Curriculum vitae

INFORMAȚII PERSONALE

Octavian Thor Pleter

EXPERIENȚA PROFESIONALĂ

1986–1990 **inginer stagiar**
Întreprinderea de Construcții Aeronautice, Brașov (România)

1990–1992 **inginer cercetare**
Institutul Politehnic București, București (România)

1992–1996 **Asistent universitar**
Universitatea Politehnica din București, București (România)

1993–Prezent **Director general**
IDM Kennedy Group Co. SRL, București (România)

1996–2008 **Șef de lucrări**
Universitatea Politehnica din București, București (România)

2000–2010 **Director academic**
Fundația IDM Universitatea Româno-Britanică, București (România)

2004–Prezent **Managing partner**
Brainbond - Pleter's Business Management, București (România)

2008–2011 **Cercetător**
Agenția Spațială Română (ROSA), București (România)

2009–2012 **Conferențiar universitar**
Universitatea Politehnica din București, București (România)

2012–2016 **Conferențiar universitar, Prodecan**
Universitatea Politehnica din București, București (România)

2016–2020 **Conferențiar universitar, Decan**
Universitatea Politehnica din București, București (România)

2020–Prezent **Conferențiar universitar**
Universitatea Politehnica din București, București (Romania)

EDUCAȚIE ŞI FORMARE

1976–1980 **Bacalaureat**
Liceul Gheorghe Lazăr, București (România)

1980–1986 **Inginer mecanic - specializarea Aeronave**
Institutul Politehnic București, București (România)

1997–2002 **Master of Business Administration**
The University of Manchester, Manchester (Regatul Unit)

1992–2005 **Doctor în inginerie aerospațială**
Universitatea Politehnica din București, București (România)

2002–2008 **Doctor în științe economice (management)**
Academia de Științe Economice, București (România)

COMPETENȚE PERSONALE

Limba(i) maternă(e): română

Limbile străine

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C2	C2	C2	C2	C2
germană	B1	B1	B1	B1	B1
franceză	B2	B2	B1	B1	B1
italiană	B2	B2	B2	B2	B2
rusă	A1	A1	A1	A1	A1
cehă	A1	A1	A1	A1	A1

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine - Grila de auto-evaluare

Competențe organizaționale/manageriale

- experiență de 27 de ani ca director general al unei firme (IDM Kennedy) care s-a dezvoltat de la zero și care cuprinde în prezent cca. 250 de angajați și are o cifră de afaceri de cca. 30 mil. lei
- experiență de 10 ani ca rector al unei universități particulare (Universitatea Româno-Britanică din București)
- experiență de 4 ani ca prodecan al Facultății de Inginerie Aerospațială
- experiență de 4 ani ca decan al Facultății de Inginerie Aerospațială

Competențele digitale

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat	Utilizator experimentat

Competențele digitale - Grilă de auto-evaluare

ANEXE

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Octavian Thor Pleter

Ex-Dean Faculty of Aerospace Engineering University Politehnica of Bucharest	Graduated the National College Gh. Lazăr Bucharest (1980) and the Faculty of Aerospace Engineering of the University Politehnica of Bucharest, specialization Aircraft, major in Avionics (1986)
	MBA of the University of Manchester (2002)
	Multidisciplinary scientific researcher, with a wide scope of research in aerospace engineering
	Associate professor, responsible for the new programs of studies Air Navigation and Air Transport Engineering (since 2009)
	Cum Laude PhD in engineering sciences, in the field of aerospace engineering, with 20 years of experience in multidisciplinary optimizations in ATM and air navigation
	Author of important developments in TBO based on 4D flight trajectories and trajectory prediction
	Coordinator of multidisciplinary research projects (impact of volcanic ash on aircraft, calculation of the MH370 flight trajectory)
	Manager of 10 scientific research programs and of 5 successful business start-ups, a 2nd PhD in economic sciences, specialization management
	Expert in aeronautical safety
	Keynote speaker in a number of international conferences and conventions

