

ISTRUZIONE E FORMAZIONE

28/04/2010 - L'Aquila, Italia

LAUREA TRIENNALE IN INGEGNERIA MECCANICA DM 509/1999 – Università degli Studi dell'Aquila -Facoltà di Ingegneria-, L'Aquila (Italia)

Relatore: Chiar.ma Prof.ssa Domenica Paoletti

Correlatore: Chiar.mo Prof. Alfonso Paoletti

Tesi: Titolo della tesi: "Un approccio sperimentale per la caratterizzazione non distruttiva di grandi superfici di materiali compositi in aeronautica".

23/10/2014 - Roma

LAUREA MAGISTRALE IN INGEGNERIA AERONAUTICA LM-20 – Università degli Studi Roma Tre - Facoltà di Ingegneria-, Roma (Italia)

Relatore: Chiar.mo Prof. Massimo Gennaretti

Correlatore: Chiar.mo Prof. Giovanni Bernardini

Tesi: "Analisi di una formulazione aerodinamica nel dominio della frequenza per lo studio aeroelastico di rotori di elicottero".

28/10/2014 - 17/05/2018 - L'Aquila

DOTTORATO DI RICERCA IN INGEGNERIA INDUSTRIALE – Università degli Studi dell'Aquila, L'Aquila (Italia)

ING-IND10 - Fisica Tecnica Industriale

ING-IND11 - Fisica Tecnica Ambientale

Relatore e Tutor: Chiar.mo Prof. Dario Ambrosini

Tesi: Titolo della tesi: UNA PROPOSTA INNOVATIVA PER LO STUDIO TERMOFLUIDODINAMICO IN SITU E SVILUPPO DI PANNELLI ISOLANTI MULTISTRATO: UN APPROCCIO INTEGRATO NUMERICO E SPERIMENTALE

01/07/2015 - Validità fino al 30/06/2025- Roma, Italia

ADDETTO ALLE PROVE NON DISTRUTTIVE TERMOGRAFICHE AL LIVELLO 2 – KIWA CERMET ITALIA

Qualifica rilasciata in conformità al regolamento "KIWA CERMET ITALIA PG_PRS_Qualificazione e certificazione del personale tecnico addetto alle prove non distruttive"

- Livello 2- per termografia ad infrarossi;

Patentino n° 01214

N° Certificato: PnD-CIV -077

14/04/2016 - 15/04/2016

CORSO DI SIMULAZIONE NUMERICA. – Altair HyperWorks



19/10/2016 - 26/10/2016

RELATORE – Ettore Majorana Foundation Erice Sicily

INTERNATIONAL SCHOOL OF QUANTUM ELECTRONICS 60nd Course, FOURTH MEDITERRANEAN
INTERNATIONAL WORKSHOP ON PHOTOACOUSTIC & PHOTOTHERMAL PHENOMENA

Superamento dell'esame presso la scuola.

13/04/2017 - 19/04/2017 - Tomsk, Russia

INVITED RESEARCHER – Tomsk Polytechnic

THEORETICAL AND PRACTICAL CONSIDERATIONS ON THE USE OF NON-DESTRUCTIVE TESTING (NDT)
TECHNIQUES FOR THE INSPECTION OF COMPOSITE MATERIALS

30/06/2018 - 29/06/2019

ASSEGNISTA DI RICERCA – Università degli Studi dell'Aquila, L'Aquila (Italia)

Tema di ricerca: Studio tecnologie di additive manufacturing per la produzione di componenti non convenzionali che integrano funzioni elettroniche, per il settore aerospaziale.

Responsabile scientifico: Chiar.mo Prof. Ing. Paolo Di Stefano

30/06/2019 - 10/05/2020 - L'aquila, Italia

ASSEGNISTA DI RICERCA – Università degli Studi dell'Aquila, L'Aquila (Italia)

Tema di ricerca: Studio tecnologie di additive manufacturing per la produzione di componenti non convenzionali che integrano funzioni elettroniche, per il settore aerospaziale.

