C.E. Majorana, G.A. Khoury, V.A. Salomoni	Effects of polypropylene fibres in concrete under fire condition:
		13.40-14.00		M. Paciaroni	Comportamento a grandi deformazioni di alcuni materiali iperelastici
		12.00-12.20		S. Bennati, P.S. Valvo	An elastic interface model for mixed-mode fracture of adhesive joint:
		12.20-12.40		B. Chiaia, B. Frigo	Multiscale Fracture Behaviour of Ice
		12.40-13.00		A. Salvadori, A. Carini	Ceradini's approach in fracture mechanics
SO-08 (Omogeneizzazione)	giovedì 17 12.00-14.00 aula ?	13.00-13.20		F. Barpi, S. Valente	Fluid driven cohesive crack propagation in quasi-brittle material
		13.20-13.40		D. Ferretti, M. Rossi, G. Royer-Carfagni, M. Silvestri	An ESPI investigation of the crack-tip opening profile in brittle glass:
		12.00-12.20		E. Artioli, P. Bisegna, F. Caselli, F. Maceri	Effective longitudinal shear moduli of random composites comprising functionally-graded fibre
		12.20-12.40		D. Bruno, R. Carpino, F. Greco, G. Sgambitterra	Efficacy of homogenization techniques for locally periodic composite
		12.40-13.00		M.C. Pernice, L. Nunziante, M. Fraldi	A direct evaluation of the Fabric Tensor in anisotropic porous media:
		13.00-13.20		A. Caporale, R. Luciano	Serie di Fourier in sistemi di coordinate per l'omogeneizzazione dei compositi viscoelastici
		13.20-13.40		D.P. Boso, M. Lefik	Numerical modelling of non linear composites using artificial neural network
Meccanica delle strutture					
ST-01 (Membrane, piastre)	lunedì 14 10.55-12.55 aula ?	10.55-11.15		G. Castellazzi, P. Krysl	Assumed Strain Finite Elements for Reissner-Mindlin Plate:
		11.15-11.35		A. Capsoni, P. Ladevèze	On boundary conditions for Ladevèze's plate theory
		11.35-11.55		S. Vidoli, C. Maurini, A. Fernandes	Multiparametric actuation of bistable plates
		11.55-12.15		E. Puntel	Lumped Strain Method for thin plates: a numerical appraisal
		12.15-12.35		R. Barsotti, S.S. Ligaro	Membrane elastiche pressurizzate
ST-02a (Elementi finiti, elementi di contorno)	lunedì 14 10.55-12.55 aula ?	12.35-12.55		M. Cuomo, L. Greco	Influence of wrinkling in the structural response of light membrane:
		10.55-11.15		V. Mallardo, F.M.H. Aliabadi	Noise control by BEM in large scale engineering problem:
		11.15-11.35		A. Marinetti, G. Oliveto	On the Evaluation of the Shear Correction Factors: a Boundary Element Approach
		11.35-11.55		A. Sofi, A.A. Fiasano, P. Fuschi	Nonhomogeneous nonlocal elasticity: a finite element approach
		11.55-12.15		S. de Miranda, A. Madeo, G. Garcea, Fr. Ubertini	Implicit Corotational Method: analysis of slender panels assemblage
		12.15-12.35		A. Temponi, A. Salvadori, F. Mordenti, A. Carini, P. Pelizzari	On the approximation of 3D hyperbolic boundary integral equation:
		12.35-12.55		T. Panzeca, A. La Mantia, M. Salerno, S. Terravecchia	Modellazione lineare delle grandezze di contorno nell'analisi per sottostrutture delle piastre inflesse vi

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
ST-02b (Elementi finiti, elementi di contorno)	lunedì 14 14.10-16.10 aula ?	14.10-14.30		T. Panzeca, F. Cucco, E. Parlavecchio, L. Zito	La formulazione simmetrica alla Galerkin del BEM in elastoplasticità
		14.30-14.50		G. Garcea, A. Madeo, G. Zagari	Implicit Corotational Method: FEM implementation
		14.50-15.10		P. Tortolini, M. Petrangeli, E. Spacone	Un elemento di trave 2D per la modellazione dell'interazione N-M-V
		15.10-15.30		F. Parinello, B. Failla	Rigid-damaging-frictional constitutive model for delamination analysis of joined bodies via XFEM with tip
		15.30-15.50		M. Mazza, M. Aristodemo	Construction and performances of a symmetric boundary element model for thin plates based on a complex
		15.50-16.10		A. Bilotta, E. Turco	Solution of the Cauchy problem in elasticity via hybrid FEV
