Curriculum Vitae

George N. Lampeas (Labeas)
Dr. Mechanical Engineer

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1. Personal data

Surname	: LAMPEAS (LABEAS)
First name	: Georgios (George)
Father Name	: Nestor
Mother Name	: Sofia
Place and date of birth	: Athens, 9 May 1966
Marital status	: Married, 2 children
Business address	: Laboratory of Technology and Strength of Materials, Mechanical Engineering and Aeronautics Dept., 26500 Rion –Patras , Greece
Private address	: Hleias 62 street, 26224 Patras
Mobile phone	: +30 6947 327348
E-mail	: Labeas@mech.upatras.gr
Position held	: Associate Professor at University of Patras, Greece
Department	: Mechanical Engineering and Aeronautics
Division	: Applied Mechanics, Technology of Materials and Biomechanics
Personnel website	: http://ltsm.mead.upatras.gr/lab/lang_en/personnel/view/41
Hobbies	: Sailing, Tennis, Privite Pilot – Single Engine Aircraft

2. Studies

a) Ranked as first student entering the Mechanical and Aeronautics Engineering Dept, University of Patras, (7/1984)

b) Diploma in Mechanical and Aeronautics Engineering Dept, University of Patras,. Greece (9 /1989) (mark 7.21/10)

c) Ph. D.: Mechanical and Aeronautics Engineering Dept., University of Patras; Thesis title: ‘Stress, stability and vibration analysis of composite plates by semi-analytical method’. (2 /1995)

3. Professional Activities

1989-1995: Post-graduate student of the Laboratory of Technology and Strength of Materials, Mechanical and Aeronautics Engineering Dept., University of Patras, doctoral thesis in the field of stress analysis of light structures
1991-1992: Scientific collaboration with the Institut fuer Leichtbau of RWTH Aachen – Germany, in the frame of a bilateral scientific programme.
1993-1995: Scientific collaboration at Dornier Luftfahrt A.G. in Friedrischafen-Germany
1996-1999: Scientific collaboration with the Institute of Structures and Advanced Materials, Patras, Greece
1999-2000: Professor (contractual) in Technical Institute of Chalkida (Machine design, Strength of Materials)
2000-2003: Research and Production Engineer at ELVAL S.A. (Hellenic Aluminium Industry)
2003-2010: Assistant Professor, Mechanical and Aeronautics Engineering Dept., University of Patras.
2010 - today: Associate Professor, Mechanical and Aeronautics Engineering Dept., University of Patras.

4. Participation in Professional and Scientific Societies

Technical Chamber of Greece
Pan-Hellenic Society of Electrical and Mechanical Engineers
Hellenic Metallurgical Society
Hellenic Society of Fracture Mechanics
International Society of Mesomechanics
European Aeronautics Science Network (EASN)

5. Research Activities and participation in European Research Projects

5.1 Research interests

The main research interests and activities lie in the areas of analysis of structures, with special emphasis on:

a) Development of methodologies for stress / strain analysis of light-weight structures, by analytical and numerical methods (FEM, TMM); damage analysis of metallic and composite structural aircraft components; structural analysis at different length scales, with emphasis in meso- and nanomechanics.
b) Stress and damage analysis of critical structural components, such as bolted and adhesive metallic and composite joints, as well as structural repairs and structural reinforcements.
c) Development of methodologies for the simulation of advanced manufacturing and joining techniques, such as Laser Beam Forming and Welding, Friction Stir Welding, Selective Laser Melting, with emphasis in the calculation of residual stress and distortions.
d) Numerical simulation of the impact behaviour of aircraft and automotive structures.
e) Stress and failure analysis of ageing aircraft structures under Multiside / Widespread fatigue damage.
f) Development of Verification and Validation methodologies of computational solid mechanics simulation models.

5.2 Participation in European Funded Research Projects

Participation in 46 European Funded Research Projects (see P1 to P46, below); in 15 of them as scientific responsible for Univ. Patras.

[P1] 'Development of Techniques for Processing of Large Organic Sheets, Thermoplastic Pre-pregs, Ribbons and Foils', BRITE/EURAM (1989-91).

[P2] 'Civil Aircraft Protection Against Ice – CAPRI', BRITE / AERONAUTICS (1990-92).

[P3] 'Stress and Stability Analysis of Thin Plates of Fiber Reinforced Composite Material', Bilateral Project with RWTH Aachen - Germany (1991-94).

[P4] 'Advanced Aluminium precision Casting for integrally stiffened components - ADVACAST' (1992-94).

[P5] 'Crashworthiness for commercial aircraft – CRASH', BRITE / AERONAUTICS (1993-1995).

[P6] 'Process Integrated Cost Analysis Tool – PICANT', BRITE/EURAM (1993-1995).

[P7] Greek project - 'Υπολογισμός και συμπεριφορά εξαρτημάτων από σύνθετα υλικά με τη βοήθεια Πεπερασμένων Στοιχείων και Πειραματικών μεθόδων', Πρόγραμμα κοινοπραξίας με ΑΠΘ (Χρηματοδότησης ΓΓΕΤ), 1993-1995.

[P8] 'Structural Maintenance of Aging Aircraft – SMAAC', BRITE/AERONAUTICS (1996-1999).

[P9] 'Design for Crash Survivability – CRASURV', BRITE/AERONAUTICS (1996-1999).

[P10] 'Efficient Design And Verification of Composite Structures – EDAVCOS', BRITE / AERONAUTICS (1996-1999).

[P11] 'Integrated design environment for simulation and numerical analysis of production processes 'D-SIGN' BRITE / AERONAUTICS (1999-2002).

[P12] 'Bolted Joints on Composite Aircraft Structures – BOJCAS' GROWTH-GRD1-10216 (1999-2002).

[P13] 'Economical and safe design of pressure vessels applying new modern steels – ECOPRES', (2000-2002).

[P14] 'Crashworthiness of Aircraft for High Velocity Impact - CRAHVI' (GRD-2000-25242) (2001-2004)
Univ. Patras budget: 103000 €

[P15] 'Development of short distance Welding concepts for Airframes – WELAIR'
Duration: 2003-2006
Main partners: EADS France, GKSS, EADS Germany, AIRBUS Germany, AIRBUS France, EADS M.A, ONERA, PECHINEY, SABCA, ALENIA Aeronautica, DASSAULT AVIATION, DLR, PIAGGIO AERO INDUSTRIES, INSTITUT DE SOUDURE.
Univ. Patras budget: 149450 €

[P16] 'Economic Advanced Shaping Processes for Integral Structures – Ecoshape'
Duration: 2002- 2005
(Scientific responsible for Univ. Patras)
Main partners: EADS Germany, AIRBUS Germany, AIRBUS France, ALENIA Aeronautica, DASSAULT AVIATION, EADS CCR, INASCO Hellas IWB – TU Munchen, RTM
Univ. Patras budget: 200000 €

[P17] 'Development of Innovative for Advanced Manufacturing of Thermoplastics – DINAMIT'
Duration: 2002- 2006
Main partners: EADS/CRC-F France, Airbus France, Airbus Deutschland, Airbus Espana, Airbus United Kingdom, Dassault Aviation, EUROCOPTER, LTSM, CIDAUT, LPW BAYREUTH, ACM Gmbh, Irish Composites Ltd
Univ. Patras budget: 298000 €

[P18] 'Technologies and Techniques for New Maintenance Concepts – TATEM' (Integrated Project IP)
Duration: 2004-2007

Main partners: Smiths Aerospace, AIRBUS France SAS, Alenia Aeronautica S.p.A., ATCT Ltd., Avitronics Research, DKK O.E., EADS Deutschland GmbH, EUROCOPTER S.A.S., GAMESA DESARROLLOS AERONÁUTICOS S.A., Hispano-Suiza, Israeli Aircraft Industries, INstitutul pentru Analiza, Sistemlor S.A., (INASCO), Instituto de Soldadura e Qualidade, 3d VISION, Messier-Dowty Limited, MTU Aero Engines GmbH, Stichting Nationaal Luchten, NLR, NTUA, PARAGON LTD, RSL Electronics Ltd, SAGEM SA, SINTERS, Snecma Moteurs, Snecma Services, Techspace Aero S.A., Fundación Tekniker, Thales Avionics, University of Bristol, HELLENIC AEROSPACE INDUSTRY S.A., BAE SYSTEMS, Airbus Central, Galileo Avionica SpA (a Finmeccanica Company), DIEHL Avionik Systeme GmbH, Airbus UK Ltd, AIRBUS DEUTSCHLAND GmbH, Marconi Selenia Communications S.p.A., Societa' Italiana Avionica, Technische Universität Darmstadt, DaimlerChrysler AG, Aerosystems International, University of Patras, TCD, EADS Sogerma Services, Skytek Ltd, Thales Avionics Electrical Systems SA, University of Central Lancashire, The University of Sheffield, AIRBUS ESPAÑA, S.L., FLS Aerospace (IRL), INCODEV SA, Interactive STAR, Centre National de la Recherche Scientifique, EADS CCR, Cooperative Research Centre for Advanced Composite Structures Limited, NDT Expert, Air France

Univ. Patras budget: 82550 €

[P19] 'AEROnautical application of wrought MAGnesium – AEROMAG'

Duration: 2005-2008

Main partners: Airbus Deutschland GmbH, Eurocopter, Alenia, Salzgitter Magnesium-Technologie GmbH, Otto Fuchs KG, EADS CRC Germany & France, AMT&S, VILS & VIAM, UPAT, UTH, INPG, ENSAM, TUW-IMC, Technion, UNINA

Univ. Patras budget: 200000 €

[P20] 'Advanced Low Cost Aircraft Structures – ALCAS' (Integrated Project IP)

Duration: 2005-2009

(Scientific responsible for Univ. Patras)

Main partners: A-UK, A-F, A-D, A-E, DAV, ALA, Bombardier, EADS CASA, EADSD, IAI, SAAB, ACG, FAESP, GKNAS, INBIS, Labinal, M-D, Patria, SONACA, TAI, DLR, EADS CRC-F, FSUE VIAM, NLR, TsAGI, TWI, Cad-Tech, AICIA, ATS-Kleizen, IC, Samtech, CTL, IAN, NOVA, STX, Ned-Tech, AERO, CTS, ORD, DUT, RTU, TU Dresden, UP, CU, PLYU, SWS, ENSAIT, MUT, PA, HUT, KTH, NP, SUPAERO, UPM, ECN, CEAT, INTA, RA, VZLU