Responsabile scientifico: Chiar.mo Prof. Ing. Paolo Di Stefano

28/09/2020 - 09/10/2020 - Austria

RELATORE – Danube University Krems

STRECH Joint ENVIMAT and Cultural Property Protection Summer School 2020

TOOLS AND STRATEGIES FOR STRENGTHENING RESILIENCE OF CULTURAL HERITAGE IN CLIMATE CHANGE

10/07/2020

PERCORSO FORMATIVO 24 CFU per l'insegnamento– E-CAMPUS

Esami svolti:

M-DEA/01 Antropologia culturale, 6 CFU

M-PED/03 Metodologie e tecnologie didattiche, 6CFU

M-PED/01 Pedagogia generale e sociale, 6 CFU

M-PSI/04 Psicologia dell'educazione, 6 CFU

25/05/2022 - 31/05/2023

ASSEGNISTA DI RICERCA – Università degli Studi La Sapienza, Roma (Italia)

Tema di ricerca: Studio, caratterizzazione, lo sviluppo, il testing, la sperimentazione e la validazione di un sensore estensimetrico realizzato mediante tecnica additiva (Aerosol Jet Printing) per serbatoi di idrogeno.

Responsabili scientifici: Chiar.mo Prof. Ing. Elio Di Claudio, Chiar.mo Prof. Ing. Massimo Panella

01/07/2023 - 30/06/2025

ASSEGNISTA DI RICERCA – Università degli Studi La Sapienza, Roma (Italia)

Tema di ricerca: Studio, caratterizzazione, sviluppo, testing, sperimentazione e validazione di un sensore (estensimetro) realizzato mediante tecnica additiva (Aerosol Jet Printing) al fine di ottenere un sistema di monitoraggio integrabile in serbatoi di idrogeno.

Responsabile scientifico: Chiar.mo Prof. Ing. Massimo Panella



● ESPERIENZA LAVORATIVA

07/05/2018 - 07/06/2018 - L'Aquila, Italia

DOCENTE PRESSO ISTITUTO TECNICO INDUSTRIALE STATALE A DI SAVOIA L'AQUILA

LAB. SCIENZE E TECNOLOGIE MECCANICHE - CL. DI CONCORSO B017

L'Aquila, Italia

DOCENZA INFORMATICA DI BASE, ACCADEMIA DELLE BELLE ARTI DELL'AQUILA

Docente titolare del corso di Informatica di Base Accademia delle Belle Arti dell'Aquila
A.A 2018-2019

21/06/2021 - 30/06/2021 - L'Aquila, Italia

DOCENTE PRESSO ISTITUTO TECNICO INDUSTRIALE STATALE A DI SAVOIA L'AQUILA

TECNOLOGIE MECCANICHE DI PROCESSO E PRODOTTO - CL DI CONCORSO A042

Corsi di recupero estivi e titolarità del corso annuale

● COMPETENZE LINGUISTICHE

Lingua madre: **ITALIANO**

Altre lingue: **INGLESE**

● COMPETENZE DIGITALI

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc..) | Gestione autonoma della posta e-mail |
COMSOL Multiphysics | Conoscenza accademica di Matlab | buona padronanza prodotti Autodesk
(AutoCAD, 3D Studio Max)

● PUBBLICAZIONI su SCOPUS: H-Index 17, Documents by author 34, Citations 676

Development of a Wearable Electromyographic Sensor with Aerosol Jet Printing Technology

Perilli, S., Di Pietro, M., Mantini, E., Regazzetti, M., Kiper, P., Galliani, F., Panella, M., Mantini, D.

Development of a Wearable Electromyographic Sensor with Aerosol Jet Printing Technology

(2024) Bioengineering

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213247127&doi=10.3390%2fbioengineering11121283&partnerID=40&md5=6933ded0b4d24f8efcf698efc8752b22)

[85213247127&doi=10.3390%2fbioengineering11121283&partnerID=40&md5=6933ded0b4d24f8efcf698efc8752b22](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213247127&doi=10.3390%2fbioengineering11121283&partnerID=40&md5=6933ded0b4d24f8efcf698efc8752b22)

Detection of the surface coating of photovoltaic panels using drone-acquired thermal image sequences

Kim, C., Perilli, S., Sfarra, S., Kim, E.-J.