Current Positions

Associate Professor of the Faculty of Aerospace Engineering, University Politehnica of Bucharest
CEO of IDM Kennedy Group

Previous Positions

Dean 2016-2020 of the Faculty of Aerospace Engineering, University Politehnica of Bucharest
Member of the Administration Board of the University Politehnica of Bucharest

Vice Dean 2012-2016 of the Faculty of Aerospace Engineering, University Politehnica of Bucharest
Academic Director of the British-Romanian University, Bucharest
Researcher of the Romanian Space Agency
Engineer at IAR Brașov

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Professional Associations

- **Fellow** of the Royal Aeronautical Society https://www.aerosociety.com/ since 2019
- **Associate Fellow** of the Royal Institute of Navigation https://rin.org.uk/ since 2018
- **National Contact Point** for Romania of the European Aeronautics Science Network (EASN) https://easn.net/ since 2018
- **Senior Member** of American Institute of Aeronautics and Astronautics (AIAA) www.aiaa.org since 2006
- **Member** of ICAO EUR-NAT VATF (International Civil Organization Europe and North Atlantic Volcanic Ash Task Force) www.paris.icao.int (2010)
- **Founder member** and **President** of the Alumni Politehnica Aerospace Engineering association, http://www.aero.pub.ro/wordpress/index.php/en/alumni-4/ since 2017
- **Founder member** of AirNav Board (2008-2017)
- **Founder member** of the Romanian Aeronautical and Astronautical Association (AAAR) since 2006, **director** of Aeronautical Department (2008-2016) http://www.aaar.ro/
- **Member** of Association of MBAs (AMBA) www.mba.co.uk (2002)
- **Founder member** and **elected president** of the Association for Personal Computers (ACP) (1990-1994)

Awards and Distinctions

- **Cum Laude** distinction for the PhD thesis in aerospace engineering sciences (2004)
- **Richey Medal 2017** awarded by the Royal Institute of Navigation
- **Elie Carafoli medal** and diploma for outstanding contributions to the Romanian aerospace engineering education (2000)
- **Aloft Group Award 2011** for excellence in aerospace engineering education
- Merit allowance of the University Politehnica of Bucharest (1999-2000, 2006-2007)

Specializations and Qualifications

- 2014 University Politehnica of Bucharest Auditor for Program of Studies
- 2008 Eurocontrol SAF-SOAM Course (Safety Occurences Analysis Method), Zagreb
- 2006 Manager in tourism services, tourism licence by the Romanian Ministry of Tourism
- 1999 Heating, Ventilation and Air Conditioning course, prof. Alexandra Drăgan, Los Angeles, CA, in cooperaration with University Politehnica of Bucharest
- 1991 Local Area Networks, Nova, University Politehnica of Bucharest
- 1982 Driving licence

- 1982 Flying school with the IS-28M2 motoglider, at Sibiu Airport
- 1980 Military service at UM01295, Mihail Kogălniceanu, Constanţa, in the rank of sergeant

Publications

A. Doctoral Theses

1. **O. T. Pleter** (2004): Optimizarea numerică simultană în managementul zborului şi al traficului aerian – Optimizarea Traiectoriilor 4D cu Algoritmi Genetici (Simultaneous Numerical Optimization in Flight and Traffic Management - 4D Trajectories Optimization with Genetic Algorithms), University Politehnica of Bucharest, Faculty of Aerospace Engineering, 346 pp.
2. **O. T. Pleter** (2007): Perfecţionarea Managementului Operaţional prin Automatizarea Posturilor de Lucru în Domeniul Serviciilor de Recreere (Improvements of Operations Management Through Workplace Automation in Leisure Services), Academia de Studii Economice din Bucureşti – the Bucharest University of Economic Studies, Faculty of Management, 248 pp.

B. Books

1. **O. T. Pleter**, I. B. Ștefănescu (2019): Air Radio Navigation – Lab Works, Editura Printech Bucharest, in print, 150 pp.

