

1. Personal Information

Nationality/Passport: Hellenic/Hellenic
Date/Place of birth: 16th February 1982/Amarousio Attica, Hellas
Languages: Hellenic, English, German
Marital Status: Married (2017), (1) daughter, (1) son
Employer: NTUA – National Technical University of Athens
Address (work): 9 Heroon Polytechniou Str., 15780 Zografou-Attica, Hellas
Address (living): 1 Sarantaporou Str., 15561 Cholargos-Attica, Hellas
E-mail/Tel.: chasalevris@mail.ntua.gr / +302107723681
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<http://users.ntua.gr/chasalevris>



2. Professional Experience

a. Academic Appointments

- (Sep. 2018 – today) **NTUA – National Technical University of Athens** (Athens 15780, Hellas)
Position: Assistant Professor
Faculty: School of Mechanical Engineering – Dept. of Mechanical Design & Automatic Control
- (Sep. 2012 – Aug. 2013) **TUD - Technische Universität Darmstadt** (Darmstadt 64287, Germany)
Position: Research Associate
Faculty: Institute for Dynamics of Structures, Faculty of Mechanical Engineering
- (May 2010 – Aug. 2012) **TUD - Technische Universität Darmstadt** (Darmstadt 64287, Germany)
Position: Alexander von Humboldt postdoctoral researcher
Faculty: Institute for Dynamics of Structures, Faculty of Mechanical Engineering

b. Appointments in Industry

- (July. 2017 – Sep. 2018) **General Electric Co. / GE Oil & Gas¹** (Rugby CV212NH, United Kingdom)
Position: Team Leader Rotordynamics, Senior Engineer & Product Owner² (bearings)
Business: Industrial Power Solutions / Turbine Power Systems
Objective: R&D and Execution Engineering of Industrial Steam Turbines
- (Nov. 2015 – Jun. 2017) **General Electric Co. / GE Oil & Gas¹** (Rugby CV212NH, United Kingdom)
Position: Senior Rotodynamic Engineer & Product Owner² (bearings)
Business: Industrial Power Solutions / Turbine Power Systems
Objective: R&D and Execution Engineering of Industrial Steam Turbines
- (Feb. 2015 – Oct. 2015) **ALSTOM / ALSTOM Power¹** (Rugby CV212NH, United Kingdom)
Position: Rotodynamic & Mechanical Integrity Engineer
Business: Industrial Power Generation/ Steam
Objective: R&D and Execution Engineering of Industrial Steam Turbines
- (Sep. 2013 – Jan. 2015) **BorgWarner Inc. / BorgWarner Turbosystems Engineering GmbH**
Position: Rotodynamic Engineer (Ingenieur Rotodynamik) (Kirchheimbolanden, Germany)
Business: Core Science-Bearings-Preventive Acoustics & Dynamics
Objective: R&D Engineering of Turbosystem Dynamics for Diesel/Otto engines of passenger cars, lorries, and marine diesel engines

¹ The acquisition of ALSTOM Power from GE was finalized in November 2015

² The responsibility of Product Owner for bearings was assigned in November 2016

3. Education

- (July 2004–July 2009) **Ph.D. - University of Patras**
Machine Design Laboratory, Dept. of Mechanical Engineering and Aeronautics / **Section of Design and Manufacturing**, School of Engineering, Patras 26504, Hellas
Ph.D. Thesis: Vibration analysis of nonlinear-dynamic rotor-bearing systems and defect detection, University of Patras Press, 2009, (In English). Supervisor: Prof. Chris Papadopoulos[†]
 - (Sep. 1999–July 2004) **Dipl. Mechanical & Aeronautical Engineer (M.Eng.) - University of Patras** (7.47/10, graduated 6th of 160)
Machine Design Laboratory, Dept. of Mechanical Engineering and Aeronautics / **Division of Design and Manufacturing**, School of Engineering, Patras 26504, Hellas
Dipl. Thesis: Cross-Coupled vertical and horizontal bending vibrations of a cracked rotor with two cracks (In Greek). Supervisor: Prof. Chris Papadopoulos[†]
 - (Sep. 1996–June 1999) **Lyceum Certificate** (17.8/20) - **4th General Lyceum of Ioannina**, Ioannina 45332, Hellas
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4. Research Interests