Detection of the surface coating of photovoltaic panels using drone-acquired thermal image sequences

(2024) Journal of Thermal Analysis and Calorimetry

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184425396&doi=10.1007%2fs10973-024-12902-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184425396&doi=10.1007%2fs10973-024-12902-5&partnerID=40&md5=508d5bde533a52c6935d5bc296fba544)
[5&partnerID=40&md5=508d5bde533a52c6935d5bc296fba544](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184425396&doi=10.1007%2fs10973-024-12902-5&partnerID=40&md5=508d5bde533a52c6935d5bc296fba544)

Exploring the potentialities of thermal asymmetries in composite wind turbine blade structures via numerical and thermographic methods: a thermophysical perspective

Figueiredo, A.A.A. and D'Alessandro, G. and Perilli, S., Sfarra, S. and Fernandes, H.

Exploring the potentialities of thermal asymmetries in composite wind turbine blade structures via numerical and thermographic methods: a thermophysical perspective

(2024) Journal of Thermal Analysis and Calorimetry

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204006403&doi=10.1007%2fs10973-024-13584-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204006403&doi=10.1007%2fs10973-024-13584-9&partnerID=40&md5=9d92750d5bc61759a44ccff8aa38dca4)
[9&partnerID=40&md5=9d92750d5bc61759a44ccff8aa38dca4](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85204006403&doi=10.1007%2fs10973-024-13584-9&partnerID=40&md5=9d92750d5bc61759a44ccff8aa38dca4)



Maximizing the detection of thermal imprints in civil engineering composites via numerical and thermographic results pre-processed by a groundbreaking mathematical approach

Sfarra, S., Cicone, S., Yousefi, B., Perilli, S., Robol, L., Maldague, Xavier P.V.,
23006024400; 35104527900; 25032139600; 57216680663; 55748770500; 7003528304

Maximizing the detection of thermal imprints in civil engineering composites via numerical and thermographic results pre-processed by a groundbreaking mathematical approach

(2022) International Journal of Thermal Sciences,

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126359091&doi=10.1016%2fj.ijthermalsci.2022.107553&partnerID=40&md5=348376e2fe0b14365863b3af4716b454)

[85126359091&doi=10.1016%2fj.ijthermalsci.2022.107553&partnerID=40&md5=348376e2fe0b14365863b3af4716b454](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85126359091&doi=10.1016%2fj.ijthermalsci.2022.107553&partnerID=40&md5=348376e2fe0b14365863b3af4716b454)

Advanced insulation materials for facades: Analyzing detachments using numerical simulations and infrared thermography

Perilli, S., Palumbo, D., Sfarra, S., Galietti, U.

57216680663; 55993952400; 23006024400; 55994140800;

Advanced insulation materials for facades: Analyzing detachments using numerical simulations and infrared thermography

(2021) Energies,

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85119371736&doi=10.3390%2fen14227546&partnerID=40&md5=ef08dfeac89a7e52228c93fbcac0e15b)

[85119371736&doi=10.3390%2fen14227546&partnerID=40&md5=ef08dfeac89a7e52228c93fbcac0e15b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85119371736&doi=10.3390%2fen14227546&partnerID=40&md5=ef08dfeac89a7e52228c93fbcac0e15b)

Defining the thermal features of sub-surface reinforcing fibres in non-polluting thermo-acoustic insulating panels: A numerical-thermographic-segmentation approach

Liu, K., Perilli, S., Chulkov, A.O., Yao, Y., Omar, M., Vavilov, V., Liu, Y., Sfarra, S.