2. **O. T. Pleter**, I. B. Ștefănescu (2018): Radionavigație Aeriană – Îndrumar de Laborator (Air Radio Navigation – Lab Works), Editura Printech Bucharest, ISBN: 978-606-23-0905-3, 150 pp.

3. **O. T. Pleter** (2009): Introduction to Aerospace Engineering, Editura Universităţii Româno-Britanice Bucharest, ISBN: 978-606-8163-00-0, 300 pp.

4. **O. T. Pleter** (2006): Digital Avionics - Combinational and Sequential Circuits, Editura Universităţii Româno-Britanice Bucharest, ISBN: (10) 973-87669-5-8; (13) 978-973-87669-5-2, 100 pp.

5. **O. T. Pleter** (2005): Administrarea afacerilor - Ediţia a II-a, (Business Administration, 2nd Edition) Editura Cartea Universitară Bucharest, ISBN: 973-731-154-X, 564 pp.

6. **O. T. Pleter** (2005): Administrarea afacerilor - Vol. II, (Business Administration, Volume 2) Editura Universităţii Româno-Britanice Bucharest, ISBN: 973-86598-1-7, 378 pp.

7. **O. T. Pleter** (2004): Administrarea afacerilor - Vol. I, (Business Administration, Volume 1) Editura Universităţii Româno-Britanice Bucharest, ISBN: 973-86598-2-5, 162 pp.

8. **O. T. Pleter** (2001), Financial Management in High Inflation, A Master's Degree Dissertation, The Institute for Financial Management, Manchester, 136 pp.

9. C. Berbente, **O. T. Pleter**, S. Berbente (2000): Numerische Methoden, Theorie und Anwendungen (Numerical Methods, Theory and Applications), Editura Printech Bucharest, ISBN 973-652-239-3, 118 pp.

10. **O. T. Pleter**, C. Constantinescu (1995): Z80 în Spectrum, Seria Microprocesoare (Z80 in Spectrum, Microprocessors Series), Editura Militară, Bucharest, ISBN 973-32-0431-5, 192 pp.

11. C. Berbente, S. Zancu, S. Mitran, **O. T. Pleter**, C. Tataranu (1992): Metode numerice şi aplicaţii (Numerical Methods and Applications), Institutul Politehnic București, 168 pp.

C. Articles

1. **O. T. Pleter**, C. E. Constantinescu, B. I. Jakab (2016): Reconstructing the Malaysian 370 Flight Trajectory by Optimal Search, Journal of Navigation, Vol. 69, Issue 1, January 2016, Cambridge University Press, UK (Richey Medal 2017) WOS:000366289900001

2. M. Vlad, **O. T. Pleter** (2015): Aerospace Performance Factor Optimization", Review of the Air Force Academy, Vol. 30, Issue 3, 2015, pp. 101-106, Bucharest, DOI: 10.19062/1842-9238.2015.13.3.17

3. **O. T. Pleter**, C. E. Constantinescu (2014): Possible Trajectories of the Flight Malaysian 370, Plenary paper, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

4. A. G. Diaconu, V. Stanciu, **O. T. Pleter** (2014): Air Traffic Complexity Metric for En-route and Terminal Areas, UPB Scientific Bulletin Series D, Vol. 76, Iss. 1, 2014, pp. 13-24, , ISSN 1454-2358
http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full9d6_888843.pdf

5. **O. T. Pleter**, A. Necuta (2014): Base Turn Optimization, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

6. **O. T. Pleter**, G. Ursachi, R. E. Tudorica (2014): Advancements in Measuring Safety with the Aerospace Performance Factor, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

7. **O. T. Pleter**, B. I. Jakab (2014): Airport Apron Management Optimization, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

8. **O. T. Pleter**, C. E. Constantinescu (2014): De-conflicted 4D Trajectory Based Operations, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

9. A. G. Diaconu, **O. T. Pleter**, C. Berbente (2014): Air Traffic Complexity using AHP - Case study for LOMOS and NERDI sectors, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

10. D. Isvoranu, S. Danaila, **O. T. Pleter** (2013): Assessment of the effects of volcanic ash/dust clouds on aircraft safety, Selected Paper of 1st Global Conference on Environmental Studies (CENVISU-2013), 24-27 April 2013, Belek, Turkey