Univ. Patras budget: 211000 €

[P21] 'A COncurrent approach to Manufacturing induced PArt distortion in aerospace ComponenTs – COMPACT'

Duration: 2005-2008

(Scientific responsible for Univ. Patras)

Main partners: Airbus UK, Alcan Pechiney CRV, University of Limerick, University of Bristol, Enabling Process Technology, University of Hannover, EADS

CRCG, Patras University, Dassault Aviation, Ultra RS, Institut National Polytechnique de Grenoble, University of Sheffield

Univ. Patras budget: 193380 €

[P22] 'Innovative fatigue & DAmage TOleraNce methods for the application of new structural concepts – DATON'

Duration: 2005-2008

(Scientific responsible for Univ. Patras)

Main partners: IFL TU BS, Airbus, CRC-F, CRC-G, IAI, ASMT, FOI, DLR, NLR, IDMEC, Pisa, QMW, Brno, SHU

Univ. Patras budget: 150000 €

[P23] 'Non-linear MUltiSCAale Analysis of Large Aero-Structures – MUSCA'

Duration: 2005-2009

(Scientific responsible for Univ. Patras)

Main partners: EADS-CRC-F, EADS-CRC-G, Airbus-F, Airbus-UK, Airbus-G, Alenia, SAAB, Dassault Aviation, DLR/BS, NLR, FOI/FFA, INASCO, University of Patras, CENAERO, LMT Cachan, University of Cranfield, University of Naples

Univ. Patras budget: 150000 €

[P24] 'Improve and Assess Repair Capability of Aircraft Structures IARCAS'

Duration: 2005-2006

Main partners: Aérospatiale-Matra-Airbus, Aérospatiale-Matra-Centre Commun de Recherche, European Aeronautic Defence and Space Company, Construcciones Aeronauticas, BAE SYSTEMS (Operations) Limited, Integrated Aerospace Sciences Corporation, Finmeccanica S.p.A-, ALENIA AERONAUTICA, SONACA SA, Centre d'Essais Aéronautiques de Toulouse, Defence Evaluation and Research Agency,Trinity College of Dublin, Technische, Universiteit Delft, Institute of Structures and Advanced Materials,Société Anonyme Belge de Constructions Aéronautique

Univ. Patras budget: 130000 €

[P25] 'Materials, Process and CAE tools developments for Pre-impregnated Carbon Binder yarn preform composites PRECARBI'

Duration: 2008-2010

Main partners: Cranfield Univ (UK), Toho Tenax (D), AIRBUS ES (ES), AIRBUS-D (D), SICOMP (SE), Eurocopter (D), FACC (A), ESI Software (F), Sigmatex (I), Univ. of Latvia (LV), Huntsman(CH)

Univ. Patras budget: 100000 €

[P26] 'Modular Joints for Aircraft Composite Structures MOJO':

Duration: 2006-2009

(Scientific responsible for Univ. Patras)

Main partners: EADS-G, Biteam AB, SECAR Technology GmbH SC, Kungliga Tekniska högskolan Stockholm, KTH, VZLU, Dassault Aviation, Eurocopter Deutschland GmbH, EADS-Corporate Research Center France, S.A.B.C.A., DLR. CRC-ACS

Univ. Patras budget: 210000 €

[P27] 'Cellular Structures for Impact Performance CELPACT'

Duration: 2006-2009

(Scientific responsible for Univ. Patras)

Main partners: German Aerospace Center, DLR, Germany, University of Liverpool ULIV UK, University of Oxford, UK, RWTH Aachen, Germany, ENS de Cachan, France, University of Stuttgart, Germany, Brno University of Technology, Czech Republic, ATECA France, Airbus-Deutschland, Germany, EADS-CCR CRC-F and CRC-G

Univ. Patras budget: 260000 €

[P28] 'COst Effective INtegral Metallic Structures COINS'

Duration: 2006-2009

(Scientific responsible for Univ. Patras)

Main partners: BAE Systems, Airbus D, Alenia, Dassault, SABCA, SHORTS, ALCAN, Piaggio, EADS F, EADS G, GKSS, Cranfield University, Fatronik, Airbus UK

Univ. Patras budget: 260000 €

[P29] 'Cost-Effective Small AiRcraft CEASAR'

Duration: 2006-2010

Main partners: Výzkumný a zkušební letecký ústav, a.s. VZLU Czech Republic, Centro Italiano Ricerche Aerospaziali ScpA CIRA Italy, DLR Germany, EADS –CRC, EUROCOPTER S.A.S. France, EVEKTOR Czech Republic, FOI Sweden, GAMESA Spain, HELLENIC AEROSPACE INDUSTRY S.A. Greece, LIEBHERR LTS France, ONERA France, PIAGGIO AERO Italy, SOCATA France, TURBOMECA (TM) France, University of Manchester United Kingdom, VUT Brno Czech Republic, RWTH-AC Germany, Technische Universität München, Institute of Energy Systems IES Germany

Univ. Patras budget: 150000 €

[P30] 'More Affordable Aircraft Structure Lifecycle through eXtended, Integrated, & Mature nUmerical Sizing – MAAXIMUS'

Duration: 2009-2013

Main partners: 70 partners form 15 European counties.

Univ. Patras budget: 240000 €

[P31] 'Industrialization of Manufacturing Technologies for Composite Profiles for Aerospace Applications - IMAC-PRO'

Duration: 2008-2011

Main partners: EADS-D Germany, Eurocopter Germany, iSAM Germany, FIBRE Germany, Kümpers Germany, USTUTT Germany, DLR Germany, DASSAV France, SABCA Belgium, CENAERO Belgium, RUAG Switzerland, FHNW Switzerland, SECAR Austria, Westcam Austria, HAI Greece, INASCO Greece, IAI Israel, VZLU Czech Republic, Alenia Italy

Univ. Patras budget: 220000 €

[P32] 'Advanced Dynamic Validations using Integrated Simulation and Experimentation – ADVISE'

Duration: 2009-2012

(Scientific responsible for Univ. Patras)

Main partners: Eidgenössische Materialprüfungs- und Forschungsanstalt Swiss, Airbus UK, Dantec, Dynamics GmbH, EC Joint Research Centre – IHCP, University of Liverpool, High Performance Space Structure Systems Germany, Michigan State University US, Centro Ricerche Fiat Italy

Univ. Patras budget: 280000 €

[P33] [Cost Effective Reinforcement of Fastener Areas in Composites – CERFAC'

Duration: 2009-2013

(Scientific responsible for Univ. Patras)

Main partners: CENAERO, SABCA, VZLU, DLR, EADS-IWG, ECD, USTUTT, DASSAULT, EADS-IWF, NLR, FHNW, ZHAW, BITEAM, KTH

Univ. Patras budget: 290000 €

[P34] 'Extended Non-Destructive Testing of Composite Bonds –ENCOMB'

Duration: 2009-2013

Main partners: Fraunhofer, Airbus, EADS-D, UnivBris, RECENDT, IRE-NASU, MP-PAN, A2, EPFL, ENEA, CNRS, EADS-F, EASN TIS

Univ. Patras budget: 400000 €

[P35] 'SEnsor on StructuAl Health Monitoring - SESAMO' (European Defence Agency)

Duration: 2010-2012

Main partners: MBDA IT, UNIPI, MAHYTEC, AVIOSPACE, TESEO, NHRF, EDIS

Univ. Patras budget: 196000 €

[P36] 'HElicopter fuselage Crack MoniToring and prognosis through on-board sensOR network –HECTOR' (European Defence Agency)

Duration: 2009-2011

Main partners: POLIMI, Agustawestland, Vitrociset, CMR, SINTEF, UNIZA, AGH

Univ. Patras budget: 122000 €

[P37] 'Smart Intelligent Aircraft Structures –SARISTU'

Duration: 2011-2016

Main partners: 66 partners from 12 European countries.

Univ. Patras budget: 500000 €

[P38] 'Strain Monitoring of Composite Stiffened Panels using sensors – STRAINMON'
Duration: 2012-2013
Main partners: VZLU
Univ. Patras budget: 50000 €

[P39] 'Boltless assembling Of Primary Aerospace Composite Structures –BOPCAS'
Duration : 2012-2016
Main partners: CENAERO, SABCA, VZLU, DLR, EADS, USTUTT, UCL, NLR, ZHAW, BOMBARDIER, IFAM, AIRBUS, FIDAMC
Univ. Patras budget: 385000 €

[P40] Simulation Based Solutions for Industrial Manufacture of Large Infusion Composite Parts - INFUCOMP' (EU FP7)
Duration : 2008-2013
Main partners: Bombardier Aerospace, Piaggio Aero, Hexcel ESI Group, INASCO, Cranfield University (UK), Ecole des Mines de Douai and Saint-Etienne, Katholieke Universiteit Leuven, Institute for Aircraft Design, SWEREA, SICOMP
Univ. Patras budget: 120000 €

[P41] 'Innovative Manufacturing of Ti Sheet Parts for Cost-Efficiency and Flexibility –INMA' (EU FP7)
Duration : 2010-2014
(Scientific responsible for Univ. Patras)
Main partners: Fatronik, EADS Innovation Works, DENN, VZLU, TWI, RWTH-IBF, LIVERPOOL, EASN, AIRBUS Fr.
Univ. Patras budget: 400000 €

[P42] 'Smart Aircraft in Emergency Situations -SMAES' (EU FP7)
Duration : 2011-2014
(Scientific responsible for Univ. Patras)
Main partners: Dassault Aviation, ESI, DLR, Cranfield University, Airbus Military, Altair Engineering, ONERA, University of East Anglia, Alenia Aeronautica, INSEAN, Airbus Operations, CIRA, Technische Universität Hamburg-Harburg, Technische Universität Dresden.
Univ. Patras budget: 360000 €

[P43] 'Innovative advanced lightweight materials for the next generation of environmentally-friendly electric vehicles – EVOLUTION' (NMP.2012-2)
Duration : 2012-2016
(Scientific responsible for Univ. Patras)
Main partners: 25 partners from 9 European countries
Univ. Patras budget: 400000 €

[P44] 'Validation of Numerical Engineering Simulations: Standardisation Actions –VANESSA' (NMP.2012.4.0-2)

Duration : 2012-2014

(Scientific responsible for Univ. Patras)

Main partners:Eidgenössische Materialprüfungs- und Forschungsanstalt Swiss, Dantec, Dynamics, University of Liverpool, Centro Ricerche Fiat Italy.