57205419247; 57216680663; 55322274800; 35244017600; 23101060500; 7103104556; 55129763900;
23006024400;

Defining the thermal features of sub-surface reinforcing fibres in non-polluting thermo-acoustic insulating panels: A numerical-thermographic-segmentation approach

(2021) Infrastructures,

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115183737&doi=10.3390%2finfrastructures6090131&partnerID=40&md5=2b0a491cec0aee74e799fae9aa8a67de)

[s2.0-85115183737&doi=10.3390%2finfrastructures6090131&partnerID=40&md5=2b0a491cec0aee74e799fae9aa8a67de](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115183737&doi=10.3390%2finfrastructures6090131&partnerID=40&md5=2b0a491cec0aee74e799fae9aa8a67de)

Multi-excitation infrared fusion for impact evaluation of aluminium-bfrp/gfrp hybrid composites

Hu, J., Zhang, H., Sfarra, S., Perilli, S., Sergi, C., Sarasini, F., Maldague, X.

57203357942; 56717788300; 23006024400; 57216680663; 57200520672; 8723985300; 7003528304;

Multi-excitation infrared fusion for impact evaluation of aluminium-bfrp/gfrp hybrid composites

(2021) Sensors,

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114200784&doi=10.3390%2fs21175961&partnerID=40&md5=bbfa20869f3780d1dc40d8b4094a54c9)

[s2.0-85114200784&doi=10.3390%2fs21175961&partnerID=40&md5=bbfa20869f3780d1dc40d8b4094a54c9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114200784&doi=10.3390%2fs21175961&partnerID=40&md5=bbfa20869f3780d1dc40d8b4094a54c9)

Evaluating the freeze-thaw phenomenon in sandwich-structured composites via numerical simulations and infrared thermography

Sfarra, S., Tejedor, B., Perilli, S., Almeida, R.M.S.F., Barreira, E.

23006024400; 57193788227; 57216680663; 36813567400; 14059572400;

Evaluating the freeze-thaw phenomenon in sandwich-structured composites via numerical simulations and infrared thermography

(2020) Journal of Thermal Analysis and Calorimetry, .

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087767772&doi=10.1007%2fs10973-020-09985-1&partnerID=40&md5=f7e37f0de89d511fbd333cb660a8871a)

[s2.0-85087767772&doi=10.1007%2fs10973-020-09985-1&partnerID=40&md5=f7e37f0de89d511fbd333cb660a8871a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087767772&doi=10.1007%2fs10973-020-09985-1&partnerID=40&md5=f7e37f0de89d511fbd333cb660a8871a)

Evaluation of the heat changes in an ancient church because of restoration works: A microclimatic study supported by thermal images

Ridolfi, S., Crescenzi, S., Zeli, F., Perilli, S., Sfarra, S.

7801640160; 57222055957; 57222074652; 57216680663; 23006024400

Evaluation of the heat changes in an ancient church because of restoration works: A microclimatic



study supported by thermal images

(2021) Indoor and Built Environment,

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101233807&doi=10.1177%2f1420326X21994625&partnerID=40&md5=38f634556b3d3dfd3a10fd7f05513677)

[s2.0-85101233807&doi=10.1177%2f1420326X21994625&partnerID=40&md5=38f634556b3d3dfd3a10fd7f05513677](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101233807&doi=10.1177%2f1420326X21994625&partnerID=40&md5=38f634556b3d3dfd3a10fd7f05513677)

Enhanced infrared sparse pattern extraction and usage for impact evaluation of basalt-carbon hybrid composites by pulsed thermography

Hu, J., Zhang, H., Sfarra, S., Sergi, C., Perilli, S., Ibarra-Castaneda, C., Tian, G., Maldague, X.