11. D. Isvoranu, S. Danaila, **O. T. Pleter** (2013): Assessment of the effects of volcanic ash/dust clouds on aircraft safety, Global Journal on Advances in Pure & Applied Sciences [Online]. 2013, 01, pp 626-631. Available from: http://www.world-education-center.org/index.php/paas

12. A. G. Diaconu, **O. T. Pleter**, V. Stanciu (2011): Reducing Fuel Consumption in Bucharest Terminal Area for Flight Using Standard Instrument Departure, AEROSPATIAL 2010, 20-21 October 2010, INCAS Bulletin, Vol. 3, Issue 2, 2011, ISSN 2067-8622, Bucuresti

13. B. Donciu, C. E. Constantinescu, **O. T. Pleter** (2011): A Case Study in Air Traffic Management Automation, UPB Scientific Bulletin Series D, Vol. 73, Iss. 3, 2011, pp. 55-70, ISSN 1454-2358 https://www.researchgate.net/publication/228458469_A_case_study_in_air_traffic_management_automation

14. B. Donciu, **O. T. Pleter** (2010): Free-flight vs. Centralized Air Traffic Management, AEROSPATIAL 2010, INCAS, Bucureşti, 20-21 Octombrie 2010, ISSN 2067-8622

15. D. Dimitriu, D. Munteanu, **O. T. Pleter** (2010): Assessing airport noise capacity through operational practices: Case-study CDA at Bucharest Henri Coanda Airport, The II SAE BRASIL INTERNATIONAL NOISE AND VIBRATION CONGRESS, Florianopolis, Brazil, 17-19 October 2010

16. B. Donciu, **O. T. Pleter**, S. Galetuse (2010): Low Cost Hyperbolic Airport Surveillance System, 1st International Air Transport and Operations Symposium, ATOS 2010, Delft, the Netherlands, ISBN/EAN: 978-90-5623-082-1, 14-15 April 2010, DOI: 10.3233/978-1-60750-559-4-174

17. **O. T. Pleter**, C. E. Constantinescu, I. B. Stefanescu (2009): Objective Function for 4D Trajectory Optimization in Trajectory Based Operations, AIAA Guidance, Navigation, and Control Conference, Chicago, 10-13 August 2009

18. **O. T. Pleter**, D. C. Toncu, G. Toncu, V. Stanciu (2009): Air Pollution Monitoring and Modeling near M. Kogalniceanu Civil Airport in 2008, International Conference Dynamical Systems and Applications, Constanta, Romania, June 15-18, 2009, published in Analele Universitatii Ovidius Constanta, Seria Matematica, ISSN 1224-1784

19. I. G. Rosca, G. Moldoveanu, **O. T. Pleter**, C. Dobrin (2008): The Processual Programming Essentials – Criticism and New Options, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 2/2008 (519), pp. 3-8, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

20. G. Moldoveanu, I. G. Rosca, **O. T. Pleter** (2007): Improving Organizations By Replacing The "Mechanical" Model With The "Organic" One, Informatica Economica Review, nr. 11/2007, indexed DOAJ, Cat. B+, CNCSIS Cod 429, ISSN 1453-1305, ISSN 1842-8088, Bucureşti

21. G. Moldoveanu, **O. T. Pleter** (2007): Overtime - whereto?, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 9/2007 (514), pp. 3-6, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

22. G. Moldoveanu, **O. T. Pleter** (2007): Shrinking Bureaucracy, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 7/2007 (512), pp. 7-10, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

23. G. Moldoveanu, **O. T. Pleter** (2007): Multidisciplinary Optimization in Services Management, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 5/2007 (510), pp. 7-14, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

24. **O. T. Pleter**, I. B. Stefanescu, C. E. Constantinescu (2006): Simultaneous 4D Trajectory Optimization Using Genetic Algorithms, Proceedings of ICNPAA (International Conference on Non-linear Problems in Aviation and Aerospace) Budapest, 7 pp. 2006