- **Machine Dynamics:** linear & nonlinear dynamics of rotating machines
 - **Tribology – Fluid Mechanics:** analytical and numerical solutions on hydrodynamic lubrication
 - **Nonlinear Dynamics:** continuation methods in the dynamic design of nonlinear rotor systems
 - **Time periodic systems – Parametric excitation:** development of adjustable/controllable journal bearings of variable geometry
 - **Fracture Mechanics:** simulation of defects in rotating systems (rotor crack & bearing wear) & methods for NDT
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5. Collaborations³

- (2021) **KIT-Karlsruhe Institute of Technology (DE):** Nonlinear Dynamics of Rotors on Adjustable Bearings
 - (2021) **RPI-Rensselaer Polytechnic Institute (US):** Application of Operational Modal Analysis (OMA) in rotating machines
 - (2020) **SUT-Sharif University of Technology (IR):** Dynamics of bent rotors on nonlinear bearings
 - (2020) **BorgWarner Turbosystems (DE)/Noise and Vibration Harshness div.:** Model Order Reduction (MOR) Techniques in rotors
 - (2021) **UMIT-Private University for Health Sciences, Informatics and Technology (AT):** Parametric excitation of rotors
 - (2021) **MTU Aero engines (DE)/Jet Engine Dynamics div.:** Squeeze film damper models in jet engines (co-supervision of MSc Thesis)
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6. Teaching Work

- (Sep. 2018 – today) Machine Elements I (3rd semester-mandatory for all students) at the School of Mechanical Engineering, NTUA (**co-teaching 2/3**)
- (Feb. 2019 – today) Kinematics and Dynamics of Mechanisms (4th semester-mandatory for all students) at the School of Mechanical Engineering, NTUA (**full time teaching**)
- (Sep. 2020 – today) Dynamics and Vibrations (5th semester-mandatory for all students) at the School of Mechanical Engineering, NTUA (**co-teaching 1/2**)
- (Sep. 2020 – today) Dynamics of Rotating Machines (7th semester-elective⁴) at the School of Mechanical Engineering, NTUA (**full time teaching**)

- (Sep. 2012 – Jul. 2013) Teaching assistant in tutorials on rigid body dynamics (Dynamik starrer Körper) (4th semester) and on structural mechanics (Strukturmechanik)(6th semester of studies), at the Institute for Dynamics of Structures, Faculty of Mechanical Engineering, TU Darmstadt

³ Only the collaborations with KIT and MTU are established with contract. The collaboration with KIT includes funding

⁴ **9** students at the 1st year of teaching; **32** students at the 2nd year of teaching

- (Sep. 2004 – Jun. 2007) Teaching assistant in undergraduate courses in Machine Design (Critical speeds of Rotors, Balancing, Fatigue Failure) (5th and 6th semester), at the Machine Design Laboratory, Dept. of Mechanical Engineering and Aeronautics, University of Patras
- (Sep. 2004 – Jun. 2007) Teaching assistant in undergraduate courses in Computational methods in Engineering Design using Computer (CAD) (10th semester), at the Machine Design Laboratory, Dept. of Mechanical Engineering and Aeronautics, University of Patras