Univ. Patras budget: 50000 €

[P45] 'GREen Turboprop Experimental Laminar Flow Wind Tunnel Testing –GRETEL', CS2 Innovation Actions (IA).

Duration : 2016-2018

Main partners: REDAM, ALTRAN TECHNOLOGIES, DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV (DLR), INASCO, INVENT.

Univ. Patras budget: 320000 €

[P46] 'Improving the crashworthiness of composite transportation structures — ICONIC' Marie Skłodowska-Curie Actions (MSCA) - Innovative Training Networks (ITN) H2020-MSCA-ITN-2016

Duration : 2016-2019

(Scientific responsible for Univ. Patras)

Main partners: THE QUEEN'S UNIVERSITY OF BELFAST, DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV (DLR), UNIV. OF ULSTER, SICOMP, SHORT BROTHERS PLC, CENTRO RICERCHE FIAT, UNIV. OF LIMERICK , POLITECNICO DI TORINO.

Univ. Patras budget: 460000 €

6. Teaching activities

6.1. Lectures for the students of Mechanical and Aeronautics Engineering Dept, University of Patras

a) Analysis of Aircraft Structures I, II (for the students of 7^{th} and 8^{th} semester, respectively)
b) Strength of Materials I, II (for the students of 3^{th} and 4^{th} semester, respectively)
c) Fracture Mechanics (for the students of 8^{th} semester)
d) Advanced Strength of Materials (for the students of 9^{th} semester)
e) Structural Integrity (for the students of 9^{th} and 10^{th} semester)

6.2. Student and Diploma theses

Since 2003, I have supervised 39 student and 44 diploma theses (Diploma thesis is the equivalent to Master theses) of the students of the Department of Mechanical Engineering and Aeronautics.

6.3 PhD theses

I have supervised the following finalized PhD theses:

Moraitis Gerasimos (2009), 'Thermomechanical Simulation of Advanced Joining Processes : Friction Strir Welding and Laser Beam Welding'

Belesis Stefanos (2010), 'Development of methodologies for non-linear numerical analysis of Large-scale Structures'

Stamatelos Dimitrios (2010), 'Analysis and preliminary design of unconventional aircraft wing structures'

Mylonas George (2012), 'Development of shot peening process simulation model'

Pasialis Vasilios (2016), 'Validation of solid mechanics computational simulation models by Digital Image Correlation methods'

Perogamvros Nikolaos (2016), 'Development of experimental and numerical methodologies for the investigation of composite and hybrid metal/composite fastened joints subjected to impact loads'

I am currently supervising three more PhD students on the topics of 'Structural Integrity', 'Analysis of Cellular Structures' and 'Simulation of Composite Structures' under high strain rate conditions. In addition, I have participated in the supervision and examination committees of 14 PhD students of Greek, European and International Universities.

7. Administrative and other scientific responsibilities

A. Participation in the administrative committiees of the Dept. of Mechanical Engineering and Aeronautics of Univ. Patras, since my election in the position of Assistant Professor (2003) and the election in the position of Associate Professor (2010).

B. Elected as director of the Division of Applied Mechanics, Technology of Materials and Biomechanics' of the Department, for the academic years 2015-16 and 2016-17.

C. Since the academic year 2011-12 until today, I participate in the Internal Evaluation Unit of the Department, while since the academic year 2012 -2013 until today I am the coordinator of the Evaluation Unit, responsible for the annual internal evaluation Report of the Department, as well as for all external evaluations of the Department and the University.

D. Since the academic year 2014-2015 until today, I participate as member in the Graduates committee of the Department.

E. Since the academic year 2014-2015 until today, I participate as member in the Aeronautical committee of the Department.

F. Since 2006 until today, I organize a thematic network of the 'European Aeronautics Science Network – EASN', in collaboration with College of Aeronautics Cranfield University, United Kingdom, Lehrstuhl für Luftfahrttechnik, Technische Universität München, Germany, Ecole Nationale Supérieure de Mécanique et d'Aérotechnique (ENSMA), France, Chalmers Tekniska Högskola AB, Department of Thermo and Fluid Dynamics, Sweden, Laboratory of Technology and Strength of Materials, University of Patras, Greece, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany.

G. Evaluator of proposals for FP6, FP7, Horizon 2020, Clean Sky and the Research Secretariats of Greece, Cyprus and Latvia.

H. Reviewer in a high number of scientific journals, such as:
- Journal of Aircraft
- Journal of Materials Processing Technology (Elsevier)
- Fatigue and Fracture of Engineering Materials and Structures (Blackwell)
- Composites Part A και Composites part B: Engineering (Elsevier)
- Strain (Elsevier)
- Science and Technology of Welding and Joining (Maney publishing)
- Materials and Design (Elsevier)
- Journal of Composite Materials
- Composite Structures (Elsevier)
- Aerospace Science and Technology (Elsevier)
- International Journal of Impact Engineering (Elsevier)

I. Editorial board member of the journal ‘International Journal of Structural Integrity’, which is the official Journal of the European Aeronautics Science Network (Emerald) and of the journal ‘Journal of Computational Engineering’ (Hindawi).

8. Scientific publications

The citation history according to google scholar (Oct. 2016) is as follows:
(https://scholar.google.gr/citations?user=5HADT8EAAAAJ&hl=en)

Citation indices	All	Since 2011
Citations	**1399**	1073
h-index	**20**	18
i10-index	32	28

The citation history according to scopus (Oct. 2016) is as follows:
(https://www.scopus.com/results/authorNamesList.uri?origin=searchauthorlookup&src=al&edit=&poppUp=&basicTab=&affiliationTab=&advancedTab=&st1=LAMPEAS&st2=g&institute=&_exactSearch=on&orcidId=&authSubject=LFSC&_authSubject=on&authSubject=HLSC&_authSubject=on&authSubject=PHSC&_authSubject=on&authSubject=SOSC&_authSubject=on&s=AUTH--LAST--NAME%28LAMPEAS%29+AND+AUTH--FIRST%28g%29&sdt=al&sot=al&searchId=E6819C53E151D27F26796B7E2FB0434A.wsnAw8kcdt7IPYLO0V48gA%3A291&sid=E6819C53E151D27F26796B7E2FB0434A.wsnAw8kcdt7IPYLO0V48gA%3A291)

Citation indices	Total	Since 2012
Citations	**943**	651
h-index	**16**	

8.1 Ph.D. thesis title: 'Stress, stability and vibration analysis of composite plates by semi-analytical method'. (2 /1995)

8.2 Lecture notes:

1) Th. Kermanidis and G. Lampeas
'Advanced Strength of Materials (2006)', (Patras university lecture notes)
2) G. Lampeas
'Analysis of Aircraft Structures' (2015)
3) Th. Kermanidis and G. Lampeas
Engineering Fracture Mechanics (2015)

8.3 Publications in international journals :

A. Publications in peer reviewed international scientific journals

J1. Th. Kermanidis and **G. Labeas**
'Static and Stability Analysis of Composite Plates by a Semi-Analytical Method', *Computers & Structures*, Vol. 57, no. 4, pp. 673-679, 1995.

J2. J. Diamantakos, **G. Labeas**, Sp. Pantelakis and Th. Kermanidis,
'A model to assess the fatigue behaviour of ageing aircraft fuselage', *Fatigue and Fracture of Engineering Materials and Structures*, 24, pp. 677-686, 2001.

J3. K.I. Tserpes, **G. Labeas**, P. Papanikos and Th. Kermanidis
'Strength prediction of bolted joints in graphite/epoxy composite laminates', *Composites Part B: Engineering,* Vol. 33, is. 7, pp. 521-529, 2002.

J4. **G. Labeas,** Th. Kermanidis, J. Diamantakos
"Efficient engineering approaches for the prediction of fatigue propagation of corner cracks in the case of Multiple Site Damage", *Facta Universitatis*, Series Mechanics, Automatic Control and Robotics , ISSN 0354 – 2009, vol. 3, no. 13, pp. 671-688, 2002.

J5. **G. Labeas**, J. Diamantakos, Al. Kermanidis, Sp. Pantelakis
"Assessment of Widespread Fatigue Damage in the Presence of Corrosion", *Facta Universitatis*, Series Mechanics, Automatic Control and Robotics , ISSN 0354 – 2009, vol. 3, no. 13, pp. 689-706, 2003.

J6. D. Pavlou, **G. Labeas**, N. Vlachakis and F. Pavlou
"Fatigue Crack Propagation Trajectories Under Mixed Mode Cyclic Load*", Engineering Structures*, 25, pp. 869-875, 2003.

J7. **G. Labeas** and Th. Kermanidis
"Crushing behaviour of the Energy Absorbing 'Tensor Skin' panels", *Fatigue and Fracture of Engineering Materials and Structures*, vol. 26, pp. 449-457, 2003.

J8. K.I. Tserpes, P. Papanikos, **G. Labeas** and Sp. Pantelakis
"Fatigue damage accumulation and residual strength assessment of CFRP laminates", *Composite Structures*, 63, pp. 219-230, 2004.

J9. Th. Diamantoudis, **G. Labeas**
'Stress Intensity Factors of semi-elliptical surface cracks in pressure vessels by global-local Finite Element methodology', *Engineering Fracture Mechanics*, 72, pp.1299-1312, 2005.

J10. **G. Labeas** and J. Diamantakos
'Analytical prediction of crack coalesce in Multiple Site Damaged Structures', *International Journal of Fracture*, 134, pp. 161-174, 2005.

J11. Th. Kermanidis, **G. Labeas**, M. Sunaric and R. Ubels,
'Development and validation of a novel bird strike resistant composite leading edge structure', *Applied Composite Materials*, 12, pp. 327-353, 2005.

J12. P. Papanikos, K.I. Tserpes, **G. Labeas** and Sp. Pantelakis
'Progressive damage modelling of bonded composite repairs', *Theoretical and Applied Fracture Mechanics*, 43, pp. 189-198, 2005.