25. G. Moldoveanu, **O. T. Pleter** (2006): Optimizarea multidisciplinară în managementul serviciilor (Multidisciplinary Optimization in Services Management), Simpozionul cu participare internaţională "Abordări moderne în managementul şi economia organizaţiei", Academia de Studii Economice, Bucureşti 23-24 Nov 2006, pp. 171-172

26. **O. T. Pleter**, C. E. Constantinescu (2005): A New Approach to Optimal Air Navigation, Proceedings, The 36-th International Scientific Simposium of METRA, Volume II, Bucharest, ISBN 973-0-03923-2 pp. 77-82

27. C. E. Constantinescu, **O. T. Pleter** (2005): Air Traffic Control Optimization Using Genetic Algorithms, Proceedings, The 36-th International Scientific Simposium of METRA, Volume II, Bucharest, ISBN 973-0-03923-2 pp. 21-26

28. **O. T. Pleter**, I. B. Stefanescu (2004): Simultaneous Flight and Traffic Management System, University Politehnica of Bucharest Scientific Bulletin, Series D: Mechanical Engineering, Vol. 66, Number 2-4, 2004, indexed INSPEC, Cat. B+, CNCSIS Code 102, ISSN 1454-2358, pp. 93-104

29. G. Moldoveanu, **O. T. Pleter** (2004): Capabilitate vs. performanţă managerială (Management Capability vs. Performance), Simpozionul cu participare internaţională "Abordări moderne în managementul şi economia organizaţiei", Academia de Studii Economice, Bucureşti, 16 Dec 2004

30. **O. T. Pleter**, I. B. Stefanescu (2003): The Baro-Geodetic Coordinate Frame in Air Navigation, University Politehnica of Bucharest Scientific Bulletin, Series D: Mechanical Engineering, Vol. 65, Number 1-4, 2003, indexed INSPEC, Cat. B+, CNCSIS Code 102, ISSN 1454-2358, pp. 155-164

31. S. Sidon, **O. T. Pleter** (1988): Sistem de achiziţie a datelor în anemometria cu laser aplicată la măsurarea turbulenţei încărcării unui motor cu piston antrenat (Data Acquisition System in Laser Anemometry Applied to Measuring the Turbulence of a Driven Piston Engine), Rev. Construcţia de Maşini nr. 9, pp. 523-528, Sep 1988

32. **O. T. Pleter** (1994): Cum au apărut viruşii de computer (How Did Computer Viruses Emerge), Revista PC Report, nr. 14, pp. 53-55, Nov 1994

33. **O. T. Pleter** (1994): Fenomenul Hacker (Hacker Phenomenon), Revista OPEN Tehnologia Informaţiei, nr. 2, pp. 53-55, Jul-Aug 1994

34. O. Pleter, **O. T. Pleter** (1993): Ţesături metalice şi table perforate pentru analiză granulometrică (Metal Nets and Punched Metal for Granulometry Analysis), Rev. Standardizarea nr. 8, 1993, pp. 1-12

35. I. Stiharu, C. Alexe, **O. T. Pleter**, C. E. Constantinescu (1991): On Interactive Simulation in Area Navigation, Proceedings, International Automatics Conference SAII 8, 1991, Bucharest

36. I. Stiharu, C. Alexe, **O. T. Pleter**, C. E. Constantinescu (1991): On Strap down Navigation Error's Boundary, Proceedings, International Automatics Conference SAII 8, 1991, Bucharest

37. I. Stiharu, C. Alexe, **O. T. Pleter**, C. E. Constantinescu (1991): On Predictive Control in Atmospheric Guidance, Proceedings, International Automatics Conference SAII 8, 1991, Bucharest

38. **O. T. Pleter**, R. Petcu (1987): CAD HC-85, Revista Modelism No 4, 1987, pp. 22-24

39. A. Gheorghiu, **O. T. Pleter** (1986): Nucleu grafic CAD pentru procesarea problemelor tratate prin MEF (CAD Graphic Kernel for FEM Problems Processing), Proceedings, National Conference INFOTEC 1986

