UNIVERSITÀ DEGLI STUDI DI SALERNO
(ITALY)

ALESSANDRO NADDEO

(ASSOCIATE PROFESSOR IN DESIGN AND METHODS FOR INDUSTRIAL ENGINEERING)

CURRICULUM VITAE

CV of Alessandro Naddeo

Personal data

Name: Alessandro Naddeo
Gender: Male

Curriculum vitae

He had the Master Degree at University of Salerno in Mechanical Engineering, "summa cum laude", on 1999. He won a scholarship grant by Italian Society of Automotive Engineering (ATA - Associazione Tecnica dell'Automobile – Turin) for his theoretical/experimental MD thesis at ELASIS - FIAT research system in South of Italy.

Since December 1999, he was junior research assistant at Dept. of Mechanical Engineering of University of Salerno, in Industrial Design team.

In 2000, he won a scholarship offered as a prize by Dept. of Informatics and Applied Mathematics of University of Salerno on the research topic "Optimization in mechanical design with paracomplete logics[1]".

From October 2001 to November 2002, he was employed in ELASIS S.c.p.A. (FIAT research system in South of Italy) of FIAT industries, in Product Development Methods team, working as Computer Aided Design Specialist on Vehicles Design, Crashworthiness, Pedestrian Tests, Non-metallic Materials Characterization and Software Independence.

While employed in FIAT, he worked:

- in Delft (The Netherlands) at TNO Automotive on February 2002
- in Detroit (U.S.A.) at FIAT R&D on February/March 2002
- in Ispra (Italy) at JRC (Joint Research Centre) of European Community on September 2002

He had followed some training courses on "Finite Element Simulation using Explicit Codes":

- in Heidelberg (Germany) at ESI GmbH on October 2001
- in Naples (Italy) at Paul du Bois training Course, on October 2002.

On October 2002, he won the national competitive application to become Assistant Professor of Italian S.S.D. ING-ING/15 (Scientific-Disciplinary-Sector of Design and Methods of Industrial Engineering) and on December 2002, he was employed at

[1] The original Italian Title was "Ottimizzazione nella progettazione meccanica ed industriale con logiche non standard"

Engineering Faculty of University of Salerno (the youngest Italian Professor in S.S.D. ING/IND-15).

Since January 2011, he was employed as Aggregate Professor (Assistant Professor with more than 120 hours of teaching activities) at Industrial Engineering Department of University of Salerno.

Since January 2018, he is employed as Associate Professor at Industrial Engineering Department of University of Salerno.

On December 2018 he has been awarded the Degree of Doctor (PhD) at Technical University of Delft (The Netherlands) discussing a Thesis whose title is "Towards predicting the (dis)comfort performances by modelling: methods and findings".

Since July 2020 he was awarded with Full Professor National Qualification as Full Professor National Qualification as Full Professor in Scientific Area ING-IND/15, "Design methods for industrial engineering".

He was Session-Chairman in International Conferences like ICAD 2004 (International Conference on Axiomatic Design – Seoul, Republic of South Korea), SCI 2004 and 2005 (World Multi-Conference on Systemics, Cybernetics and Informatics – Orlando (FL), U.S.A.), AMME 2006 (Achievements in Mechanical and Materials Engineering, Wisla, Poland), AHFE 2014 and 2016 (Applied Human Factors and Ergonomics), ADM-INGEGRAF 2017 and 2018 (International Conference of Engineering Graphics, Cartagena (ES) and Modena (IT)), ICEGD 2017 and 2019 (International Conference of Engineering Graphics and Design - Brasov and Craiova (RO)).

He was Chairman of Organizing Committee and President of Scientific Committee of the International Comfort Congress (2017 in Salerno (IT) and 2019 in Delft (NL)) that was organized in cooperation with Delft University of Technology, Imperial College of London (UK), Nottingham Trent University (UK) and Grammer GMBH (Germany).

Since 2004 he is reviewer for National and International Conferences, and for international Journals like Journal of Materials Processing Technology, Journal of Automotive Engineering, Journal of Safety Science, Applied ergonomics, Ergonomics, Journal of Industrial ergonomics, Work and many others. He is member of the Editorial board of the International Journal of Mechanical Engineering and Industrial Design, of Journal of Mathematical Problems in Engineering, of Work (Journal of Prevention, Assessment & Rehabilitation), of International Journal of Human Factors and Ergonomics. In 2017 is Guest Editor for the Special Issue "Comfort" in the Journal of Applied Ergonomics and in 2020 was invited to be a member of the Editorial Board of Applied Ergonomics.