J13. **G. Labeas**, J. Diamantakos and Th. Kermanidis

'Crack link-up for multiple site damage using an energy density approach', Theoretical and Applied Fracture Mechanics, 43, pp. 233-243, 2005.

J14. Crump, S., Burguete, R., Sim, W.-M., De Oliveira, A., Van Der Veen, S., Boselli, J., Robinson, J., Smith, D., Bancroft, C., Denkena, B., Heckenberger, U., **Lampeas, G.**, Apicella, A., Thomas, F., Deschamps, A., Yates, J.
'A concurrent approach to manufacturing induced part distortion in aerospace components', '*Materials Science and Technology'*, Volume 4, Pages 75-86, 2005.

J15. **G. Labeas** and Th. Kermanidis
'Stress multiaxiality factor for crack growth prediction using the strain energy density theory', *Theoretical and Applied Fracture Mechanics*, 45, pp. 100-107, 2006.

J16. Al. Kermanidis, D. Stamatelos, **G. Labeas** and Sp. Pantelakis
'Tensile behaviour of corroded and hydrogen embrittled 2024 T351 aluminium alloy specimen', *Theoretical and Applied Fracture Mechanics*, 45, pp. 148-158, 2006.

J17. Th. Kermanidis, **G. Labeas**, M. Sunaric, A. Johnson and M. Holzapfel
'Bird strike simulation on a novel composite leading edge design', *International Journal of Crashworthiness*, vol. 11, no. 3, pp. 189-201, 2006.

J18. **G. Labeas** and J. Diamantakos
'Residual strength prediction of multiple cracked stiffened panels', *Fatigue and Fracture of Engineering Materials and Structures*, vol. 29, pp. 365–371, 2006.

J19. **G. Labeas**, J. Diamantakos and M. Sunaric
'Simulation of the electro-impulse de-icing process of aircraft wings', *Journal of Aircraft*, vol. 43, no. 6, p. 1876-1885, 2006.

J20. T.G. Chondros and **G. N. Labeas**
'Torsional vibration of a cracked rod by variational formulation and numerical analysis', Journal of Sound and Vibration 301, pp. 994-1006, 2007.

J21. **G. Labeas**, S. Belesis and D. Stamatelos
'Interaction of Damage Failure and Post-buckling behavior of Composite plates with cut-outs by Progressive Damage Modelling', in Composites Part B: Engineering, Volume 39, Issue 2, pp. 304-315 2008.

J22. T.G. Chondros, **G. N. Labeas**, M. Linardopoulou and T. Kermanidis
"Lateral Vibration of a fatigue cracked free-free beam by variational formulation and numerical analysis", *International Journal of Advances in Mechanics and Applications of Industrial Materials*, IJAMAIM 1 (1), 93 – 108, 2008.

J23. K.I. Tserpes, P. Papanikos, **G. Labeas** and Sp.G. Pantelakis
'Multi-scale modeling of tensile behavior of carbon nanotube-reinforced composites', in *Theoretical and Applied Fracture Mechanics*, 49 (1), pp. 51-60 2008.

J24. G. Moraitis and **G. Labeas**
'Residual Stress and Distortion Calculation of Laser Beam Welding for Aluminum Lap Joints', in *Journal of Materials Processing Technology*, 198 (1-3), pp. 260-269 2008.

J25. **G. Labeas**, V. Watiti and Ch. Katsiropoulos
'Thermo-Mechanical Simulation of Infrared Heating Diaphragm Forming Process for Thermoplastic Parts', in *Journal of Thermoplastic Composite Materials*, 21 (4), pp. 353-370, 2008.

J26. **G. Labeas**
'Development of a Local Three-Dimensional Numerical Simulation Model for the Laser Forming Process of Aluminium Components', in *Journal of Materials Processing Technology* 207 (1-3), pp. 248-257, 2008.

J27. G. Moraitis and **G. Labeas**
Prediction of residual stresses and distortions due to laser beam welding of butt joints in pressure vessels", '*International Journal of Pressure Vessels and Piping*' 86, pp. 133-142, 2009.

J28. Ch. Katsikeros and **G. Labeas**
'Development and Validation of a Strain based Structural Health Monitoring System', in Mechanical Systems and Signal Processing, 23 (2), pp. 372-383 2009.

J29. K.I. Tserpes, **G.N. Labeas**
'Mesomechanical analysis of Non-Crimp Fabric Composite Structural Parts', in Composite Structures 87 (4), pp. 358-369 2009.

J30. K. I. Tserpes and **G. N. Labeas**
'Progressive fracture analysis of planar lattices and shape-morphing Kagome-structure", in *Theoretical and Applied Fracture* Mechanics, Vol. 51, Issue 1, pp. 41-47, 2009.

J31. **G. Labeas**, J. Diamantakos
'Numerical investigation of through crack behaviour under welding residual stresses", in *Engineering Fracture Mechanics*, 76 (11), pp. 1691-1702 2009.

J32. Sp.G.Pantelakis, Ch.V.Katsiropoulos, **G.N.Labeas** and H.Sibois
'A concept to optimize quality and cost in thermoplastic composite components applied to the production of helicopter canopies', in COMP-part A Applied Science and Manufacturing 40 (5), pp. 595-606 2009.

J33. **G. N. Labeas**, Diamantakos, I., Kermanidis, Th.
Assessing the effect of residual stresses on the fatigue behavior of integrally stiffened structures, in *Theoretical and Applied Fracture Mechanics*, Vol. 51, Issue 2, pp. 95-101, 2009.

J34. Ch.V.Katsiropoulos, G.A.Moraitis, **G.N.Labeas** and Sp.G.Pantelakis

'Optimization of Laser Welding Process for Thermoplastic Composite Materials with regards to Quality and Cost, in *Plastics, Rubber and Composites*, Vol. 38, pp.153-161, 2009.

J35. **G. N. Labeas**, G.A. Moraitis and Ch. V. Katsiropoulos
Optimization of Laser Transmission Welding process for thermoplastic composite parts using thermo-mechanical simulation, '*Journal of Composite Materials',* 44 (1), p. 113-130, .2010.

J36. **Labeas, G.N.**, Sunaric, M.M.
'Investigation on the static response and failure process of metallic open lattice cellular structures' in Strain 46 (2), pp. 195-204, 2010.

J37. Llopart P., Ll., Tserpes, K.I., **Labeas, G.N.**
'Experimental and numerical investigation of the influence of imperfect bonding on the strength of NCF double-lap shear joints' in *Composite Structures* 92 (7), pp. 1673-1682, 2010.

J38. Tserpes, K.I., **Labeas, G.**, Pantelakis, S.
'Multi-scale modeling of the mechanical response of plain weave composites and cellular solids' in *Theoretical and Applied Fracture Mechanics* 54 (3) , pp. 172-179, 2010.

J39. Watiti, V.B., **Labeas, G.N.**
'Finite element optimization of deep drawing process forming parameters for magnesium alloys' in *International Journal of Material Forming* 3 (SUPPL. 1), pp. 97-100, 2010.

J40. Moraitis, G.A., **Labeas, G.N.**
'Investigation of friction stir welding process with emphasis on calculation of heat generated due to material stirring' in *Science and Technology of Welding and Joining* 15 (2), pp. 177-184, 2010.

J41. Belesis, S., **Labeas, G.**
'Development of an efficient engineering methodology for non-linear damage and post-buckling analysis of large-scale structures' in *International Journal of Structural Integrity* 1 (2), pp. 126-139, 2010.

J42. Mylonas, G.I., Heckenberger, U., **Lampeas, G.N.**
'Investigation on shot-peening induced residual stress field' in *International Journal of Microstructure and Materials Properties* 5 (4-5) , pp. 471-480, 2010.

J43. **Lampeas, G.**, Pasialis, V., Siebert, T., Feligiotti, M., Pipino, A.
'Validation of impact simulations of a car bonnet by full-field optical measurements' in *Applied Mechanics and Materials* 70, pp. 57-62, 2011.

J44. Feligiotti, M., Hack, E., **Lampeas, G.**, Wang, W., Mottershead, J., Burguete, R.
'Use of integrated simulation and experimentation to quantify impact damage' in *Applied Mechanics and Materials* 70, pp. 51-56, 2011.

J45. **Labeas, G.N.**, Belesis, S.D.
'Efficient analysis of large-scale structural problems with geometrical non-linearity' in *International Journal of Non-Linear Mechanics* 46 (10) , pp. 1283-1292, 2011.

J46. Tserpes, K.I., Ruzek, R., Mezihorak, R., **Labeas, G.N.**, Pantelakis, S.G.
'The structural integrity of a novel composite adhesively bonded flap-track beam' in *Composite Structures* 93 (8), pp. 2049-2059, 2011.

J47. Mylonas, G.I., **Labeas, G.**
'Numerical modelling of shot peening process and corresponding products: Residual stress, surface roughness and cold work prediction' in *Surface and Coatings Technology* 205 (19), pp. 4480-4494, 2011.

J48. Fribourg, G., Deschamps, A., Bréchet, Y., Mylonas, G., **Labeas, G.**, Heckenberger, U., Perez, M.
'Microstructure modifications induced by a laser surface treatment in an AA7449 aluminium alloy' in *Materials Science and Engineering* A 528 (6), pp. 2736-2747, 2011.

J49. Stamatelos, D.G., **Labeas, G.N**., Tserpes, K.I.
'Analytical calculation of local buckling and post-buckling behavior of isotropic and orthotropic stiffened panels' in *Thin-Walled Structures* 49 (3), pp. 422-430,2011.
http://top25.sciencedirect.com/subject/engineering/12/journal/thinwalled-structures/02638231/archive/31

J50. Stamatelos, D.G., **Labeas, G.N.**
'Investigation on a multispar composite wing' in Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering 226 (1) , pp. 88-96, 2012.

J51. **Labeas, G.N.**, Belesis, S.D., Diamantakos, I., Tserpes, K.I.
'Adaptative progressive damage modeling for large-scale composite structures' in *International Journal of Damage Mechanics,* 21 (3) , pp. 441-462, 2012.

J52. Ptochos, E., **Labeas, G.**
'Shear modulus determination of cuboid metallic open-lattice cellular structures by analytical, numerical and homogenisation methods' in *Strain,* 48 (5) , pp. 415-429, 2012.