ST-02c (Elementi finiti, elementi di contorno)	lunedì 14 16.30-18.30 aula ?	16.30-16.50		M. Di Paola, G. Failla, G. Inzerillo, M. Zingales	Non-local finite element method for the analysis of elastic continuum with long-range central interaction
		16.50-17.10		E. Carrera, M. Petrolo, G. Giunta, S. Belouettar	Higher order beam finite elements with only displacement degrees of freedom
		17.10-17.30		S. Lopez, G. La Sala	Statical and dynamical structural analysis by a kinematical description of the small strains involving finite
		17.30-17.50		E. Manconi, B.R. Mace	Wave propagation in axisymmetric structures from finite element analysis
		17.50-18.10		M. Cuomo, L. Greco	A finite element cable for the analysis of cable nets
ST-03 (Identificazione, controllo, ottimizzazione)	lunedì 14 16.30-18.30 aula ?	16.30-16.50		S. Benfratello, F. Giambanco, L. Palizzolo	Optimal design of structure under dynamic loading
		16.50-17.10		L. Marcheggiani, S. Lenzi, R. Chacon	On the dynamics and control of complex phenomena in parametrically driven chains of pendulum
		17.10-17.30		M. Bruggi, C. Cinquini	On an alternative approach to pressure loads problems in topology optimization
		17.30-17.50		G. Fileccia Scimemi, S. Rizzo	Multi-Objective Parameters Identification via ACOR algorithm
		17.50-18.10		A. Pau, F. Vestroni	Damage characterization in a bar using guided waves
		18.10-18.30		G. Catania, S. Sorrentino	Identification of non-conventional viscoelastic models for polymeric vibrating structure
ST-04 (Analisi elasto-plastica, analisi limite, casi reali)	martedì 15 10.00-12.00 aula ?	10.00-10.20		O. Barrera, A.R.S. Ponter, A.C.F. Cocks	Application of the Linear Matching Method to materials that exhibit softening
		10.20-10.40		F. Marmo, L. Rosati	Extension of the fiber-free approach to complex stress-strain models for concrete
		10.40-11.00		M. Fraldi, A. Gesualdo, L. Nunziante	Bounds for plastic multipliers in combined loadings: applications to solids and structure
		11.00-11.20		G. Bolzon, T. Garbowski, G. Maier, G. Novat	Parameter calibration strategies for elastic-plastic models of thin foil
		11.20-11.40		V.A. Salomoni, C.E. Majorana, G.M. Giannuzzi, A. Miliozzi	Structural Design of Parabolic-Trough Solar Concentrator
		11.40-12.00		A. Bacci	Considerazioni sul progetto di strutture in acciaio soggette ad un'esplosione subacquea
ST-05 (Continui monodimensionali)	martedì 15 13.50-15.50 aula ?	13.50-14.10		G. Failla, A. Santini, M. Zingales	A Wavelet-Galerkin Method for a 1D Elastic Continuum with Long- Range Interaction
		14.10-14.30		G. Failla, N. Impollonia	Closed-form Solutions for Euler-Bernoulli Non-uniform and Discontinuous Beams via Generalized
		14.30-14.50		Al. Carpinteri, G. Lacidogna	Functions
		14.50-15.10		D. Genovese	A global analysis of tall buildings subjected to horizontal load:
		15.10-15.30		N. Impollonia, G. Ricciardi, F. Saitta	A Generalized Method for the Static Analysis of a Monodimensional Prestressed Continuum
		15.30-15.50		L. Bartolini, L. Marchionni, L. Vitali	On the Deformed Shape of an Elastic Cable under General Load Condition
ST-06a (FRP)	martedì 15 13.50-15.50 aula ?	13.50-14.10		G. Milani, E. Milani, A. Tralli	Strength and Deformation Capacity of Corroded Pipes
		14.10-14.30		L. Ascione, V.P. Berardi, A. D'Aponte	Homogenized Upper Bound FE limit analysis model for FRP-reinforced masonry vault
		14.30-14.50		G. Giambanco, T. Turetta, A. Cottone	An experimental and numerical investigation on the viscous behavior of FRP material
		14.50-15.10		R. Capozucca	Numerical analysis of the mechanical response of wood glulam beams reinforced through the thickness by
		15.10-15.30		F. Ascione, V. Cerenza, L. Feo	Assessment of rc beams strengthened with NSM CFRP rods by static and dynamic tests
		15.30-15.50		A. Baratta, I. Corbi	A numerical and experimental investigation on the shear forces distribution among the bolts of GFRP bolted