7. Supervision⁵

Duration | Name | Affiliation | Objective or title when applicable

- **PhD Theses**
 - 1) 21/10/2019 – 12/01/2021 | **Lysandros Anastasopoulos** | NTUA – School of Mech. Eng. | Run-up simulation and real-time control of nonlinear rotor-bearing systems. (**Permanently interrupted**)
- **MSc Theses**
 - 6) 09/2021 – today | **Georgios Mitsos** | NTUA – School of Mech. Eng. and MTU Aero Engines (**co-supervision**) | Influence of Speed and Eccentricity Dependent Bearing Stiffness and Damping on Rotor Vibrations in Jet Engines
 - 5) 03/2021 – today | **Alexis Chatzistavris** | NTUA – School of Mech. Eng. | Nonlinear Dynamics of Automotive Turbochargers with Wire Mesh Dampers
 - 4) 03/2021 – today | **Ioannis Gavalas** | NTUA – School of Mech. Eng. | Nonlinear Dynamics of Turbine Generator Shaft Trains – Evaluation of Bifurcation Sets Applying Numerical Continuation
 - 3) 03/2021 – today | **Emmanouil Dimou** | NTUA – School of Mech. Eng. | Parametric Excitation and Antiresonance in Rotating Systems with Gas Bearings
 - 2) 03/2021 – today | **Panagiotis Papafragkos** | NTUA – School of Mech. Eng. | Optimization of Gas Bearing Properties to avoid Bifurcations of Limit Cycles in Rotor Systems – An Energy Approach Applying Numerical Continuation
 - 1) 03/2020–03/2021 | **Ioannis Raptopoulos** | NTUA – School of Mech. Eng. | Stability, Bifurcations, and Energy Flow in Dynamic Systems of Elastic Rotors on Gas Foil Bearings
- **Internships**
 - 2) 05/05/2021 – 27/07/2021 | **Baptiste Simon** | Université de Toulon (F) | Evaluation of Dynamic Properties of Foil Structures and Implementation in Gas Foil Bearing Dynamics.
 - 1) 27/04/2019 – 27/07/2019 | **Jean Charles Louis** | Université de Toulon (F) | Application of Bearing Database Method on the Rotor Dynamic Design of Turbosystems

8. Projects for Research and Development, and bearing product qualification⁶

- 1) As Assistant Professor in NTUA
- a) **Source:** Alexander von Humboldt Foundation (Germany) | **Fund:** 55k€ total - 47k€ for NTUA | **Title:** Nonlinear Dynamics of Rotor Systems on Adjustable Bearings | **Description:** Research Group Linkage Program with Karlsruhe Institute of Technology (KIT)
- 2) As **Senior Engineer - Rotordynamics** and **Product Owner** at **GE Oil & Gas** and **ALSTOM Power**¹ participated in the following projects concerning rotordynamic assessment for a) R&D engineering in industrial turbines, b) Execution engineering in project specific turbines. The projects for basic research on the development of industrial turbomachinery may be found in (c). As product owner, participated on the projects (d) for the qualification of bearing products.

a) R&D Engineering Projects

- (Oct. 2015 – Dec. 2015) *Geothermal Steam Turbine GST55N 30MW*
- (Dec. 2015 – Dec. 2016) *Geared Reaction Turbine GRT25E18 30MW (Condensing & HP Extraction versions)*
- (Jan. 2016 – Dec. 2016) *Geared Reaction Turbine GRT35E22 60MW (Condensing & IP Extraction versions)*
- (Jan. 2016 – Aug. 2016) *Geared Reaction Turbine GRT55E35 100MW (Condensing & Extraction Versions)*

⁵ Since the appointment in NTUA (23 September 2018)

⁶ During the employment in General Electric Co.

- (May. 2017 – Sep. 2018) *Geared Reaction Turbine GRT65F44 135MW (Condensing & Extraction Versions)*