J53. Katsikeros, C., Sbarufatti, C., **Lampeas, G.**, Diamantakos, I.
'SHM system based on ANN for aeronautical applications' in Key Engineering Materials 495, pp. 129-133, 2012.

J54. E. Ptochos, **G.N. Labeas**
"Elastic modulus and Poisson's ratio determination of micro-lattice cellular structures by analytical, numerical and homogenisation methods", Journal of Sandwich Structures and Materials, Volume 14, Issue 5, pp. 597-626, 2012.

J55. A.N. Chamos, **G.N. Labeas**, D. Setsika

"Tensile behavior and formability evaluation of titanium-40 material based on the forming limit diagram approach", Journal of Materials Engineering and Performance, Volume 22, Issue 8, p. 2253-2260, August ,2013.

J56. **G.N. Labeas**, E. Ptochos
"Investigation of sandwich structures with innovative cellular metallic cores under low velocity impact loading ", Plastics, Rubber & Composites,
Volume 42, Issue 5, pp. 194-202, June 2013. .

J57. **G.N. Labeas**, J. Diamantakos
"Laser beam welding residual stresses of cracked T-joints", Theoretical and Applied Fracture Mechanics, Volume 63-64, pp. 69-76, February 2013.

J58. V.B. Watiti, **G.N. Labeas**
"Analysis of the formability magnesium alloys using a new ductile fracture criterion", International Journal of Material Forming, Volume 6, Issue 1, , pp. 165-171, 2013.

J59. Wang, W., Wang, D., Mottershead, J.E., **Lampeas, G.**
Identification of composite delamination using the Krawtchouk moment descriptor, in *Key Engineering Materials* 569-570 , pp. 33-40, 2013.

J60. Assanelli, A.P., Ben-Haim, Y., Burguete, R.,Cafeo, J., Hack, E., **Lampeas, G.,** Lardeur, P., Lu, Z., Mottershead, J., Pierron, F., Prime, M., Siebert, T., Fu, S., Patterson, E.
Special issue on validation of computational solid mechanics models, Editorial in *Journal of Strain Analysis for Engineering Design* 48 (1) , pp. 3-4, 2013.

J61. **Lampeas, G.N.**, Pasialis, V.P.
A hybrid framework for nonlinear dynamic simulations including full-field optical measurements and image decomposition algorithms, Editorial in *Journal of Strain Analysis for Engineering Design,* 48 (1) , pp. 5-15, 2013.
One of the top five most downloaded papers in 2013

J62. G.I. Mylonas and **G.N. Labeas**
Mechanical Characterisation of Aluminium Alloy 7449-T7651 at High Strain Rates and Elevated Temperatures Using Split Hopkinson Bar Testing, Experimental Techniques 38 pp. 26–34,2014.

J63. Burguete, R.L., **Lampeas, G**., Mottershead, J.E., Patterson, E.A., Pipino, A., Siebert, T., & Wang, W., Analysis of displacement fields from a high speed impact using shape descriptors, J. Strain Analysis, 49(4): 212-223, doi: 10.1177/0309324713498074,2014.

J64. Ioannis Diamantakos, Nikolaos Perogamvros, George **Labeas**
'Efficient non-linear analysis methodology of large composite aircraft structures International Journal of Terraspace Science and Engineering 6(2), pp. 57-64, 2014.

J65. Pasialis, V.P., **Lampeas, G.N.**

'Shape descriptors and mapping methods for full-field comparison of experimental to simulation data', in Applied Mathematics and Computation, Volume 256, pp. 203-221, April 2015.

J66. **Lampeas, G.N.,** Pasialis, V.P., Lin, X. and Patterson, E.A.
'On the validation of solid mechanics models using optical measurements and data decomposition', Simulation Modelling Practice and Theory, volume 52, pp. 92-107, March 2015.

J67. G. Lampeas and I. Diamantakos
'Effects of non-conventional tools on the thermo-mechanical response of Friction Stir Welded materials', in Journal of Manufacturing Science and Engineering, Transactions of the ASME, Volume 137, Issue 5, 2015.

J68. **G. Labeas** and V. Ptochos
'Homogenization of Selective Laser Melting cellular material for impact performance simulation', in International Journal of Structural Integrity, 6 (4), pp. 439-450, 2015.

J69. **G. Lampeas** and K. Fotopoulos
'Interlaminar stresses calculation using a stacked-shell finite element modelling approach', in International Journal of Applied Mechanics, Volume 7, Issue 5, 2015.

J70. **G. Labeas** and S. Peppa
'Fatigue crack growth behaviour of Friction Stir welded Aluminium alloys', in Key Engineering Materials, Volume 665, 2016, pp. 89-92, 2016.

J71. Hack, E., **Lampeas, G.**
'Advances in Validation of Computational Mechanics Models', Editorial, Journal of Strain Analysis for Engineering Design, Volume 51, Issue 1, pp. 3-4, 2016.

J72. Hack, E., **Lampeas, G.**, Patterson, E.A.
'An evaluation of a protocol for the validation of computational solid mechanics models, Journal of Strain Analysis for Engineering Design, Volume 51, Issue 1, pp. 5-13, 2016.

J73. **Lampeas, G**., Fotopoulos, K., Perogamvros, N.
'Development and experimental validation of explicit dynamics simulation of composite structures using a stacked thick-shell methodology', Plastics, Rubber and Composites, Volume 45, Issue 2, pp. 58-67, 2016.

J74. Perogamvros, N.G., **Lampeas, G.N.**
'Investigation of composite filled hole coupons and lockbolt fastened joints under impact loading', Archive of Applied Mechanics, pp. 1-16, 2016.

J75. **Lampeas, G.,** Perogamvros, N.
'Analysis of composite bolted joints by a macro-modelling approach', International Journal of Structural Integrity, Volume 7, Issue 3, pp. 412-428, 2016.

J76. Nikolaos G Perogamvros and **George N Lampeas**
'Experimental and numerical investigation of AS4/8552 interlaminar shear strength under impact loading conditions', Journal of Composite Materials 50 (19), pp. 2669-2685, 2016.

J77. Perogamvros, N., Mitropoulos, T., **Lampeas, G.**
'Drop Tower Adaptation for Medium Strain Rate Tensile Testing, Exp Mech (2016) 56: 419. doi:10.1007/s11340-015-0112-3, 2016.

J78. **George Lampeas** and Konstantinos Fotopoulos
Simulation of Lamb Wave Propagation in Composite Structures Based on the Finite Element Stacked Shell Method', accepted for publication in Key Engineering Materials, 2016.

J79. N. Perogamvros, **G. Lampeas**
'Experimental investigation of composite lockbolt fastened joints under in-plane low velocity impact', accepted for publication in Composites Part A, Part A, 90, pp. 510–521 2016.

B. Publications in International Books and contribution to European Standards:

B1. Sp. Pantelakis and **G. Labeas**
'Constant and variable amplitude fatigue damage of laminated fibrous composites' invited contribution in *Failure Analysis of Industrial Composite Materials*, p. 247-298, McGraw-Hill, 1999

B2. Th. Kermanidis and **G. Labeas**
'Behaviour of composite structures under impact loading', invited contribution in *Failure Analysis of Industrial Composite Materials*, p. 363-400, McGraw-Hill, 1999

B3. **G. Labeas**
Prediction of damage propagation and failure of composite structures (without testing), in
'Virtual Testing and Predictive Modeling', B. Farahmand (ed.),
DOI 10.1007/978-0-387-95924-5 11
Springer Science and Business Media, LLC, 2009

B4. CEN 16799, Validation of computational solid mechanics models, Comité Europeen de Normalisation, Brussels, 2014.
http://standards.cen.eu/dyn/www/f?p=204:110:0::::FSP_PROJECT,FSP_ORG_ID:41727,1168897&cs=1F207BEDE5CA53F99E49185D7C5C7AFA1
E. Chatzi, R. J. Greene , E. Hack, Al. Ihle, H. Jones**, G. Lampeas**, J. Marrow, E.Patterson, A. Pipino, M. Price, P. Ramsay, O. Reichmann, T. Siebert, N. Tzelepi, R. Widmer
'Validation of computational solid mechanics models', CEN WORKSHOP AGREEMENT, CWA 16799, 2014.

B5. Erwin Hack , Eann Patterson , Richard Burguete, Andrea Davighi, Mara Feligiotti Alexander Ihle, **George Lampeas**, John Mottershead , Hans Reinhard Schubach, Thorsten Siebert , Weizhuo 'Victor' , Maurice Whelan 'Guidelines for the Calibration of Optical Systems for Cyclic Displacement Measurement'.

B6. Erwin Hack , Eann Patterson , Richard Burguete, Andrea Davighi, Mara Feligiotti Alexander Ihle, **George Lampeas**, John Mottershead , Hans Reinhard Schubach, Thorsten Siebert , Weizhuo 'Victor' , Maurice Whelan 'Guidelines for the Calibration of Optical Systems for Dynamic Deformation Measurement'.

C. Publications / presentations in peer-reviewd scientific International Conferences

C1. Sp. Pantelakis, **G. Labeas**, S. Kalogeropoulos and V. Schulze
'Hot-Forming of Continuous Carbon Fiber Reinforced PEEK', *Proc. of the third International Symposium COMP 90*, 19-24 Oct. Patras, Greece, 1990, Amatec Publication, pp. 393-399.

C2. S. Pantelakis, Th. Kermanidis, **G. Labeas** and V. Schulze
'Development of Aerospace Thermoplastic Composite Structural Components Using the Superplastic Forming Technique', *Proc. of the 5th European Conference on Composite Materials*, Bordeaux, France, 7-10 April, 1992, pp. 7-18.

C3. Th. Kermanidis and **G. Labeas**
'Static analysis of Elastic Layered Plates using the Transfer Matrix method', *Proc. of the 1st National Congress on Computational Mechanics,* 3-4 Sept. 1992, Athens, Greece, pp.132-139.

C4. Th. Kermanidis and **G. Labeas**
'Stability and Vibration Analysis of Composite Plates by the semi - analytical method', *Advances in Non-Linear Finite Element Methods*, Civil - Comp Press, 1994, pp. 273-278.