57203357942; 56717788300; 23006024400; 57200520672; 57216680663; 7801363783; 7202950628; 7003528304;

Enhanced infrared sparse pattern extraction and usage for impact evaluation of basalt-carbon hybrid composites by pulsed thermography

(2020) Sensors (Switzerland),

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097809221&doi=10.3390%2fs20247159&partnerID=40&md5=9047d0fdda5f1ecd68e4ef76655273d8)

[s2.0-85097809221&doi=10.3390%2fs20247159&partnerID=40&md5=9047d0fdda5f1ecd68e4ef76655273d8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097809221&doi=10.3390%2fs20247159&partnerID=40&md5=9047d0fdda5f1ecd68e4ef76655273d8)

Measuring the water content in wood using step-heating thermography and speckle patterns-preliminary results

Madruga, F.J., Sfarra, S., Perilli, S., Pivarčiová, E., López-Higuera, J.M.

6602984414; 23006024400; 7003606184; 57216680663; 55768942400;

Measuring the water content in wood using step-heating thermography and speckle patterns-preliminary results

(2020) Sensors (Switzerland), 20 (1), art. no. 316,

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077878606&doi=10.3390%2fs20010316&partnerID=40&md5=f3f393d0c0d544a2558a865135630df9)

[s2.0-85077878606&doi=10.3390%2fs20010316&partnerID=40&md5=f3f393d0c0d544a2558a865135630df9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077878606&doi=10.3390%2fs20010316&partnerID=40&md5=f3f393d0c0d544a2558a865135630df9)

On the use of phase change materials applied on cork-coconut-cork panels: A thermophysical point of view concerning the beneficial effect in terms of insulation properties

Sfarra, S., Perilli, S., Guerrini, M., Bisegna, F., Chen, T., Ambrosini, D.

23006024400; 57216680663; 57198358465; 6506367821; 57195673869; 56217287400;

On the use of phase change materials applied on cork-coconut-cork panels: A thermophysical point of view concerning the beneficial effect in terms of insulation properties

(2019) Journal of Thermal Analysis and Calorimetry, 138 (6), pp. 4061-4090.

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066150994&doi=10.1007%2fs10973-019-08350-1&partnerID=40&md5=cd15f7801ec7d8092531b63845c3a328)

[s2.0-85066150994&doi=10.1007%2fs10973-019-08350-1&partnerID=40&md5=cd15f7801ec7d8092531b63845c3a328](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066150994&doi=10.1007%2fs10973-019-08350-1&partnerID=40&md5=cd15f7801ec7d8092531b63845c3a328)

Precious walls built in indoor environments inspected numerically and experimentally within long-wave infrared (LWIR) and radio regions

Sfarra, S., Yao, Y., Zhang, H., Perilli, S., Scozzafava, M., Avdelidis, N.P., Maldague, X.P.V.

23006024400; 35244017600; 56717788300; 57216680663; 8278594200; 7004244040; 7003528304;

Precious walls built in indoor environments inspected numerically and experimentally within long-wave infrared (LWIR) and radio regions

(2019) Journal of Thermal Analysis and Calorimetry, 137 (3), pp. 1083-1111.

[https://www.scopus.com/inward/record.uri?eid=2-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060133999&doi=10.1007%2fs10973-019-08005-1&partnerID=40&md5=390a3486911b326a509dcfac49476a1f)

[s2.0-85060133999&doi=10.1007%2fs10973-019-08005-1&partnerID=40&md5=390a3486911b326a509dcfac49476a1f](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060133999&doi=10.1007%2fs10973-019-08005-1&partnerID=40&md5=390a3486911b326a509dcfac49476a1f)

Study on internal stress damage detection in long-distance oil and gas pipelines via weak magnetic method

Liu, B., He, L., Ma, Z., Zhang, H., Sfarra, S., Fernandes, H., Perilli, S.

57022461300; 57193529829; 57203841089; 56717788300; 23006024400; 25031160600; 57216680663;

Study on internal stress damage detection in long-distance oil and gas pipelines via weak magnetic method

(2019) ISA Transactions, 89, pp. 272-280.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059239919&doi=10.1016%2fj.isatra.](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059239919&doi=10.1016%2fj.isatra.2018.12.009&partnerID=40&md5=2bb8e72adf3ae05b82365b594a9f9f31)

[2018.12.009&partnerID=40&md5=2bb8e72adf3ae05b82365b594a9f9f31](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059239919&doi=10.1016%2fj.isatra.2018.12.009&partnerID=40&md5=2bb8e72adf3ae05b82365b594a9f9f31)



Research on stress detection technology of long-distance pipeline applying non-magnetic saturation

Liu, B., He, L., Zhang, H., Sfarra, S., Fernandes, H., Perilli, S., Ren, J.