ST-06b (FRP)	martedì 15 16.10-17.10 aula ?	16.10-16.30		L. Ascione, V.P. Berardi, A. D'Aponte	Design strategies for FRP reinforcement of no-tension structure:
		16.30-16.50		A. Acciai, R. Nudo	Time-dependent behavior of PC beams externally plated with prestressed FRP laminates: a mechanical
		16.50-17.10		G. Mazzucco, V. Salomoni, C. Majorana, C. Pellegrini	model
ST-07a (Instabilità e collasso)	mercoledì 16 10.00-12.00 aula ?	10.00-10.20		G. Ferraro, G. Olivetti	Modalità di crisi di elementi in calcestruzzo armati con barre in FRP
		10.20-10.40		M. Pignataro, N.L. Rizzi, G.C. Ruta, V. Varano	Three-dimensional modelling of bond behaviour between concrete and FRP reinforcement
		10.40-11.00		N.M. Auciello	On the stability of elastomeric bearings and isolation system:
		11.00-11.20		R. Battaglia, A. Tralli, A. Cazzani	Buckling of thin-walled frames
		11.20-11.40		E. Ruocco, V. Minutolo, S. Ciaramella	Sulla stabilità e vibrazioni di travi caricate con "follower force"; Il Boundary Characteristic Orthogona
		11.40-12.00		M. Paggi, Al. Carpinteri	Polynomial method (BCOPs)

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
ST-07b (Instabilità e collasso)	mercoledì 16 aula ?	13.50-14.10		E. Masoero, F.K. Wittel, B.M. Chiaia, H.J. Herrmann	Parametric study of the progressive collapse of 2D framed structure:
		14.10-14.30		An. Carpinteri, R. Brighenti, S. Vantadori	Effect of mechanical and thermo-mechanical treatments on fatigue behaviour of V-shaped notched round bars
		14.30-14.50		C. Floris	Stochastic Stability of Elastic and Viscoelastic Column:
		14.50-15.10		U. Alibrandi, N. Impollonia, G. Ricciardi	Post-Buckling Analysis of Systems with Uncertain Parameter:
		15.10-15.30		P. Foti, A. Fraddoso, S. Marzano, M.D. Piccioni	Annular shear driven instability for an incompressible elastic tube
ST-08a (Dinamica strutturale: modelli)	mercoledì 16 aula ?	15.30-15.50		I. Ario, M. Nakazawa	Dynamic post-buckling analysis of the microfolding Augusti 3D model with local symmetry-breaking
		13.50-14.10		M. Lepidi, A. Luongo	Multi-parameter perturbation methods for the eigensolution sensitivity in discrete systems exhibiting multiple frequency veering
		14.10-14.30		G. Rega, E. Saetta	Vibrazioni nonlineari della piastra laminata in risonanza esterna ed interna: formulazione ed analisi di un modello con curvatura nonlineari
		14.30-14.50		D. Bruno, P. Lonetti, A. Manna	Dynamic phenomena of interfacial cracks in laminated structures:
		14.50-15.10		A. Luongo, F. D'Annibale	Linear stability analysis of multiparameter dynamical systems via a numerical-perturbation approach
ST-09a (Murature)	mercoledì 16 aula ?	15.10-15.30		M. Breccolotti, Fi. Ubertini, I. Venanzi	Natural frequencies of prestressed concrete beams: theoretical prediction and numerical validation
		15.30-15.50		Al. Carpinteri, N. Pugno, A. Saporà	Dynamic analysis of fractal antennas
		13.50-14.10		A. Bacigalupo, L. Gambarotta	Micro-polar and second-order homogenization of periodic masonry
		14.10-14.30		S. Marfia, E. Sacco	Micro-macro analysis of periodic masonry wall:
		14.30-14.50		E. Bernardini, N. Cavalagli, F. Cluni, V. Gusella	Masonry strength domain by homogenization in generalized plane stress
ST-08b (Dinamica strutturale: modelli)	mercoledì 16 aula ?	14.50-15.10		D. Addessi, V. Ciampi, M.L. De Bellis, A. Paolone	Analisi multi-scala dei pannelli in muratura basata su formulazioni agli elementi finiti misti
		15.10-15.30		A. Badalà, M. Cuomo, G. D'Agata	Analisi limite di volte a botte rinforzate con CFRP
		15.30-15.50		R. Barsotti, S. Bennati, A. Dami	A simple structural model for a masonry arch-wall system subjected to dead vertical load
ST-09b (Murature)	giovedì 17 aula ?	16.10-16.30		A. Feriani, M.G. Mulas	Iterative Solution Methods for Coupled Vehicle-Structure System