C5. **G. Labeas** and Th. Kermanidis
'Development of an annular anisotropic plate element using the Transfer Matrix Method', *Proc. of the 1st Hellenic Conference on Composite Materials*, Xanthi, 2-5 July 1997, pp. 495-507.

C6. Th. Kermanidis, **G. Labeas**, C. Apostolopoulos and L. Michielsen
'Numerical Simulation of Composite Structures under impact', *Proc. of Structures Under Shock and Impact*, pp. 591-600, Thessaloniki, 24-26 June 1998.

C7. Th. Kermanidis, **G. Labeas** , Sp. Pantelakis, D. Kohlgrueber and J. Wiggenraad
'Simulation of the Impact Response of Composite Aircraft Substructures', *Proc. of Experimental techniques and design of composite materials*, pp. 117-128, 2002.

C8. A. Michielsen, J. Wiggenraad, D. Kohlgrueber, L. Ubels, R. Frijns, **G. Labeas** and M. McCarthy, 'Design, Test and Analysis of Tensor Skin Panels for Improved Crashworthiness

in Case of Water Impact', *Proc. of Crash Safety Challenges and Innovative Solutions*, Phoenix, Arizona, Sept. 14-16, 1998.

C9. Th. Kermanidis, Sp. Pantelakis**, G. Labeas** and J. Diamantakos,
'Influence of corrosive environment on the fatigue life of an ageing aircraft structure', *Proc. of the 20th Symposium of the International Committee on Aeronautical Fatigue ICAF*, 14-16 July, 1999, Washinghton, USA.

C10. Th. Kermanidis, **G. Labeas**, K.I. Tserpes and Sp. Pantelakis
'Finite Element modelling of damage accumulation in bolted composite joints under incremental tensile loading', *Proc. of European Congress on Computational Methods in Applied Science and Engineering - ECCM* , Barcelona, 11-14 Sept. 2000.

C11 C. L. Goudas, G. A. Katsiaris, **G. Labeas**, G. Karahalios, and G. Pnevmatikos
'Soft protection using submerged groin arrangements, Dynamic analysis of System Stability and Review of Application Impacts', *Proc. of 1st 'Soft Shore protection Conference***,** pp. 227-260, Patras**,** Greece, 18- 22 October 2000.

C12. **G. Labeas**
'Crashworthiness of composite aircraft structures', *4th Congress on Computational Mechanics CRACM*, Patras, 27-29 June, 2002.

C13. Th. Kermandis, K. Tserpes, P. Papanikos, **G. Labeas**, Sp.G. Pantelakis
'Fatigue damage accumulation and residual strength assesement of composite laminates through progressive damage modeling", *Proc. of Mesomechanics 2003*, Tokyo, Japan, 26-28 Aug. 2003, pp. 167-174.

C14. Th. Kermanidis, **G. Labeas** and M. Sunaric,
'Material Damage Modeling and Techniques for Bird-Strike Impact Simulations on Composite Leading Edge', *Proc. of the International Conference on Influence of Traditional Mathematics and Mechanics on Modern Science and Technology*, 24-28 May, Messini, Greece, 2004, p.p 163-172.

C15. Th. Kermanidis, **G. Labeas** and G. Diamantakos,
'Investigation on the crack link-up criteria at multiple site damage conditions', In: G.C. Sih, Th.B. Kermanidis and Sp.G. Pantelakis (eds.) *Proceedings of 'Multiscaling in Applied Science and Emerging Technology'* Patras (2004) pp. 483-492.

C16. P. Papanikos, K. Tserpes and **G. Labeas**,
'Progressive damage modelling of bonded composite repairs', In: G.C. Sih, Th.B. Kermanidis and Sp.G. Pantelakis (eds.) *Proceedings of 'Multiscaling in Applied Science and Emerging Technology'* Patras (2004) pp. 452-458.

C17. **G. Labeas**, S. Tsirkas, Al. Kermanidis, Sp. Pantelakis
'Fatigue behaviour prediction of laser surface treated Aluminium plates through simulation of the laser stripping process', *Proc. of the 11th International Conference on Fracture*, 20-25 March, Turin, Italy, 2005.

C18. **G. Labeas**, S. Tsirkas, J. Diamantakos and Al. Kermanidis
"Effect of residual stresses due to laser welding on the Stress Intensity Factors of adjacent crack", *Proc. of 11th International Conference on Fracture*, ICF-11, 20-25 March 2005, Torino, Italy.

C19. Sp. G. Pantelakis, **G. Labeas**, Al. Th. Kermanidis and D.Stamatelos
'Numerical simulation of the tensile behaviour of corroded and hydrogen embrittled 2024 T351 aluminum alloy specimen', *Proc. of Materials for Safety and Health Mesoscopic and Multiscale Consideration in Modern Science and Engineering*, Montreal, Canada (2005) pp. 106-114.

C20. **G. Labeas** and Th. Kermanidis
'Investigation on the stress multiaxiality factor for crack growth prediction using the strain energy density theory', *Proc. of Materials for Safety and Health Mesoscopic and Multiscale Consideration in Modern Science and Engineering*, Montreal, Canada (2005) pp. 283-291.

C21 Th. Kermanidis and **G. Labeas**
'Simulation of High Velocity Impact on Composite Aircraft Leading Edge Structures', *Euro-Pam 2004 Conference*, Paris, 11-13 October 2004.

C22. Th. Kermanidis, **G. Labeas** and Sp.Pantelakis
'Simulation of Bird Strike on a Composite Leading Edge', *Proc. of the 'First European Conference for Aerospace Sciences EUCASS'*, July 4-7th, 2005, Moscow.

C23. **G. Labeas** and Th. Kermanidis
'Impact Behaviour Modelling of a Composite Leading Edge Structure', *Proc. of Fracture of Nano and Engineering Materials and Structures, 16th European Conference on Fracture,* July 3-7, 2006 Alexandroupolis, Greece, pp. 1259-1260.

C24. **G. Labeas** and J. Diamantakos
'An Integrated Methodology Assessing the Aging Behaviour of Aircraft Structures', *Proc. of Fracture of Nano and Engineering Materials and Structures, 16th European Conference on Fracture*, July 3-7, 2006 Alexandroupolis, Greece, pp. 1295-1296.

C25. P.V. Petroyiannis, **G. Labeas**, Sp.G. Pantelakis, H. Kamoutsi, V. Bontozoglou, G.N. Haidemenopoulos
'Numerical Investigation on the tensile behaviour of pre-corroded 2024 Aluminium Alloy', *Proc. of Fracture of Nano and Engineering Materials and Structures, 16th European Conference on Fracture*, July 3-7, 2006 Alexandroupolis, Greece, pp. 1297-1298.

C26. **G. Labeas**, J. Diamantakos and Al. Kermanidis
'Analysis of through cracks behaviour under residual stresses', *Proc. of the 8th Mesomechanics Conference: Multiscale Behavior of Materials and Structures: Analytical, Numerical and Experimental Simulation*, Porto, Portugal, July 19-22, p.407-417, 2006.

C27. Ch.V. Katsiropoulos, N. Tsirakis, **G.N. Labeas**, Sp.G. Pantelakis

'Optimization of 'cold' diaphragm forming process by means of an extensive cost analysis study', *Proc. of the 28th International Conference and Forums (SAMPE Europe)*, Paris, April 02-04, 2007.

C28. K.I. Tserpes, P. Papanikos, **G.N. Labeas**, Sp. G. Pantelakis
'Multi-Scale Modeling of Tensile Behavior of Carbon Nanotube-Reinforced Composites', *Proc. of the 9th Mesomechanics Conference: Particle & continuum aspects of mesomechanics: integrity thresholds for materials and structures*, p. 323-330, Giens, France, May 13-17, 2007.

C29. G. I. Mylonas, **G. N. Labeas**, Sp. G. Pantelakis
'High strain rate behaviour of Aluminium Alloys using Split Hopkinson Bar (SHB) testing', *Proc. of the International Conference on Experimental Mechanics*, pp. 161-162, Alexandroupolis, Greece, July 1-6, 2007.

C30. **G. N. Labeas**, M. Sunaric
'Failure behaviour investigation of metallic open lattice cellular structures', *Proc. of the International Conference on Experimental Mechanics*, pp. 775-776, Alexandroupolis, Greece, July 1-6, 2007.

C31. I. Diamantakos, **G. Labeas**, G. Moraitis
'Numerical Simulation of LBW Process and Damage Tolerance Analysis of Welded Structures', in *Proc. of the European Workshop of Short Distance Welding Concepts for Airframes*, GKSS Research Centre, Hanmurg, Gemany, June 13-15, 2007 .

C32. **G. Labeas**
'Crashworthiness of Composite Aircraft Structures', *in Proc. of 1st European Air and Space International Conference CEAS*, Berlin, Germany, September 10-13, 2007.

C33. Sp.G.Pantelakis, Ch.V.Katsiropoulos, **G.N.Labeas**
'A new software tool for optimizing composite processes with regard to quality and cost', *to be published in Proc. of the 2nd International Conference "Supply on the wings"*, Frankfurt/Main, Germany, October 24-25, 2007.

C34. **G. Labeas** and I. Diamantakos
'Calculation of stress intensity factors of cracked T-joints considering laser beam welding residual stresses', in Proc. of First International Conference on Damage Tolerance of Aircraft Structures, R. Benedictus, J. Schijve, R.C. Alderliesten, J.J. Homan (Eds.), TU Delft, The Netherlands, 24-28 Sept., 2007

C35. **G. Labeas**, I. Diamantakos and Th. Kermanidis
'Analysis of crack patterns under three-dimensional residual stress field', *in Proc. of 1st International Conference of Engineering Against Fracture*, Patras, Greece, 28-30 May 2008.

C36. **G. Labeas**, M. Sunaric and V. Ptochos

'Mechanical Properties and Failure Investigation of Metallic Open Lattice Cellular Structures', *in Proc. of 1st International Conference of Engineering Against Fracture*, Patras, Greece, 28-30 May 2008.

C37. **G. Labeas**, M. Sunaric and V. Ptochos
'Damage Analysis of Metallic Open-Lattice Cellular Cores Under Static and Dynamic Loading', in Proc. of *'9th Intl. Conf. Computational Structures Technology'*, Athens 2-5 September 2008 .