b) Execution Engineering Projects

- (Mar. 2018 – Sep. 2018) *Oyka (Turkey) – Rotordynamic Assessment of **35MW** Steam Turbine-Gen*
- (Apr. 2018 – Sep. 2018) *Yinchun, Wuhan, Kangbao (China) – Rotordynamic Assessment of **3X45MW** ST-Gen*
- (Dec. 2016 – Feb. 2017) *Damhead Creek (England) – Rotordynamic Assessment of **490MW** Steam Turbine-Gen*
- (Oct. 2017 – Sep. 2018) *Gardabani (Georgia) – Rotordynamic Assessment of **83MW** Steam Turbine-Gen*
- (Jan. 2016 – Sep. 2018) *Takhiatash (Uzbekistan) – Rotordynamic Assessment of **95MW** Steam Turbine -Gen*
- (Mar. 2017 – Sep. 2018) *Iernut (Romania) – Rotordynamic Assessment of **85MW** Steam Turbine-Gen*
- (Feb. 2015 – Sep. 2015) *ThermaVisayas (Philippines) - Rotordynamic Assessment of **169MW** Steam Turb.-Gen*
- (Jun. 2015 – Oct. 2015) *BP Grangemouth (Scotland) – Rotordynamic Assessment for high-speed balancing*
- (Oct. 2015 – Feb. 2016) *Karaha (Indonesia) – Rotordynamic Assessment of **33MW** Steam Turbine-Gen*
- (Mar. 2016 – Sep. 2016) *Dunhuang (China) – Rotordynamic Assessment of **100MW** Steam Turbine-Gen*
- (Aug. 2016 – Nov. 2016) *Yerevan (Armenia) – Rotordynamic Assessment of **76MW** Steam Turbine-Gen*

c) Basic Research Projects on the dynamics of turbomachinery

- (Jan. 2018 – Sep. 2018) *Nonlinear Stability assessment of large steam turbine Generator Shaft Trains. Identification of super-critical and sub-critical bifurcations and periodic solution stability.*
- (Jun. 2015 – Sep. 2018) *Development of innovative journal bearings of variable geometry for real time alignment and optimization of operation of turbine-generator shaft trains*
- (Aug. 2015 – Sep. 2018) *Introducing parametric excitation and modal interaction in turbine-generator shaft trains for the suppression/elimination of resonance amplitude and extension of instability margins in higher speeds*

d) Projects in product ownership (bearings)

- (July. 2018 – Sep. 2018) *Product qualification of Steam Turbine bearings from **Osborne Engineering Limited-OEL** (Newcastle (UK)), with onsite inspection of manufacturing, babbitting, adhesion, and testing methodologies*
- (June. 2018 – Sep. 2018) *Product qualification of Steam Turbine bearings from **GTW** (Brno (CZ))*
- (Nov. 2016 – Sep. 2018) *Product qualification of turbine bearings from **White Metal Industria e Comércio Ltda** (Sao Paulo (BR)), with onsite inspection of manufacturing, babbitting, adhesion, and testing methodologies*
- (Nov. 2016 – Sep. 2018) *Product qualification of turbine bearings from **Lufkin RMT** (Lufkin Industries, LLC) (Florence (I), and Wellsville NY (US))*

3) As **Rotordynamic Engineer** at **BorgWarner Inc.** participated in the following projects for the rotor dynamic development of Turbo-Charging systems for internal combustion engines of passenger cars and commercial vehicles:

- | | |
|--------------------------------------------------------------------------------------------|----------------------|
| • (Sep. 2013 – Feb. 2015) <i>Basic Development – Methodology Bearing Development</i> | R&D-Nr.: EB 0.86.051 |
| • (Sep. 2013 – Feb. 2015) <i>Basic Development – Rotordynamics</i> | R&D-Nr.: EB 0.86.009 |
| • (Feb. 2013 – Feb. 2015) <i>JAGUAR LAND ROVER R2S 2.0L Diesel</i> | R&D-Nr.: BF 1.49.002 |
| • (Mar. 2013 – Feb. 2015) <i>BMW B53 TU1 1.5L 3cyl. Gasoline</i> | R&D-Nr.: RZ 1.02.001 |
| • (Mar. 2013 – Feb. 2015) <i>RENAULT K9K Gen7 Eu6C VTG (Variable Turbine Geometry)</i> | R&D-Nr.: OR 1.14.018 |
| • (Sep. 2014 – Feb. 2015) <i>VOLKSWAGEN 2.0L CR 140/147kW MDB laengs (TiAl)</i> | R&D-Nr.: KI 1.15.027 |
| • (Sep. 2014 – Feb. 2015) <i>FORD Advanced Development - Vorentwicklungszusammenarbeit</i> | R&D-Nr.: EA 0.83.080 |
| • (Nov. 2014 – Feb. 2015) <i>DAIMLER AG – OM654DE20LA R2S EU6 160kW (BV35/B03)</i> | R&D-Nr.: KI 1.09.032 |