		16.30-16.50		A. Luongo, G. Piccardo	Analisi perturbativa e numerica di un cavo sospeso percorso da carichi viaggianti
		16.50-17.10		A. Bacci, S. Bennati, S. Peveri	Dynamic interaction among passive protection structures and blast shock waves
ST-10a (Dinamica non lineare)	giovedì 17 aula ?	9.00-9.20		M. Girardi	Analytical and numerical methods for the dynamic analysis of slender masonry structure
		9.20-9.40		N. Cavalagli, F. Cluni, V. Gusella	An interface micro-mechanical approach for the masonry mechanisms analysis:
		9.40-10.00		A. Cecchi, C. Cennamo, B. Chiaia	Dal modello continuo ai macro-elementi: le implicazioni dell'effetto scala sulle murature
ST-11a (Compositi, laminati, FGM)	giovedì 17 aula ?	10.00-10.20		D. Addessi, A. Paolone, E. Sacco	A nonlinear Cosserat-Cauchy homogenization procedure for regular masonry based on transformation fields
		10.20-10.40		D. Aita, R. Barsotti, S. Bennati	Load-bearing capacity of circular, pointed and elliptical masonry arches:
		10.40-11.00		L. Ruzziconi, S. Lenci	Propagation of detached bubbles in a semi-infinite beam laid on a unilateral elastic support
ST-10b (Dinamica non lineare)	giovedì 17 aula ?	9.00-9.20		G. Lancioni	Non-linear normal modes of a fixed-moored offshore catenary rise:
		9.20-9.40		C.E.N. Mazzilli, C.T. Sanches	Nonlinear modal analysis of 2-DOF piecewise linear mechanical system
		9.40-10.00		P. Casini, F. Vestroni	Seismic protection of full scale seismically excited steel structures through Targeted Energy Transfer
		10.00-10.20		C. Tripepi, F. Nucera, A. Vakakis, L. Bergman, M. McFarland	On the Dynamics of Rigid Block Motion Under Strong Shaking
		10.20-10.40		A. Baratta, O. Corbi	Nonlinear phenomena in the dynamics of a cable-supported beam
ST-11b (Compositi, laminati, FGM)	giovedì 17 aula ?	10.40-11.00		L. Ruzziconi, S. Lenci	Methods of analysis of laminated glass
		9.00-9.20		M. Cuomo, G. di Venti	Collapse load evaluation of pinned-joint composite plate:
		9.20-9.40		A. Pisano, P. Fuschi	How to choose an analytical model for the stress state of sandwich beams under bending:
		9.40-10.00		L. Bardella, D. Tonelli, M. Minelli	A beam-theory based method for partitioning fracture modes in delaminated beam:
		10.00-10.20		P.S. Valvo	Structural Analysis of Sails including Composite Material Mode
ST-10b (Dinamica non lineare)	giovedì 17 aula ?	10.20-10.40		B. Allotta, S. Falomi, A. Schneider, P. Molta	Elastic waves in a microcracked bar: the constitutively coupled case
		10.40-12.00		P. Trovalusci, V. Varano, G. Rega, A. Murralli	Bifurcation and stability of a two d.o.f. system under simultaneous parametric, external and self-excitation
		12.00-12.20		A. Luongo, D. Zulli	A simple model for dynamic analysis of "Hesco bastions" subjected to vehicular impact
		12.20-12.40		A. Bacci	Fractional calculus for to the solution of non-linear stochastic oscillators with viscous damper device
		12.40-13.00		S. Butera, G. Cottone, M. Di Paola	Evaluation of the influence of the thermomechanical parameters on the chaotic dynamics of shape memory oscillators
ST-10b (Dinamica non lineare)	giovedì 17 aula ?	13.00-13.20		D. Bernardini, G. Rega	Strange dynamics of bilinear oscillator close to grazing
		13.20-13.40		E. Pavlovskaya, J. Ing, S. Banerjee, M. Wiercigroch	Static and aeroelastic limit states of "Ponte della Musica" via a fully nonlinear continuum model
		13.40-14.00		A. Arena, W. Lacarbonara	

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
ST-11b (Compositi, laminati, FGM)	giovedì 17 12.00-14.00 aula ?	12.00-12.20		S. Benfratello, A. Camera	Experimental analysis of flexural behaviour of glued lamellar wood by speckle interferometry
		12.20-12.40		Al. Carpinteri, S. Invernizzi, G. Lacidogna	Scaling of fracture and Acoustic Emission in the compression of concrete-like material