Since 2011 he was member of the National Committee of the University Ministry for the evaluation of Research Projects and for the evaluation of Universities' "Research products" (papers, publications, patents, books, ...). Since 2017 he is member of REPRISE (Register of Expert Peer-Reviewers for Italian Scientific Evaluation).

Since 2007, he was responsible for the Virtual Reality Lab. of University of Salerno. Since 2013 he is responsible of the research group "Design Methods, Human Factors and Ergonomics".

On September 2014, he was Visiting Professor at Dumlupinar University in Kutahya (Turkey) in the "Erasmus International Staff mobility for teaching Programme".

On June 2015, he was Visiting Professor at Transilvania University in Brasov (Romania) within the "Erasmus+ International Staff mobility for teaching Programme".

On April 2016, November 2016, December 2017 and April 2018, he was Visiting Professor at Delft University of Technology in Delft (The Netherlands) within the "Erasmus+ International Staff mobility for teaching Programme".

On September 2016, he was Visiting Professor at Politehnica University of Bucharest (Romania) within the "Erasmus+ International Staff mobility for teaching Programme".

He is member of IEA (International Ergonomic Association) – Italian Chapter SIE (Società di Ergonomia e Fattori Umani), member of the USA-chapter of SAE (Society of Automotive Engineering), member of Europe chapter of HFES (The Human Factors and Ergonomics Society), senior member of the ADM-INGEGRAF International Design Association and former member of ISGG (International Society for Geometry and Graphics).

Teaching activities

Since 2002, Alessandro Naddeo had teaching assignments (an average of 150 hours per year) at Faculty of Engineering of University of Salerno in BD, MD and PhD courses of Mechanical engineering, Management Engineering, Chemical Engineering, Architecture and Civil Engineering Departments.

He gave and gives his lectures in the following teaching assignments:

For Mechanical Engineering Department: Design and Drafting, Computer Aided Design, Computer Aided Design Applications, Computer Graphics, Virtual reality Laboratory, Virtual Design Laboratory, Design Methods, Virtual Prototyping and Product Innovation, Advanced Mechanical Systems Design, Biomechanics of Skull-brain system, Biomechanics

For Management Engineering Department: Design and Drafting, Computer Aided Design, Virtual Design Laboratory, Product Development and Innovation, Advanced Mechanical Systems Design

For Chemical Engineering Department: Design and Drafting

For Architecture and Civil Engineering Department: Design and Drafting, Graphics and Informatics.

For Smart Industry Engineering (MD): Virtual Design for Smart Industry

He was supervisor (promotor) of more than 130 BD and MD Thesis in Mechanical, Management and Civil engineering. He was supervisor and tutor of 4 Joint Master Degree Thesis, in cooperation with La Plata Industrial Engineering (Argentina).

He was promotor of 6 PhD Thesis in Mechanical and Industrial Engineering.

He is member of several committees in Mechanical Engineering Teaching Area at University of Salerno. He is member of the "Self Evaluation Group" of University of Salerno for the quality of BD/MD Courses. He is member of the "Research outputs evaluations" (VQR) of the Department of Industrial Engineering, He is also member of EURACE Quality Insurance workgroup at UNISA and of Research Quality Insurance workgroup.

From 2003 to 2011, he was member of the Board for Doctorates in Mechanical Engineering of University of Salerno.

Since 2011, he was member of the Board for Doctorates in Industrial Engineering of University of Salerno.

In 2015, he was member of the doctoral committee of Ir. S. van Mastrigt for the draft dissertation whose title is "Comfortable passenger seats. Recommendations for design and research" at Delft University of Technology (The Netherlands).

In 2016, he was member of the doctoral committee of Ir. S.A.T. van Veen for the draft dissertation whose title is "Driver Vitalization. Investigation sensory stimulation to achieve a positive driving experience" at Delft University of Technology (The Netherlands).

In 2018, he was member of the doctoral committee of Ir. Joyce M.A. Bouwens for the draft dissertation whose title is "Design Considerations for Airplane Passenger Comfort" at Delft University of Technology (The Netherlands).