4) As postdoctoral researcher in **Technische Universität Darmstadt** applied for funding, and executed the following projects for basic research:

- (Sep. 2012 – Jul. 2013) *Simulation-design-construction of a journal bearing with variable geometry for the reduction of vibrations in rotating machinery. Project co-funded from the **BMW**i (German Federal Ministry of Economics and Energy/SIGNO) and the **TU Darmstadt** (Supervision: Prof. Dr.-Ing. Richard Markert, estimated budget over 100.000€)*

- (May 2010 – Aug. 2012) *The transient vibratory behavior of a rotor mounted on worn fluid film bearings passing through resonance*. Project funded from the **Alexander von Humboldt Foundation** (Supervision: Prof. Dr.-Ing. Richard Markert, estimated budget over 50.000€)

9. Further Scientific Activities

- **Associate Editor** in the following international scientific journals:
 - 1) Journal of Engineering for Gas Turbines and Power, ASME (2019-2021)
 - 2) Shock & Vibration, Hindawi (since 2016)
- **Guest Editor** for special issues in the following international scientific journals:
 - 1) Design and Optimization of Rotor Dynamics in Applications, Applied Sciences, MDPI (2021)
 - 2) Dynamic Analysis and Control Applied in Nonlinear Rotor Systems, Shock and Vibration – Hindawi (2021)
 - 3) Advances in research and dynamic analysis of high-speed rotating machines, Shock and Vibration – Hindawi (2020)
 - 4) Rotordynamics in Automotive Engineering, Vehicles – MDPI (2019)
 - 5) International Journal of Rotating Machinery – Hindawi (2017)
- **Conference/Workshop/Minisymposium Organizer:**
 - 1) **Co-Chair**, and **co-organizer** of the "1st Workshop on Active Bearings in Rotating Machines", to be held in Athens in June 2022 (co-organized with Prof. Wolfgang Seemann, Karlsruhe Institute of Technology)
 - 2) **Co-organizer** in the **Session** "Rotordynamic Testing and Rotor Bow" (4 papers in total) in ASME Turbo Expo 2021, virtual online conference
 - 3) **Co-organizer** in the **Session** "Malfunctions and Diagnostic Techniques" (6 papers in total) in ASME Turbo Expo 2020, London (UK)
 - 4) **Co-organizer** of the **Minisymposium** "Recent Advances in Rotordynamics" (2 sessions, 12 papers in total) in ICOVP 2019, Crete (GR)
- **Conference related activities (chronologically)**
 - 1) **Member** of the Scientific Committee in **SIRM** – European Conference on Rotordynamics (2021)
 - 2) Session **co-Chair** in **ASME Turbo Expo 2020**, London (UK)
 - 3) Session **Chair** in **COMADEM 2019**, Huddersfield (UK)
 - 4) **Member** of the International Scientific Advisory Committee of the **COMADEM 2019**, Huddersfield (UK)
 - 5) Session **Chair** in **ICOVP 2019**, Crete (GR)
 - 6) Session **Chair** in **SIRM 2019**, Copenhagen (DK)
 - 7) **Member** of the Industrial Committee in the **ICORD 2018**, 10th IFToMM International Conference on Rotor Dynamics 2018, Rio de Janeiro (BR)
 - 8) Session **co-Chair** in **MOVIC & RASD 2016**, Southampton (UK)
 - 9) **Member** of the Industrial Committee in the **ICORD 2014**, 9th IFToMM International Conference on Rotor Dynamics 2014, Milan (I)
- **Invited Talks:**
 - 1) Online Talk in workshop on Analytical and Numerical methods for Nonlinear Vibrations, SRM Institute of Science and Technology, Tamilnadu (IN) (23.09.2021)
 - Title: Application of Numerical Continuation in the Dynamic Design of Nonlinear Rotor Systems
 - 2) Online Talk in Rotor Bearing System Workshop RBS-2020, IIT Guwahati (IN) (24.11.2020)
 - Title: Nonlinear Dynamic Design of Rotor Systems in Turbomachines
 - 3) Overview Talk in COMADEM 2019, University of Huddersfield, Huddersfield (UK) (05.09.2019)
 - Title: Challenges in Rotor Dynamic Design of Turbosystems
 - 4) University of Southampton (SOTON) – Institute of Sound and Vibration Research (28.11.2017)
 - Title: Turbomachinery Rotordynamics | Current research activity and future trends
 - 5) National Technical University of Athens (NTUA) – School of Mechanical Engineering (22.09.2017)
 - Title: Analysis & Design of Mechanical Structures | Trends in scientific research and technology | Development prospects in Greece and NTUA | Undergraduate and postgraduate education in the field