40. **O. T. Pleter**, A. Gheorghiu (1986) : Baze de date de mari dimensiuni pentru calculatoarele Spectrum (Large Data Bases for Spectrum Computers), Proceedings, National Conference INFOTEC 1986

41. A. Gheorghiu, **O. T. Pleter** (1986): Implementarea unui preprocesor grafic pentru validarea reţelelor de tip MEF pe microcalculatoare personale (Implementation of a Graphic Pre-Processor to Validate FEM Networks on Personal Computers), Finite Element Seminar, INCREST Bucharest, 1986

42. L. Pascu, **O. T. Pleter** (1985): Program de calcul şi trasare pe masa de desen a desfăşuratelor pieselor îndoite şi ambutisate pentru ROMBAC 1-11 (Calculus and Tracing Software on Plotting Table of the Metal Bending and Forming of Parts of ROMBAC 1-11 Aircraft), National Students Scientific Conference, Timişoara, 1985

43. D. Radulescu, L. Tudor, **O. T. Pleter** (1985): Inteligenţa artificială în creaţia ştiinţifică - aplicaţie în limbajul PROLOG (Artificial Intelligence in Scientific Creativity), Proceedings, 4th National Symposium on Informatics, INFO Iaşi 1985

D. Plenary / Key Note Presentations

1. **O. T. Pleter**, C. E. Constantinescu (2019): De-Conflicted 4D Trajectory Based Operations Optimization in ATM, Air Traffic Management Workshops, 19 December 2019, Maastricht Upper Area Control Centre

2. **O. T. Pleter**, C. E. Constantinescu (2019): Contrails simulation and impact study, minimization of negative impact by 4D Trajectory Optimization. CO_2 and NOx emissions simulation and minimization by 4D Trajectory Optimization, Air Traffic Management Workshops, 19 December 2019, Maastricht Upper Area Control Centre

3. **O. T. Pleter**, C. E. Constantinescu (2019): Aviation safety and security improvements by 4D Trajectory Optimization and by Big Data Al Algorithms, Air Traffic Management Workshops, 19 December 2019, Maastricht Upper Area Control Centre

4. **O. T. Pleter**, C. E. Constantinescu (2018): ADS-B and ADS-C communication in the light of digitalisation, keynote at Automation, Digitalisation and Cyber – new challenges for Human Factors in complex organisations, 27-28 September 2018, University of Glasgow

5. **O. T. Pleter**, C. E. Constantinescu (2018): Did we learn from MH370? Does Space Based ADS/B prevent a new MH370? Is there anything else that could be done? keynote at Automation, Digitalisation and Cyber – new challenges for Human Factors in complex organisations, 27-28 September 2018, University of Glasgow

6. **O. T. Pleter**, C. E. Constantinescu (2017): Malaysian 370 missing flight - Challenge in progress, keynote plenary presentation at Aerospace Europe CEAS 2017 Conference, Bucharest, 2-6 October 2017

7. **O. T. Pleter**, C. E. Constantinescu (2017): Unmanned Systems Safety and Security Risks and Mitigation from a Technical Perspective, keynote plenary presentation at the JARUS (Joint Authorities for Rulemaking on Unmanned Systems) Meeting, Bucharest, 27-31 March 2017

8. **O. T. Pleter**, C. E. Constantinescu (2016): Global Air and Maritime Co-operative Surveillance, International Conference of Aerospace Sciences AEROSPATIAL 2016, 26-27 October 2016, Bucharest, Romania

9. **O. T. Pleter** (2015): 4D Trajectory Based Noise Alleviation, Keynote plenary presentation at the Workshop on MANAGING AVIATION NOISE IMPACTS MAPPING FUTURE RESEARCH PRIORITIES, Iasi, Romania, 5-6th May 2015

10. **O. T. Pleter**, C. E. Constantinescu (2014): Possible Trajectories of the Flight Malaysian 370, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18-19 September 2014, Bucharest, Romania