		12.40-13.00		L. Contrafatto, G.T. Di Venti	Analysis of laminated glass beams using the Strong Discontinuities Approach
		13.00-13.20		S. Brischetto, E. Carrera, M. Cinefra	Refined and mixed models for free vibration analysis of functionally graded material plates and shell
		13.20-13.40		Al. Carpinteri, M. Corrado	Dimensional analysis of over-reinforced concrete beams in bending
Sessione speciale: Metodi dinamici di indagine sperimentale					
DIN-01	lunedì 14 14.10-16.10 aula ?	14.20-14.50	KL	A.L. Materazzi, I. Venanzi	Structural damage detection using dynamic response: state-of-the-art and prospect
		14.50-15.10		R. Alaggio, G. Rega	Unfolding of complex dynamics of sagged cables around a divergence-Hopf bifurcation: theoretical model and experimental results
		15.10-15.30		G. Failla, A. Santini, M. Pappalico, A. Francomano	Wavelet-based Estimation of Fully Non-stationary Spectra and Applications to Seismic Engineering
		15.30-15.50		P. Cacciola, N. Maugeri, G. Muscolino	Structural Identification via time-domain sensitivity analysis
		15.50-16.10		S. Caddemi, I. Calò, M. Marletta	The dynamic non-linear behaviour of beams with closing cracks
DIN-02	lunedì 14 16.30-18.30 aula ?	16.30-16.50		S. Caddemi, I. Calò, S. Liseni	A procedure for the identification of concentrated damages on beams by free vibration test
		16.50-17.10		D. Spina, C. Valente, S. Gabriele	Non classical modal parameters identification via dynamic response complexification
		17.10-17.30		L. Faravelli, S. Casciati, C. Fuggini	Full-scale experimental dynamic tests using GPS sensor
		17.30-17.50		D. Zulli, R. Alaggio, F. Benedettini	Frequency-avoiding in arch bridges: a possible structural health monitoring approach
		17.50-18.10		A. Reggio, M. De Angelis, S. Perno	Controllo della risposta dinamica di strutture dotate di TMD ad elevato rapporto di massa: analisi numeriche e sperimentali
		18.10-18.30		A. Salvatori	In situ vibration monitoring of "Minerva Medica" temple in Rome
DIN-03	martedì 15 10.00-12.00 aula ?	10.00-10.20		D. Cancellara, A. de Majo, M. Modano	Prove sperimentali in situ per la caratterizzazione dinamica di una struttura e relativa sottostruttura con controllo sismico passivo
		10.20-10.40		A. Greco, A. Pau	The dynamic stiffness method for detection of concentrated damages in elastic frame
		10.40-11.00		F. Eusani, F. Benedettini	Modal and Structural Identification of a Masonry Chimney
		11.00-11.20		C. Gentile	Radar-based measurement of deflections on bridges and large structures
		11.20-11.40		F. Resta, G. Tomasini, D. Sabato	Sperimentazione di sistemi smorzanti a liquido TLCD per strutture civili
		11.40-12.00		C. Rainieri, G. Fabbrocino, F. Santucci de Magistris	Operational Modal Analysis for identification of geotechnical system
DIN-04	martedì 15 13.50-15.50 aula ?	13.50-14.10		N.D. Oliveto, G. Scalia, G. Oliveto	Time Domain Identification of Hybrid Base Isolation Systems using Free Vibration Test
		14.10-14.30		V. Sepe, G. Bellizzotti, M. Diaferio	Identification of local damage in beams and frames
		14.30-14.50		A. Morassi	Dynamical inverse problems and damage detection in steel-concrete composite beam
		14.50-15.10		F. Tubino, G. Piccardo	Vibrazioni indotte dal passo umano sui ponti pedonali: modelli numerici e osservazioni sperimentali
		15.10-15.30		P.M. Calvi, P. Venini	Toward a novel approach for damage identification and health monitoring of bridge structure
		15.30-15.50		C. Surace, K. Worden, R. Barthorpe, G. Demarie	A Comparative Study of Approaches to Damage Detection
DIN-05	martedì 15 16.10-17.10 aula ?	16.10-16.30		S. Gabriele, C. Valente, F. Brancaleoni	Model Calibration by Interval Analysis
		16.30-16.50		L. Carassale, F. Percivale	Incertezze dei parametri modali stimati mediante metodi output-only nel dominio della frequenza