• **Reviewer**⁷ in the following international scientific journals:

- 1) *International Journal of Solids and Structures*, Elsevier
- 2) *Journal of Sound and Vibration*, Elsevier
- 3) *Communications in Nonlinear Science and Num. Simulations*, Elsevier
- 4) *Mechanical Systems and Signal Processing*, Elsevier
- 5) *International Journal of Bifurcation and Chaos*, World Scientific
- 6) *Mechanics Research Communications*, Elsevier
- 7) *International Journal of Structural Integrity*, Emerald
- 8) *Journal of Mechanics Engineering and Automation*, David Publishing
- 9) *Journal of the Brazilian Society of Mech. Sciences and Eng.*, Springer
- 10) *Official Journal of the Brazilian Academy of Sciences*
- 11) *Journal of Mechanical Engineering Science*, SAGE
- 12) *Aircraft Engineering and Aerospace Technology*, Emerald
- 13) *Simulation Modelling Practice and Theory*, Elsevier
- 14) *Industrial Lubrication and Tribology*, Emerald
- 15) *IMEchE, Part C: Journal of Mechanical Engineering Science*, SAGE
- 16) *IMEchE, Part E: Journal of Process Mechanical Engineering*, SAGE
- 17) *IMEchE, Part J: Journal of Engineering Tribology*, SAGE
- 18) *SN Applied Sciences*, Springer Nature
- 19) *ASME Letters in Dynamic Systems and Control*, ASME
- 20) *Aircraft Engineering and Aerospace Technology*, Emerald
- 21) *Journal of Vibration Engineering and Technologies*, Springer
- 22) *Tribology International*, Elsevier,
- 23) *Nonlinear Dynamics*, Springer
- 24) *Journal of Vibration & Acoustics*, ASME
- 25) *Journal of Vibration & Control*, SAGE
- 26) *Advances in Fuzzy Systems*, Hindawi
- 27) *Measurement*, Elsevier
- 28) *Lubrication Science*, Wiley
- 29) *Lubricants*, MDPI
- 30) *Acta Mechanica*, Springer
- 31) *Shock & Vibration*, Hindawi
- 32) *Applied Mathematical Modelling*, Elsevier
- 33) *Int. Journal of Mech. Sciences*, Elsevier
- 34) *Actuators*, MDPI
- 35) *Energies*, MDPI
- 36) *Vehicles*, MDPI
- 37) *Computation*, MDPI
- 38) *Micromachines*, MDPI
- 39) *Journal of Tribology*, ASME
- 40) *Applied Sciences*, MDPI

• **Reviewer** in the following international scientific conferences:

- 1) 9th IFToMM International Conference on Rotor Dynamics 2014, Milan (I)
- 2) ASME Turbo Expo 2015, Montreal (CN)
- 3) MOVIC & RASD 2016, Southampton (UK)
- 4) ASME Turbo Expo 2017, Charlotte (US)
- 5) ASME Turbo Expo 2018, Oslo (NO)
- 6) 10th IFToMM International Conference on Rotor Dynamics 2018, Rio de Janeiro (BR)
- 7) COMADEM 2019, Huddersfield (UK)
- 8) ASME Turbo Expo 2020, London (UK)

• **Reviewer** in the following editors:

- 1) Springer/Springer Brief series, NY, USA

• **Evaluator** in the following organizations:

- 1) **FCT** - Portuguese public funding agency for R&D - Civil and Mechanical Engineering and Engineering Systems (**salaried**)
- 2) **UKRI-EPSC** UK Research & Innovation - Engineering and Physical Sciences Research Council, Associate Review College

• **PhD thesis examiner**

- 1) "Optimization of Tribological Design of Internal Combustion Engines-Nanolubricants", submitted by Elias Tsakiridis and supervised by Assoc. Prof. Pantelis Nikolakopoulos in Dept. of Mech. Eng. In University of Patras, Hellas (2021)
- 2) "Applications of Oscillators in Energy Conversion", submitted by Andreas Paradeisiotis and supervised by Prof. Ioannis Antoniadis in School of Mech. Eng. NTUA, Hellas. (2019)
- 3) "Modelling and Model Reduction of Viscoelastic Composite Rotors: an Operator Based Approach", submitted by Saurabh Chandracker and supervised by Prof. Haraprasad Roy in National Institute of Technology Rourkela, Orissa, India. (2016)

• **Member (subscribed) of:**

- 1) IFToMM – *Technical Committee for Rotordynamics*
- 2) EUROMECH – *European Mechanics Society*
- 3) ASME – *American Society of Mechanical Engineers*
- 4) TEE – *Technical Chamber of Greece*

10. Awards

⁷ Approximately 25 reviews are performed each year

- (Jun. 2017) Award 'Beyond and Above' (700£) for the Patent [P2], **General Electric Co.**
 - (Apr. 2010) Research fellowship award for postdoctoral researchers (54000€), **Alexander Von Humboldt Foundation**
 - (Jun. 2004) Award for the excellence of studies in Mechanical Engineering, **Technical Chamber of Greece (TEE)**
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11. Courses and Training Seminars

- (05.09.2016 – 09.09.2016) **Course on Time-Periodic Systems: Theory and Application** in **CISM-16** (International Centre for Mechanical Sciences, Udine, I-33100)
-
- (Nov. 2015 - Today) **Training Seminars** in **GE Oil & Gas** (Rugby, UK-CV212NH) and **GE Power** (Baden, CH-5401) on the following objectives:
 - 24.08.2016 – Turbine Supervisory Systems
 - 11.08.2016 – Lube Oil Systems
 - 17.03.2016 – Steam Turbine Awareness (power Plant basics, thermodynamics, steam cycles, turbine architecture, main components, turbine auxiliaries and control)
 - 16.03.2016 – Last Stage Low Pressure Blade Lifetime Assessment
 - 02.03.2016 – Control and Determination of Steam Turbine Clearances
 - 18.02.2016 – Steam Turbine Material Selection and Specifications
 - 20.01.2016 – Bearing Design and Failure Mechanisms
 - 18.11.2015 – Turbine Overview
-
- (Feb. 2015 – Oct. 2015) **Training Seminars** in **ASLTOM Power UK** (Rugby, UK-CV212NH) and **ALSTOM Power (Schweiz) Ltd** (Baden CH-5401) on the following objectives:
 - 28.10.2015 – Mechanical Integrity Aspects of Last Stage Blades
 - 10.07.2015 – Gas Turbine Rotor Lifetime Assessment
 - 03.07.2015 – Retrofit Case Study
 - 03.06.2015 – Understanding Vibration Jumps
 - 29.04.2015 – Shaft Line Dynamics Measurement
 - 23.04.2015 – Mechanical Fatigue Data for Sub-Synchronous Vibration Protection of Nuclear Steam Turbine
 - 20.04.2015 to 30.04.2015 – Industrial Steam Turbine Rotordynamics
 - 08.04.2015 – Turbine Supervisory Systems
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- (Sep. 2013 - Feb. 2015) **Training Seminars** in **BorgWarner Turbo Systems Engineering GmbH** (Kirchheimbolanden DE-67292) on the following objectives:

a) Introduction to Product Development	g) Intellectual Property (Patents)
b) Development of Machine Balancing	h) Introduction to Noise and Vibration Harshness and Prev.Acoustics
c) Introduction to Advanced Engineering	i) Introduction to Materials Development and Structural Mechanics
d) Introduction Controlling	j) Introduction Basic Components Turbosystems
e) Introduction to Basic Develop. Performance	k) Talent Management System - Introduction
f) Introduction Testing	l) Introduction to Application Performance/Validation and Simulation
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12. Further Training/Studies/Education