57022461300;57193529829;56717788300;23006024400;25031160600;57216680663;45761433700;

Research on stress detection technology of long-distance pipeline applying non-magnetic saturation

(2019) IET Science, Measurement and Technology, 13 (2), pp. 168-174.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062075919&doi=10.1049%2fiet-smt.](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062075919&doi=10.1049%2fiet-smt.2018.5404&partnerID=40&md5=a9effc7e97062863da0e524bbafda716)

2018.5404&partnerID=40&md5=a9effc7e97062863da0e524bbafda716

Influence of insulation defects on the thermal performance of walls. An experimental and numerical investigation

Nardi, I., Perilli, S., de Rubeis, T., Sfarra, S., Ambrosini, D.

56414540300;57216680663;57035305500;23006024400;56217287400;

Influence of insulation defects on the thermal performance of walls. An experimental and numerical investigation

(2019) Journal of Building Engineering, 21, pp. 355-365.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056639518&doi=10.1016%2fj.job.](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056639518&doi=10.1016%2fj.job.2018.10.029&partnerID=40&md5=9b112137c6f8f66e21ce7b079d5ad7b)

2018.10.029&partnerID=40&md5=9b112137c6f8f66e21ce7b079d5ad7b

Improving the detection of thermal bridges in buildings via on-site infrared thermography: The potentialities of innovative mathematical tools

Sfarra, S., Cicone, A., Yousefi, B., Ibarra-Castaneda, C., Perilli, S., Maldague, X.

23006024400;35104527900;25032139600;7801363783;57216680663;7003528304;

Improving the detection of thermal bridges in buildings via on-site infrared thermography: The potentialities of innovative mathematical tools

(2019) Energy and Buildings, 182, pp. 159-171.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055900407&doi=10.1016%2fj.enbuild.](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055900407&doi=10.1016%2fj.enbuild.2018.10.017&partnerID=40&md5=e84e059f939642e16fbb346898d10ba9)

2018.10.017&partnerID=40&md5=e84e059f939642e16fbb346898d10ba9

Quantitative study of magnetic memory signal characteristic affected by external magnetic field

Liu, B., He, L., Zhang, H., Sfarra, S., Fernandes, H., Perilli, S., Ren, J.

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Combined experimental and computational approach for defect detection in precious walls built in indoor environments

Perilli, S., Sfarra, S., Ambrosini, D., Paoletti, D., Mai, S., Scozzafava, M., Yao, Y.

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A multi-technique nondestructive approach for characterizing the state of conservation of ancient bookbindings

Sfarra, S., Regi, M., Tortora, M., Casieri, C., Perilli, S., Paoletti, D.

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Impact modelling and a posteriori non-destructive evaluation of homogeneous particleboards of sugarcane bagasse

Zhang, H., Sfarra, S., Sarasini, F., Fiorelli, J., Peeters, J., Avdelidis, N.P., de Lucca Sartori, D., Ibarra-Castanedo, C., Perilli, S., Mokhtari, Y., Tirillò, J., Maldague, X.P.V.

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The thermophysical behaviour of cork supports doped with an innovative thermal insulation and protective coating: A numerical analysis based on in situ experimental data

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The thermophysical behaviour of cork supports doped with an innovative thermal insulation and protective coating: A numerical analysis based on in situ experimental data

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Eddy current pulsed thermography for ballistic impact evaluation in basalt-carbon hybrid composite panels

Zhang, H., Sfarra, S., Osman, A., Sarasini, F., Netzelmann, U., Perilli, S., Ibarra-Castanedo, C., Maldague, X.P.V.