		16.50-17.10		A.L. Materazzi, F. Ubertini, M. Breccolotti	Handling state variable constraints and actuator saturation in structural control strategies
Sessione speciale: Biomeccanica e biomateriali LA SESSIONE BIO-01 INIZIA 10 min PRIMA					
BIO-01	mercoledì 16 10.00-12.00 aula ?	9.50-10.20	KL	R.M. McMeeking	The mechanics of the cytoskeleton and cell adhesion
		10.20-10.40		S. Federico	Porous Fibre-Reinforced Materials Under Large Deformation
		10.40-11.00		F. Stefanoni, M. Ventre, M. Diez, V.A. Schulte, M.C. Lensen, F. Mollica, P.A. Netti	A Numerical Model for Durotaxis
		11.00-11.20		L. Cardamone, J.D. Humphrey	Origin of Residual Stress in Arteries
		11.20-11.40		L.R. Zastrow	Modelling sarcomere dynamics
		11.40-12.00		A. DiCarlo	Myofibrils: a biochemistry-based coarse model

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
BIO-02 (Macro)	mercoledì 16 13.50-15.50 aula ?	13.50-14.10		P. Nardinocchi, T. Svaton, L. Teresi	Modelling active elastic tissues: the left ventricle contraction
		14.10-14.30		M. Buonsanti, F. Filianoti, A. Pontari	Effects on a spherical aneurysm produced by local change in the blood flow-dynamic
		14.30-14.50		P. Vena, G. Pennati, D. Gastaldi, R. Contro	A membrane anisotropic model for remodeling of tissues with particular regards to cerebral aneurysm formation and growth
		14.50-15.10		G. Bianciardi, M. Buonsanti, A. Pontari, S. Tripodi	Fractal analysis and biophysical investigation of muscular tissue damaged due to low temperature
		15.10-15.30		P. Nardinocchi, L. Teresi, V. Varano	I diagrammi pressione-volume e la contrazione cardiac: A mechano-regulation model to investigate how the latency period in a mandibular distraction osteogenesis: changes for differently aged patients
BIO-03 (Sperimentale)	mercoledì 16 16.10-17.10 aula ?	16.10-16.30		R. Adamini, A. Borboni, D. Fausti, R. Faglia, M. Mor, P. Poesio	Banco prova per valvole cardiache: descrizione e risultati preliminar
		16.30-16.50		C. Colombo, F. Casolo, L. Vergani, D. Bonacini	Experimental and Numerical Study for the Optimization of a Carbon Fibre Prosthesi:
		16.50-17.10		C. Rottenbacher, D. Zaccaria, M. Gualea, G. Mimmi, G. Bonandrini, E. Buzzi	A study on the biomechanical efficiency of different cycling position:
BIO-04 (Nano-micro)	giovedì 17 9.00-11.00 aula ?	9.00-9.20		L. Lunghi, M.E. Ferretti, C. Biondi, L. Deseri	Cyclic adenosine monophosphate pathway and human trophoblast cells: is a predictive mechanical mode
		9.20-9.40		A. Ferrara, A. Pandolfi	Structured material models for soft biological tissue:
		9.40-10.00		N. Sancisi, V. Parenti-Castelli	A sequentially-defined kinetostatic model of the knee with higher pair:
		10.00-10.20		C.C.C. Capone, V. Panzetta, M.C. Pernice, P.A. Netti, M. Fraldi	Dynamic characterization and remodelling of interfaces with microstructure
		10.20-10.40		A. Cavicchi	Detection of the stiffness of the microenvironment and its spatial variations in tissue cells: a mechanical model
Sessione speciale: Meccanica di materiali e sistemi alle micro e nano scale					
MIC-01	lunedì 14 10.55-12.55 aula ?	10.55-11.25	KL	A. De Simone	Electro-mechanical coupling in nematic elastomers: statics and dynamic
		11.25-11.45		G. deBotton, M. Gei, A. Lewinstein	Modelling dielectric composites in finite deformation elasticit'
		11.45-12.05		E. Radi, P.M. Mariano	Propagazione di fratture e dislocazioni in quasicristalli bidimensional
		12.05-12.25		T. Roubicek, G. Tomassetti	A model for shape-memory alloys accounting for electric conductio
		12.25-12.45		R. Ardito, C. Comi	Thermoelastic damping in layered micromechanical resonator
MIC-02	lunedì 14 14.10-16.10 aula ?	14.10-14.30		N.M. Pugno, S.N. Gorb	Solving the Multiple Peeling and Discovering a New Angle for the Optimal Nanoadhesion of Insects.