- (01 Jul. 2002 – 31 Aug. 2002) Student trainee mechanical engineer in Agricultural Dairy Industry of Epirus DODONI SA. Ioannina 45110, Hellas
 - (01 Sep. 2006 – 30 Jun. 2008) Music studies of drums, Municipal Conservatory of Patras, Patras 26221, Hellas
 - (18 May 2009 – 18 Mar. 2010) Corporal of the Hellenic Army/Engineer Corps during the military service (obligatory for Greek citizens), specialized in minesweeping and destructions (Orestiada-Evros)
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13. Publications, Reports, and Further Written Work (2006-2020)

(Citations: **500**, *h* index: **14** – Excluding self citations of **ALL** authors, Source: [SCOPUS](#))

(Citations: **882**, *h* index: **15**, Source: [GOOGLE SCHOLAR](#))

• **Books**








- [B2] **A. Chasalevris**, Analytical Solutions in Journal Bearings: A Treatment with Algorithms for Rotor Dynamic Applications. Springer, NYC (US), (to be finalized by end of 2021)
- [B1]⁸ **A. Chasalevris**, Nonlinear Simulation of Defected Rotor-Bearing Systems - Methods for Detection of Rotor Crack and Bearing Wear. LAP Lambert Academic Publishing, Saarbrücken, Germany (2011) ISBN-10: 3844385975

• **International Journals (Total Impact Factor⁹ : 83.422 | Average Impact Factor: 3.627/article)**

- [J23] **L. Anastasopoulos** and **A. Chasalevris**, Bifurcations of limit cycles in rotating shafts mounted on partial arc and lemon bore journal bearings in elastic pedestals. **ASME Journal of Computational and Nonlinear Dynamics** (IF: **2.085 Q2**), (Accepted).
- [J22] **A. Chasalevris**, Stability and Hopf Bifurcations in Rotor-Bearing-Foundation Systems of Turbines and Generators. **Tribology International** (IF: **4.872, Q1**), 145, 2020, 106154
- [J21] **A. Chasalevris**, and **J.C. Louis**, Evaluation of Transient Response of Turbochargers and Turbines Using Database Method for the Nonlinear Forces of Journal Bearings. **Lubricants** (IF: **2.451 Q2**), 7, 78, 2019
- [J20] **A. Chasalevris** and **G. Guignier**, Alignment and Rotordynamic Optimization of Turbine Shaft Trains Using Adjustable Bearings in Real Time Operation. **Proc. IMechE Part C: Journal of Mechanical Engineering Science** (IF: **1.762 Q2**), 0(0), 2019, pp. 1-21
- [J19] **A. Chasalevris** and **F. Dohnal**, Improving Stability and Operation of Turbine Rotors Using Adjustable Journal Bearings. **Tribology International** (IF: **4.872 Q1**), 104, 2016, Pages 369-382, doi: 10.1016/j.triboint.2016.06.022
- [J18] **A. Chasalevris**, An investigation on the Dynamics and Stability of High Speed Systems Using Analytical Floating Ring Bearing Models. **International Journal of Rotating Machinery** (IF: **0.811 Q3**), Vol. 2016, 2016, Article ID 7817134
- [J17] **A. Chasalevris**, Finite Length Floating Ring Bearings: Operational Characteristics Using Analytical Methods. **Tribology International** (IF: **4.872 Q1**), (94) 2016, pp. 571-590
- [J16] **A. Chasalevris**, Analytical Evaluation of the Static and Dynamic Characteristics of the Three-Lobe Bearing with Finite Length. **ASME Journal of Tribology** (IF: **2.045 Q2**), 137, 2015 art. No. 041701-1.
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