11. **O. T. Pleter**, C. E. Constantinescu (2014): Suprasolicitări ale structurii aeronavei şi cum pot fi prevenite (Aircraft Structural Overloads and How to Prevent Them), Safety Demo 2014, Aerodrome Băneşti, România, 1-2 May 2014

12. **O. T. Pleter** (2013): Volcanic Activity Impact on Air Transport, Air Transport Conference, Bucharest, Romania, 5-6 June 2013

13. **O. T. Pleter** (2013): G2G 4DT Air Traffic Simulator, Central European Functional Airspace Block (FAB CE) Meeting, Zagreb, Croatia, 31 January 2013

14. **O. T. Pleter** (2012): Contingency Planning in Civil Aviation, Conferința Protecţia infastructurilor critice în sectorul transport , Bucharest, Romania, 24-25 May 2012

15. **O. T. Pleter** (2012): VNLA Method Applied to ATM Optimization, Air Navigation Convention, Bucharest, Romania, 29 March 2012

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16. **O. T. Pleter** (2012): Flight Safety in Volcanic Ash Contaminated Airspace, LAN Argentina Conference, Buenos Aires, 24 February 2012 (with participation of 200+ air transport professionals form all South American countries)

17. **O. T. Pleter** (2012): AMAN/DMAN/XMAN and Free Route, Maastricht Upper Area Control Workshop, Maastricht, the Netherlands, 27 January 2012 (with participation of Harald Matthes, Director of Maastricht Upper Area Control, and Frank Brenner, Director General of EUROCONTROL)

18. **O. T. Pleter** (2011): Air Traffic Management Solutions, ATM Solutions Seminar, ROMATSA, Bucharest, Romania, 19 December 2011 (with participation of Harald Matthes, Director of Maastricht Upper Area Control, and Frank Brenner, Director General of EUROCONTROL)

19. **O. T. Pleter** (2011): EUROCONTROL – Univ. Politehnica of Bucharest & ROMATSA Project Volcanic Ash Safety, presented in plenary at ICAO International Volcanic Ash Task Force IVATF, Montreal, 11-15 July 2011

20. **O. T. Pleter** (2011): Civil Aviation Oriented Aerospace Engineering, ICAO Next Generation of Aviation Professionals (NGAP) Conference, Bucharest, Romania, 28-30 June 2011

21. **O. T. Pleter** (2011): Scientific Research Resources and Potential Topics of Interest for Maastricht Upper Area Control and ROMATSA, Maastricht Upper Area Control – ROMATSA Meeting, MUAC, Maastricht, the Netherlands, 1 February 2011

22. **O. T. Pleter** (2011): Scientific Research Resources and Potential Topics of Interest for Maastricht Upper Area Control and ROMATSA, Maastricht Upper Area Control – ROMATSA Meeting, ROMATSA, Bucharest, Romania, 23 November 2010 (with participation of Harald Matthes, Director General of MUAC and Bogdan Donciu, Director General of ROMATSA)

23. **O. T. Pleter** (2006): Dutch-Romanian Connections in Aviation History, Seminar on Dutch-Romanian Co-operation in the Aerospace Sector, Bucharest, Romania, 14 Sep 2006

E. Patents

1. O. Pleter, **O. T. Pleter**, F. Simedrea (1999): Patent No. 114351, BOPI 12/1999, Process of Active Lead and Lead Batteries Recycling

2. O. Pleter, **O. T. Pleter**, F. Simedrea (1994): Patent No. 108255, BOPI 9/1994 Procedeu de obţinere a unui prealiaj de aliere a seleniului (Process of Obtaining a Pre Alloy for Selenium Alloys)

3. O. Pleter, **O. T. Pleter**, F. Simedrea (1994): Patent No. BOPI 6/1994, Procedeu şi instalaţie pentru realizarea electrometalurgică a aliajelor de PbCa şi AlCa (Process and Installation for Producing Lead Cadmium and Aluminium Cadmium Alloys by Electrometallurgy)

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F. Scientific and Technology Projects