		14.30-14.50		M. Chinappi, C.M. Casciola	Spiders and Geckos
		14.50-15.10		A. Frezzotti, M. Carnini	Slip phenomenon in water flow on hydrophobic surfaces
		15.10-15.30		F. Fraternali, T. Blesgen, A. Amendola, A. Misra, C. Daraic	Effects of Non-local Scattering on the Aerodynamic Coefficients of Nanosized Particle:
		15.30-15.50		F. Ascione, G. Mancusi	On the Mechanical Behavior of Multilayered Carbon Nanotube Foam:
MIC-03	lunedì 14 16.30-18.30 aula ?	15.50-16.10		L. Bardella	FRP adhesive lap-joints: a micro-scale mechanical approach
		16.30-16.50		E. Lepore, N. Pugno	The influence of the dissipation due to the plastic spin on the size effects describable by means of isotropic strain gradient plasticity
		16.50-17.10		V. Guidi, L. Lanzoni, A. Mazzolari	Experimental analysis on the adhesion of living tokay geckos on nanorough surface
		17.10-17.30		G. Formica, W. Lacarbonara	On the deformation field of bent crystals for channeling experiment:
		17.30-17.50		A. Corigliano, A. Ghisi, G. Langfelder, A. Longoni, F. Zarag	Eshelby continuum modeling of CNT-reinforced composites in free vibration:
		17.50-18.10		P. Ricci, C. Paternoster, A. Fabrizi, R. Cecchini, S. Spigarelli, P.V.	Polysilicon MEMS fatigue and fracture characterization via on chip testing
		18.10-18.30		Kiryukhantsev-Korneev, M. Haïdopoul	Use of nano-indentation for nano-mechanical characterisation of coatings
				F. Davi	Singularities in Landau-Devonshire potentials for Ferroelectrics Phase-Transition
Sessione speciale: Innovazione e ricerca come sostegno alla competitività industriale					
INN-01	martedì 15 10.00-12.00 aula ?	10.00-10.20		S. Zitti, R. Zannini, N. Walli, E.U. Schmitz	Ottimizzazione del processo di tornitura su centri CNC a cinematica parallela: effetti della lubrificazione.
		10.20-10.40		G. Magnanini, L. Ghergo, A. Arteconi, C.M. Bartolini, F. Polonara	tipologia d'inserto e geometria del particolare sull'usura utensile e finitura superficiale di componenti in acciaio
		10.40-11.00		N. Mancini, A. Bravetti	Impianto di liquefazione del metano per autotrazionc
		11.00-11.20		C. Paternoster, P. Serenellini, S. Spigarelli, R. Cecchini, A. Fabrizi	Caso della innovazione del processo produttivo di un componente utilizzato nell'industria automobilistic
		11.20-11.40		G. Capriotti, S. Papalini, G. Cauteruccio	Applicazioni di Ingegneria delle Superfici al settore mobile/elettrodomestic
		11.40-12.00		G. Romani, S. Piccinini, F. Rispoli, A. Corsini	Studio numerico dello stampaggio di una vasca in plastica per lavabiancheria con presenza di inserti metallici
					Elica anti-intasamento per miscelatori sommergibil

XIX Congresso Aimeta - Ancona 14-17 settembre 2009

Sessione	giorno/aula	orario	KL	autori	titolo
INN-02	martedì 15 13.50-15.50 aula ?	13.50-14.10		M. Mancini, E. Mancini	Analisi delle problematiche relative alle deformazioni dei particolari meccanici costruiti in acciai 18NiCrMo5 sottoposti a trattamento termochimico di carbocementazione
		14.10-14.30		M. Cavallari, G. D'Elia, S. Delyecchio, M. Malagò, E. Mucchi, G. Dalpiaz	On the use of vibration signal analysis for industrial quality contro
		14.30-14.50		S. Albertini, A. Borboni, M. Cotti Cottini, D. Fausti, R. Faglia, D. Pomi	Processo d'innovazione e risultati in un caso nel settore della riabilitazione automatizzata