In 2018, he was member of the doctoral committee of Ir. Ümit Kilincsoy for the draft dissertation whose title is "Digitalization of posture-based Seat Design. Developing car interiors by involving user demands and activities" at Delft University of Technology (The Netherlands).

In 2020, he was member of the doctoral committee of Ir. Maximilian Wegner for the draft dissertation whose title is "Seat comfort objectification, a new approach to objectify the seat comfort" at Delft University of Technology (The Netherlands).

In 2021, he was member of the doctoral committee of Ir. Shabila Anjani for the draft dissertation whose title is "Aircraft interiors, effects on the human body and experienced comfort" at Delft University of Technology (The Netherlands).

Research activities

Alessandro Naddeo works on research topics about Virtual Prototyping and Innovative Design Methods development. His studies deal with Industrial Design Methods and techniques, Design Theory, Design Optimization, Computer Aided applications development.

Developed theories and methods have been applied in Automotive industries, in Aerospace companies, in Product/process design and optimization, in Human health and safety, in Biomedical engineering.

Since 2007, the most important field of research was the development of tools and methods for HMI (Human Machine Interface) analysis and design, for Ergonomics evaluation, for Comfort perception modeling and optimization.

In the last 4 years, he conducted studies about Biomechanical behavior analysis, Bio-fidelity simulations and Biomedical Engineering, with application on Brain injuries simulation, Spine simulation and modeling, Patient specific medical device design and rapid manufacturing, Tissue engineering for scaffold design (for controlling the growth of mesenchymal cells).

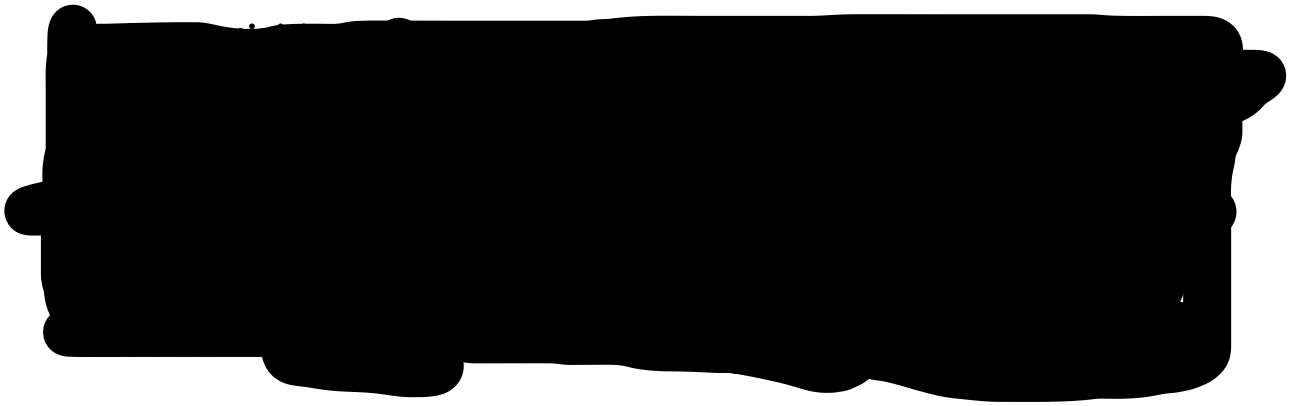
On these topics, Alessandro Naddeo published some books' chapters and more than 120 papers in International Conferences, International Journals and book series.

He was invited speaker and keynote speaker in several International Symposia and Conferences all around the world.

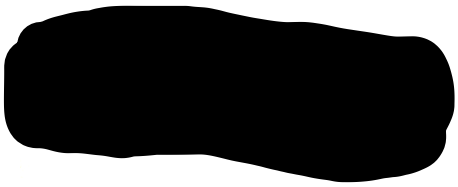
Part of the "ergonomics and comfort" research activity has been made in cooperation with Delft Technical University (The Netherlands).

Start-up Initiative

In 2016 Alessandro Naddeo, with five of his colleagues, has created a Start-up company initiative named "H-Opera" that works in the field of research of "Computer Aided" Medical Solutions. Its business is centered on the design and development of patient-specific solution in Neurosurgery and in Orthopedics surgery.



Salerno (Italy), 13/10/2021



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