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Optical and mechanical excitation thermography for impact response in basalt-carbon hybrid fiber-reinforced composite laminates

Zhang, H., Sfarra, S., Sarasini, F., Ibarra-Castanedo, C., Perilli, S., Fernandes, H., Duan, Y., Peeters, J., Avdelidis, N.P., Maldague, X.

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A proposal of a new material for greenhouses on the basis of numerical, optical, thermal and mechanical approaches

Sfarra, S., Perilli, S., Ambrosini, D., Paoletti, D., Nardi, I., de Rubeis, T., Santulli, C.

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Evaluation of the state of conservation of mosaics: Simulations and thermographic signal processing

Sfarra, S., Ibarra-Castanedo, C., Theodorakeas, P., Avdelidis, N.P., Perilli, S., Zhang, H., Nardi, I., Kouli, M., Maldague, X.P.V.

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Inspecting Marquetries at Different Wavelengths: The Preliminary Numerical Approach as Aid for a Wide-Range of Non-destructive Tests

Sfarra, S., Theodorakeas, P., Černecký, J., Pivarčiová, E., Perilli, S., Kouli, M.

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Numerical and experimental analyses for natural and non-natural impacted composites via thermographic inspection, ultrasonic C-scan and terahertz imaging

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Analysis of damage in hybrid composites subjected to ballistic impacts: An integrated non-destructive approach

Sfarra, S., López, F., Sarasini, F., Tirillò, J., Ferrante, L., Perilli, S., Ibarra-Castanedo, C., Paoletti, D., Lampani, L., Barbero, E., Sánchez-Sáez, S., Maldague, X.

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Ageing Effects on the Thermal Performance of Two Different Well-insulated Buildings

Nardi, I., De Rubeis, T., Perilli, S.

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An innovative nondestructive perspective for the prediction of the effect of environmental aging on impacted composite materials

Sfarra, S., Regi, M., Santulli, C., Sarasini, F., Tirillò, J., Perilli, S.

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An innovative nondestructive perspective for the prediction of the effect of environmental aging on impacted composite materials



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Comparative analysis of heat transfer for an advanced composite material used as insulation in the building field by means of comsol Multiphysics ® and matlab ® computer programs

Perilli S.; Regi M.; Sfarra S.; Nardi I.
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Comparative analysis of heat transfer for an advanced composite material used as insulation in the building field by means of Comsol Multiphysics ® and Matlab ® computer programs

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Ceramics and defects: Infrared thermography and numerical simulations - A wide-ranging view for quantitative analysis

Sfarra S.; Perilli S.; Paoletti D.; Ambrosini D.
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Ceramics and defects: Infrared thermography and numerical simulations - A wide-ranging view for quantitative analysis

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A comparison between thermographic and flow-meter methods for the evaluation of thermal transmittance of different wall constructions

Nardi I.; Ambrosini D.; De Rubeis T.; Sfarra S.; Perilli S.; Pasqualoni G.
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A comparison between thermographic and flow-meter methods for the evaluation of thermal transmittance of different wall constructions

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● **PATENTE DI GUIDA**

Patente di guida: A
Patente di guida: B

● **CONFERENZE E SEMINARI**

19/06/2017 - 23/06/2017 - Massa Lubrense (Na)
L'edificio del futuro: il contributo della ricerca fisico tecnica X edizione
Scuola estiva della fisica tecnica

26/06/2017 - 28/06/2017 - Ancona
35th UIT Heat Transfer Conference

10/07/2018 - 12/07/2018 - Noordwijk, Paesi bassi
Visita presso la sede ESA -ESTEC-
"Evaluation of the use additive technology for strain gauge with AJP, in aerospace industry"
alla presenza della Responsabile Dott.ssa Carole Villette per progetto europeo

19/09/2018 - 20/09/2018 - Arese, Milano
RM Forum,
Additive manufacturing conference



13/06/2022 - 17/06/2022 - Comec Innovative

Corso di formazione per l'uso della macchina erogato in presenza e in lingua inglese presso Comec Innovative da:
Ing. Kyle Homan, Optomec Applications Engineer