C38. G. I. Mylonas, U. Heckenberger, **G. N. Lampeas**
"Investigation on shot-peening induced residual stress field", in Proc. of *'International Conference on Distortion Engineering. (IDE)'*, Bremen, 2008.

C39. K. Tserpes and **G. Labeas**
'Numerical Analysis of a Flap Track Beam Made of Novel Non-Crimp Fabric Composites', in Proc. of Composites 2009-2nd ECCOMAS Thematic Conference 'Mechanical Response of Composites', Imperial College London, UK, April 1-3, 2009.

C40. **G. Labeas,** Al. Johnson, R. Mines and M. Klaus
'The Impact Performance of Sandwich Structures with Innovative Cellular Metal And Folded Composite Cores', in SAMPE Europe 30th International Conference and Forum, Paris, 23-25 March, 2009.

C41. Hack, E., **Lampeas, G**., Mottershead, J., Patterson, E., Siebert, T., Whelan, M.
Standards for validating stress analyses by integrating simulation and experimentation, in Society for Experimental Mechanics - SEM Annual Conference and Exposition on Experimental and Applied Mechanics 1, pp. 100-106, Indianapolis, 7-10 June 2010.

C42. Sp. Pantelakis, K.I. Tserpes, **G. Labeas**
A study on the mechanical behavior of textile composite and hybrid materials using multi-scale modeling and experiments, 12th International Congress on Mesomechanics (MESO 2010), Taipei, Taiwan, 21-25 June, 2010.

C43. Feligiotti, M., Hack, E., **Lampeas, G.**
Methodology for assessing impact damage using integrated simulation and experimentation, in ICEM14, Poitiers, 4-9 July, EPJ Web of Conferences 6, 46008, 2010.

C44. Hack, E., Burguete, R.L., Siebert, T., Davighi, A., Mottershead, J., **Lampeas, G.**, Ihle, A., Pipino, A., Patterson, E.A.
Validation of full-field techniques: discussion of experiences, ICEM14, Poitiers, 4-9 July, in F. Bremand (Ed.), EPJ Web of Conferences 6, 46004, 2010.

C45. **Lampeas, G**.; Siebert, Th.
Validation of non-linear dynamic simulations through full field optical methods, ICEM14, Poitiers, 4-9 July, France, in F. Bremand (Ed.), EPJ Web of Conferences 6, 2010.

C46. **G. Lampeas**, E. Hack, M. Feligiotti, T. Siebert, A. Pipino and A. Ihle
Assessment of impact damage in CFRP by combined thermal and speckle methods, in ICEM14, 4-9 July, France, 2010.

C47. Feligiotti, M., Hack, E., **Lampeas, G**., Siebert, Th., Pipino, A., Ihle, A. Assessment of impact damage in CFRP by combined thermal and speckle methods, Speckle 2010, Florianopolis, BR, 13-15 September, Proceedings of the SPIE, Volume 7387, pp. 73870H-73870H-8, 2010.

C48. Ch. Katsiropoulos, A. Hamos, K. Tserpes, and **G. Labeas**
Fracture toughness and shear behavior of composite bonded joints: the effect of thermal treatment, ageing and adhesive thickness, in proc. of 1st EASN Workshop on Aerostructures, Paris, 7-8.10.2010.

C49. **G. Lampeas**, Th. Siebert, V.Pasialis
Non-linear dynamic simulation and experimental validation of sandwich structures, in proc. of 1st EASN Workshop on Aerostructures, Paris, 7-8.10.2010.

C50. Β. Πτωχός, **Γ.Ν. Λαμπέας**
Ανάλυση Κυψελωτού Πυρήνα ανοιχτού τύπου, ΕΜΕ - 4ο Πανελλήνιο Συνέδριο Μεταλλικών Υλικών, Θεσσαλονίκη, 04-05.11.2010.

C51. Γ. Ι. Μυλωνάς, **Γ. Ν. Λαμπέας**
(in Greek) Αριθμητική και Αναλυτική προσέγγιση των παραμέτρων της κατεργασίας επιφανειών με βολή σωματιδίων, ΕΜΕ, 4ο Πανελλήνιο Συνέδριο Μεταλλικών Υλικών, 4-5.11.2010.

C52. Victor B. Watiti, **George N. Labeas**
(in Greek) Finite Element Optimization of Deep Drawing Procees forming parameters for magnesium alloys, 13th ESAFORM Conference, Brescia, 2010.

C53. E. Hack, E.A. Patterson, **G. Lampeas**, J. Mottershead, T. Siebert, and M. Whelan
Using full-field measurement techniques to validate simulations of dynamic events, in Proc. of Photomechanics Conference, Brussels, 7-9 Feb. 2011.

C54. Christos Katsikeros, Claudio Sbarufatti, George Lampeas, Ioannis Diamantakos
SHM System based on ANN for Aeronautical Applications, International Conference on Materials and Applications for Sensors and Transducers, Kos Island, Greece, May 13-17, 2011.

C55. Hack, E.; **Lampeas, G**.; Mottershead, J. E.; Patterson, E. A.; Siebert, Th.; Whelan, M. Progress in developing a standard for dynamic strain analysis, Proc. of the SEM Annual Conference and Exposition on Experimental and Applied Mechanics 2011, Connecticut USA June 13 - 16, pp. 425-429, 2011.

C56. **G. Labeas**, V. Ptochos

Investigation of sandwich structures with innovative cellular metallic cores impact performance, 2nd International Conference of Engineering Against Fracture (ICEAF II), Mykonos, GREECE, 22-24 June 2011.

C57. **G. Labeas**, V. Ptochos
Experimental and Numerical Analysis of Sandwich structures with composite skins and cellular core, 16th International Conference on Composite Structures, ICCS 16, Porto, 28-30.06.2011.

C58. **George Lampeas**, Vasilis Pasialis, Thorsten Siebert, Mara Feligiotti, Andrea Pipino
Validation of impact simulations of a car bonnet by full-field optical measurements, ISEV, Edinburgh, UK, 7-9 September 2011.

C59. G. Mylonas, **G. Labeas**
A comprehensive stream analysis and a numerical simulation of shot peening for the prediction of corresponding products, 11th International Conference on Shot Peening, South Bend, Indiana, USA, 12-15.09.2011.

C60. **Lampeas G**.
Validation of non-linear dynamic simulations through full field optical methods, The International Workshop on Validation of Computational Solid Mechanics Models, Shanghai Jiao Tong University, Shanghai, China, 18 – 20 October 2011.

C61. **G.N. Labeas**, N. G. Perogamvros
Macro-modeling of Composite Material Bolted Joints, ICCES'12 Crete, Greece
April 30 - May 4, 2012.

C62. **Labeas G**., Pasialis, V.
On the use of optical methods in the validation of non-linear simulations of sandwich structures14th International Congress on Mesomechanics, Budapest, Hungary, Sept.25-28, 2012.

C63. **G.N. Labeas**, T. Kermanidis, S.G. Pantelakis
Forming limit prediction of parts formed by Asymmetric Incremental Sheet Forming, 3rd International Conference of Engineering Against Failure (ICEAF III), Kos, Greece, 26- 28 June 2013.

C64. **G.N. Labeas**, C. Katsikeros
Strain based delamination identification of composite panels, 3rd International Conference of Engineering Against Failure (ICEAF III), Kos, Greece, 26- 28 June 2013.

C65. **G.N. Labeas**
Strain in Validation of Solid Mechanics Simulations, plenary paper in 3rd International Conference of Engineering Against Failure (ICEAF III), Kos, Greece, 26- 28 June 2013.

C66. **George Labeas**, Christos Katsikeros
Damage identification in composite structures using full-field strain data, 5th Eucass - European Conference for Aerospace Sciences - Munich, Germany, 1-4 July 2013

C67. Weizhuo Wang, Dezhi Wang, John Mottershead, **George Lampeas**
Identification of composite delamination using the Krawtchouk moment descriptor, 10th International Conference on Damage Assessment of Structures (DAMAS 2013), Trinity College Dublin Ireland, 08-10 July, 2013.

C68. **G. Lampeas**
Validation of computational solid mechanics models; an Inter-Laboratory Study, in BSSM 2013, 9th International Conference on Advances in Experimental Mechanics, University of Cardiff, England, 3-5 September 2013.

C69. **G.N. Labeas**
'Thermal-mechanical simulation of friction stir welding using non-conventional tools', Volos, EME- 5th Panhellenic Conference of Metallic Materials, 20-22.11.2013.

C70. Ioannis Diamantakos, Nikolaos Perogamvros and **George Labeas**
'Efficient non-linear analysis methodology of large composite structures', in 2nd International Conf. on Airworthiness & Fatigue - 8th ICSAELS Series Conf. 14-18 July, 2014 Patras, Greece.

C71. **G. Labeas** and V. Ptochos
'Simulation and material properties of Selective Laser Melting cellular parts ', in 2nd International Conf. on Airworthiness & Fatigue - 8th ICSAELS Series Conf. 14-18 July, 2014 Patras, Greece.

C72. **G. Lampeas**
'Simulation and material properties of Selective Laser Melting cellular parts', in Materials Science and Technology of Additive Manufacturing, Bremen, 27-28 May 2014 (invited lecture).

C73. **George Lampeas** and V. Pasialis
'Computational model validation of structural components by full-field optical measurements', in 11th World Congress on Computational Mechanics (WCCM XI), Barcelona 20-25 July 2014.

C74. Nikolaos Perogamvros, Thorsten Siebert and **G. Lampeas**
'Validation of composite joint coupon models using full-field optical measurement techniques', in 11th World Congress on Computational Mechanics (WCCM XI), Barcelona 20-25 July 2014.

C75. Nikolaos G. Perogamvros and **George N. Lampeas**
'Experimental and Numerical Investigation of AS4/8552 Interlaminar Shear Strength Under Impact Loading Conditions', in 4th International Conference of Engineering Against Failure (ICEAF IV) 24-26 June 2015, Skiathos, Greece.

C76. K. Fotopoulos and **G. Lampeas**
'Interlaminar Stresses Calculation of Composite structures under Impact Loading by Stacked Solid-Shell Finite Element Modelling', in in 4th International Conference of Engineering Against Failure (ICEAF IV) 24-26 June 2015, Skiathos, Greece.