		14.50-15.10		G. Audisio, F. Cheli, M. Velardocchia	Cyber Tyre for Vehicle Active Safety
		15.10-15.30		G. De Camillis, L. Vitaletti, M. Castelli	The numerical method approach on the domestic ventilation systems design
INN-03	martedì 15 16.10-17.10 aula ?	15.30-15.50		G. Catalucci, S. Papalini, A. Erbetta	Verifica a fatica di carrelli aeronautici
		16.10-16.30		L. Consolini, S. Lenci, G. Barnabei	A glass and stainless steel truss
		16.30-16.50		U. Galvanetto, M. Ghajari, L. Iannucci	Full body simulations of motorcyclist accident
		16.50-17.10		F. Freddi, G. Royer-Carfagni, M. Silvestri	The post-breakage response of laminated glass with the Gecko® technology
Sessione speciale: Modelli variazionali di frattura					
FRA-01	mercoledì 16 10.00-12.00 aula ?	10.00-10.30	KL	G. Dal Maso, G. Lazzaroni	A variational model for quasistatic crack growth in finite elasticity with non-interpenetration
		10.30-10.50		F. Freddi, G. Royer-Carfagni	A Variational Model for Cleavage and Shear Fracture
		10.50-11.10		A. Fortunato, M. Lippiello	Numerical studies on crack initiation at contact surface based on discontinuous finite elements with gaps and mesh minimization
		11.10-11.30		G. Gargiulo, E. Zappale	Some sufficient conditions for lower semicontinuity in SBF
		11.30-11.50		A. Pandolfi	Variational cohesive fracture models and 3D crack tracking
FRA-02	mercoledì 16 13.50-15.50 aula ?	13.50-14.20	KL	J.-J. Marigo	From initiation of cracks to fatigue: some fundamentals contribution of the variational approach to fracture
		14.20-14.40		F. Fraternali, B. Schmidt, M. Ortiz	On an Eigendeformation Approach to Brittle Fracture
		14.40-15.00		M. Bruggi, P. Venini	A truly-mixed method for cohesive crack propagation in quasi-brittle material
		15.00-15.20		C. Comi, S. Mariani, M. Negri, U. Perego	Step-by-step variational cohesive propagation in one dimension
		15.20-15.40		M. Angelillo, E. Babilio	Comparing numerical solutions for the propagation of brittle fractures based on local energy minimization with classical fracture mechanics results
Sessione speciale: Controllo di flussi LA SESSIONE FLU-01 TERMINA 10 min DOPO					
FLU-01	venerdì 14 10.55-12.55 aula ?	10.55-11.25	KL	M. Martinez, L. Vesely, C. Haigermoser, M. Onorato	Cavity Flow Control by High Frequency Forcing
		11.25-11.45		J.O. Pralits, F. Giannetti, P. Luchini	A global stability analysis of a thin-airfoil wake
		11.45-12.05		J.V. Krier, T. Sucipto	Highly Optimisable Laminar Flow Control Devices for Swept Wing
		12.05-12.25		F. Giannetti, P. Luchini, L. Marino	Three-dimensional linear stability analysis of lid-driven cavity flow
		12.25-12.45		R.S. Donelli, E. Iuliano, D. de Rosa	Suction optimization on thick airfoil to trap vortices
		12.45-13.05		G. Iuso, L. Acerno	Synthetic jets on wing for aerodynamic loads redistribution
Sessione speciale: L'approccio analitico alla dinamica bidimensionale della vorticità. E' soltanto un fatto obsoleto?					
VOR-01	venerdì 14 16.30-18.30 aula ?	16.30-17.00	KL	C. Marchioro	Incompressible fluids in two dimensions: some results and open problem
		17.00-17.20		G. Riccardi, D. Durante	An analytical contour dynamics
		17.20-17.40		G. Pedrizzetti, M. Vukicevic	Vortex formation and growth behind an orifice
		17.40-18.00		I. Gned, L. Zannetti	Patch of Vorticity in Motion