OPTOMECH AJ_5X_System

PROGETTI

01/04/2018 - 23/09/2018

AMALFI DECISION SUPPORT TOOL

partecipazione alla scrittura ed alla verifica funzionale, in collaborazione con HI-TECH ELETTRONICA S.R.L. (L'AQUILA), di una architettura software per elaboratore. Attraverso una procedura Decisionale completamente automatica è possibile verificare secondo il noto algoritmo A.M.A.L.F.I. la fattibilità costruttiva di un componente elettronico o meccanico. A partire da un progetto 3D, tale algoritmo consente di verificare se la realizzazione possa avvenire solo con tecnica ablativa, solo con tecnica additiva oppure se risulta possibile la composizione di esse.

La registrazione del software è avvenuta durante il periodo dell'assegno di ricerca a nome della società:

Presso: HI-TECH ELETTRONICA, VIA ONOREVOLE GIUSEPPE SARAGAT, 67100, L'AQUILA

con numero **29-03-2018/012301**

TESI

2018 - 2019

Correlatore tesi di Laurea, Università La Sapienza di Roma

Titolo: Studio ed applicazione della tecnologia Aerosol Jet Printing nello sviluppo di sistemi Structural Health Monitoring nel settore Aeronautico

Relatore: Chiar.mo Prof. Ing. Umberto Grasselli

Correlatore: Ing. Stefano Perilli, Ph.D.

Candidato: Enrico Toccaceli, matricola 1468782.

Le deposizioni AJP sono state realizzate nei laboratori di UNIBS

ONORIFICENZE E RICONOSCIMENTI

16/09/2016

PREMIO ALFANO – 71° Congresso ATI Torino

Premio: Vincitore miglior lavoro di fisica tecnica dell'anno

BREVETTI

05/11/2024

Titolare: SENSORI 3D S.R.L.

P.IVA/CF: 02056370667

Inventore: Ing. Stefano Perilli

TITOLO: SISTEMA E METODO PER IL MONITORAGGIO STRUTTURALE MEDIANTE SENSORE INTEGRATO E DEDICATO DI UN COLLEGAMENTO MECCANICO SMONTABILE

Domanda n°:102024000024837

COMPETENZE DI GESTIONE E DIRETTIVE

Attività di revisore per le seguenti riviste internazionali

attività di revisore per le seguenti riviste internazionali tra parentesi il numero di lavori scientifici revisionati, per un totale di N°57:

Materials, MDPI (2)

Entropy, MDPI (1)

Mathematical Problems in Engineering, Hindawi (8)



Journal of Cleaner Production, Scimago (2)
Journal of Manufacturing and Materials Processing (1)
Electronics, MDPI (1)
Coatings, MDPI (1)
Applied Sciences, MDPI (2)
Construction and Building Materials, Editorial Manager (1)
Advances in Mechanical Engineering, Sage Journals (2)
Sensors, MDPI (8)
International Journal of Heat and Mass Transfer, Elsevier (1)
Energy and Buildings, Elsevier (2)
QUIRT Journal, Taylor & Francis (24)
NDT&E International, Elsevier (1)

rivista internazionale PROCESS

Topic Editor della rivista internazionale PROCESS edita da MDPI (ISSN 2227-9717; CODEN: PROCCO) indicizzata su Scopus e Web of Science dal 02-11-2020 a oggi

rivista internazionale RADIATION

Topic Editor della rivista internazionale RADIATION edita da MDPI (ISSN 2673-592X) indicizzata su Scopus e su Web of Science dal 02-11-2020 a oggi

ORDINE DEGLI INGEGNERI

Iscritto all'albo unico degli Ingegneri della Provincia dell'Aquila,
Sezione A, AERONAUTICA, Settore Industriale
Matricola 3116
Dal 22/04/2015 ad oggi

CTU TRIBUNALE L'AQUILA

CTU presso il Tribunale dell'Aquila Abilitato per la sezione Civile e Penale

L'Aquila, 12/06/2025

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".