C77. **G. Lampeas** and S. Peppa
'Fatigue Crack Growth Behaviour of Friction Stir Welded Aluminium Alloys', in 14th Int. Conf. on Fracture and Damage Mechanics, Budva Montenegro, 21-23rd Sept. 2015.

C78. K. Fotopoulos and **G. Lampeas**
Experimental validation of composite structures in explicit impact analysis, in ECCOMAS Congress 2016, VII European Congress on Computational Methods in Applied Sciences and Engineering, M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris (eds.), Crete Island, Greece, 5–10 June 2016.

C79. N. Perogamvros and **G. Lampeas**
Development and validation of a composite fastened joint model using advanced measurement techniques, in ECCOMAS Congress 2016, VII European Congress on Computational Methods in Applied Sciences and Engineering, M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris (eds.), Crete Island, Greece, 5–10 June 2016.

D. Presentations and publications in scientific European and international conference and workshops proceedings without peer-review of the publication

D1. Th. Kermanidis, **G. Labeas**, J. Lentzos and J. Diamantakos
''Efficient computation of Stress Intensity factors under Multiple Site Damage Conditions using Finite Element Substructuring Techniques'', *Proc. of Conference on 'Structural Maintainance of Ageing Aircraft'*, at NLR, Amsterdaam, 15-17 October 1997

D2. Th. Kermanidis, **G. Labeas** and J. Diamantakos
''Corner Crack growth simulation using through crack equivalence and Finite Element submodeling techniques'', *Proc. of Conference on 'Structural Maintainance of Ageing Aircraft'*, at NLR, Amsterdaam, 15-17 October 1997

D3. Th. Kermanidis and **G. Labeas**
''Simulation of High Velocity Impact on Composite Aircraft Leading Edge Structures'', *Euro-Pam 2004 Conference*, Paris, 11-13 October 2004

D4. European project 'IARCAS' presentation in 'Aeronautics days', Vienna, 2006

D5. Bob Mines, Sozos Tsopanos, Kuniharu Ushijima, Jaroslav Juracka, Martin Plhal, Jan Splíchal, **George Labeas**, Evangelos Ptochos
Modelling and design of cellular metal structures: microscale core models, impact analysis and improved core design, CELPACT Final Workshop, Sept. 11, 2009

D6. **George Lampeas**

Damage Tolerant Behaviour of Friction Stir Welded Joints in Modern Aircraft Aluminium Alloys, COINS Final Workshop GKSS, Hamburg, 09-10.12.2009.

D7. **G. Labeas**, I. Diamantakos
Numerical simulation of the Laser Beam Forming process of stiffened aluminium panels, 6th Philonet CAE Conference, Athens, 23.05.2013.

D8. Invited for panel discussion participation and chair of the 'Knowledge Exchange Workshop', CEN, London, Brithish Museum, , Nov. 5, 2013

D9. Co-chairman of the European Workshop ' VALIDATION OF COMPUTATIONAL MECHANICS MODELS' , New Town Hall, Munich 12th JUNE, 2014

D10. IMechE Vision Awards Ceremony, in the Institution of Mechanical Engineers, London, 2014, as **George Lampeas** and Vasilis Pasialis won the 2013 George Stephenson Gold Medal for their paper 'A hybrid framework for nonlinear dynamic simulations including full-field optical measurements and image decomposition algorithms'.

D11. G. Lampeas
'Modelling, simulation and design', in LEIT Modelling Policy Meeting, Brussels 27 February 2014

D12. R. Loendersloot, I. Büthe, P. Michaelides, M. Moix-Bonet, G. Lampeas
'Damage Identification in Composite Panels –Methodologies and Visualisation', in SARISTU Workshop, 19th – 21st of May 2015, Moscow, Russia

8.4. Selected list of research project reports of European projects

R1. Th. Kermanidis, Sp. Pantelakis, J. Lentzos, **G. Labeas**:
'Civil Aircraft Protection Against Ice – CAPRI', 24-month report, University of Patras, Feb. 1992.

R2. Th. Kermanidis, **G. Labeas**
'Stress and Stability Analysis of Thin Plates of Fiber Reinforced Composite Material', University of Patras, Final Report of Bilateral Project of Univ. Patras and RWTH Aachen – Germany, 1994.

R3. Th. Kermanidis, **G. Labeas**
'Studies of Occupant and Local Structure - Crashworthiness for commercial aircraft – CRASH', 36-month report, University of Patras, Dec. 1995.

R4. Th. Kermanidis, Sp. Pantelakis, **G. Labeas**
'Cost Estimation Relationships (CERs) for SPF – Rubber Pad Forming techniques - Process Integrated Cost Analysis Tool – PICANT', ISTRAM report, Mar. 1995.

R5. Th. Kermanidis, J. Diamantakos, **G. Labeas**
Subtask 2.2 – 'Crack Growth Problem', Structural Maintenance of Aging Aircraft SMAAC-TR-2.2-01-1.3/ISTRAM, Oct. 1998.

R6. Th. Kermanidis, Sp. Pantelakis, **G. Labeas**
Subtask 4.2 – 'Deteriorating effects – models & experiments', Structural Maintenance of Aging Aircraft SMAAC-TR-4.2-03-1.3/ISTRAM, Sep. 1997.

R7. Th. Kermanidis, **G. Labeas**
Subtask 6.1- 'Engineering tools for the assessment of WFD – Models', Structural Maintenance of Aging Aircraft SMAAC-TR-6.1-09-1.3 / HAI, Dec. 1998.

R8. Th. Kermanidis, **G. Labeas**
Subtask 3.2, 'Verification and calibration of composite material models - Analysis of joints', Design for Crash Survivability – CRASURV, University of Patras, Sep. 1997.

R9. Michielsen, A.L.P.J., J.F.M. Wiggenraad, D. Kohlgrueber, **G. Labeas**, and M.A. McCarthy, 1998, Design, Test and Analysis of Tensor Skin Panels for Improved Crashworthiness in Case of Water Impact, Netherlands' National Aerospace Laboratory Report, NLR-TP-98356.

R10. Th. Kermanidis, **G. Labeas**
'Design for Crash Survivability – CRASURV', 36-month report, University of Patras, Nov. 1998.

R11. Th. Kermanidis, **G. Labeas**
Subtask 1.2: 'Development of methods - Local methods', Efficient Design And Verification of Composite Structures EDAVCOS report, Mar.1998.

R12. **G. Labeas** and M. Sunaric
Numerical simulation of EIDI system, Patras, POA project report**,** December 2004.

R13 **G. Labeas**, Ch. Katsiropoulos and V. Watiti
Deliverable D24: Assessment of IR heating technique for new diaphragm process (WP2), DINAMIT project report , February 2006.

R14. S. Tsirkas, A. Kermanidis and **G. Labeas**
24 Month Activity Report, Damage tolerance analysis and prediction, Corrosion and protection , Aging, Recommendations for damage tolerance, WELAIR project report, May 2006

R15. **G. Labeas**
Description of models and software developed for fatigue crack initiation and damage tolerance analyses of integrally stiffened panels, Residual stress computation code results, DaToN – SDD - WP 2.1 – 1.1 / U-Patras, April 2006.

R16. **G. Labeas** and S. Belesis
Large Modelling Capabilities, Methodologies for large scale non-linear analysis, MUSCA project report, July 2006.

R17. **G. Labeas**
Development and Validation of a Strain based Structural Health Monitoring System, TATEM Integrated Project report, September 2006.

R18. **G. Labeas** and M. Sunaric
Evaluation of the Vibratory Stress Relieving (VSR) technique, COMPACT project report, September 2006.

R19. **G. Labeas** and M. Sunaric
Finite element modeling of the influence of machining processes on residual stress, COMPACT project report, September 2006.

R20. **G. Labeas**
Task 4.1: 3D simulation of the local behaviour of the component, ECOSHAPE project report, October 2006.

R21. **G. Labeas** and I. Diamantakos
Task 3.1, Description of damage tolerance analysis and prediction techniques for welded run-outs, WELAIR project report, December 2006.

R22. S. Morgan, G. Moore, M. Rodgers, **G. Labeas** & G. Moraitis
COst effective INtegral metallic Structure - COINS, Deliverable D7: Process modelling and data for FSW (2010).

R23. Cl. Sbarufatti, I. Diamantakos and **G. Lampeas**
Deliverable D3.2 – Report on sensitivity analysis of FE fuselage model, HElicopter fuselage Crack MoniToring and prognosis through on-board sensOR network - HECTOR, EDA A-0930-RT-GC, 2011

R24. C. Avril, **G. Lampeas** & I. Diamantakos

Deliverable D4 – Sensor evaluation, Sensors for Structural Monitoring - SESAMO, EDA Contract N° A-0931-RT-GC, 2012.

R25. Diamantakos, **G. Lampeas**
D3.11.5 - Development and implementation of fast but accurate technique combining geometrical and composite material non-linearity, MORE AFFORDABLE AIRCRAFT THROUGH EXTENDED, INTEGRATED AND MATURE NUMERICAL SIZING - MAAXIMUS-FP7-213371, 2013.

R26. **George Lampeas**, Victor B. Watiti
Deliverable D5: Numerical modelling Titanium at large scale, Innovative Manufacturing of complex Ti sheet components, Innovative Manufacturing of complex Ti sheet components - INMA, FP7-Project No. 266208, 2013.

R27. Diamantakos, **G. Lampeas**
D6.1.15 - Progressive damage evolution model validation by comparison to experimental results, MORE AFFORDABLE AIRCRAFT THROUGH EXTENDED, INTEGRATED AND MATURE NUMERICAL SIZING - MAAXIMUS-FP7-213371, 2014.

R28. **George Lampeas**, Ioannis Diamantakos, Deliverable D6 Numerical modelling of hot AISF of titanium, Innovative Manufacturing of complex Ti sheet components - INMA, FP7-Project No. 266208, 2014,

R29. **G.Lampeas**, N. Perogamvros
Deliverable 3.7: WP3 Summary and comparison of all model results for Dassault test case, Smart Aircraft in Emergency Situations (SMAES), 2014.

R30. **G.Lampeas**, N. Perogamvros
Deliverable 4.10: Data on T4.2 material characterization tests and material model information, Smart Aircraft in Emergency Situations (SMAES), 2014.