Time Interval	Title, Object	Beneficiary	Contractor	Role
2016-2020	Platforme UAV (vehicule aeriene fara pilot uman) cu capabilități dedicate și infrastructură suport, pentru aplicații în misiuni de securitate națională (UAV Platforms and Support Infrastructure Dedicated to National Security Missions)	UEFISCDI, Romania	National Aerospace Institute INCAS - University Politehnica of Bucharest, Faculty of Aerospace Engineering	project manager, senior researcher
2016-2019	PROBA-3 Non-cooperative RV Experiment Phases C/D/E1	DEIMOS Engenharia, S.A. Lisbon, Portugal	University Politehnica of Bucharest, Research Centre of Aeronautics and Space	project manager, researcher
2014-2015	Aerospace Performance Factor (APF) V2.0 Software Implementation Specifications	ALOFT Aviation Consulting Limited, Dublin, Ireland	Pleter's Business Management	project manager, senior expert
2013-2014	Aerospace Performance Factor (APF) V2.0 Research Report - Analysis and Functional Design Enhancements for APF Version 2.0	ALOFT Aviation Consulting Limited, Dublin, Ireland	Pleter's Business Management	project manager, senior expert
2012-2014	Airport Platform Optimizer Project (APO)	Signature Flight Support Corporation, Orlando, FL, USA	University Politehnica of Bucharest, Faculty of Aerospace Engineering	senior researcher
2011-2012	Remote and Virtual Tower – ATC Project	ROMATSA (Romanian Air Traffic Services Administration)	-	expert
2010-2011	Ash Safety - Studies on the Measurement and the Effects of the Volcanic Origin Particles in Suspension in the Atmosphere on the Safety of Aircraft Contract 10-110764-C, 25 June 2010	EUROCONTROL, Brussels, Belgium	University Politehnica of Bucharest, Research Centre of Aeronautics and Space	project manager, senior researcher
2008-2011	Genetic Algorithms Applied to the Optimization of the Aircraft 4D Trajectories, Contract	Romanian Government, National Research Contract, "Partnerships 2008" Grants Program	Consortium: - the Romanian Space Agency, - the University Politehnica of Bucharest - Research Centre of Aeronautics and Space - the National Institute for	project manager, senior researcher

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			Aerospace Research "Elie Carafoli"	
2005-2006	Explosions Monitoring System in the Black Sea, Contract 15R/2005	the National R&D Program Security, Contracting Authority: the Romanian Space Agency	Technical Military Academy	researcher
2003	Concept and Design of a System to Recover the Meteorological Module, GPS and the Rocket Final Stage by Parachute, Contract Aerospaţial 1322	Romanian Government, National Research Contract	the University Politehnica of Bucharest - Research Centre of Aeronautics and Space	researcher
2003	Multi-stage Meteorological Rocket RM20, Technical Report, , contract 58/2002	Contracting Authority: the Romanian Space Agency	the University Politehnica of Bucharest - Research Centre of Aeronautics and Space	researcher
2002	Calculations of the Aerodynamic Characteristics of the Anti-hail Rocket RAG 82, Contract 1622/2001	Romanian Government, “Relansin” National Research Program	the University Politehnica of Bucharest – Faculty of Aerospace Engineering	researcher
2001-2002	Mathematical and Numerical Modelling of the Ventilation Flow Inside Buildings, Contract 814/2000	Romanian Government, “Relansin” National Research Program	the University Politehnica of Bucharest – Faculty of Aerospace Engineering	researcher
1992	Air navigation electronic maps AIP Romania, Contract Induss 1992	The Civil Aviation Department (Departamentul Aviatiei Civile) via ROMATSA (Romanian Air Traffic Services Administration)	Induss (private company)	project manager
1991	System for automated generation of air navigation maps based on a database, Contract Induss 1991	ROMATSA (Romanian Air Traffic Services Administration)	Induss (private company)	aeronautics expert
1989-1990	Software for 3D Computer Aided Design, Research Contract	Memory Circuits and	The Politechnic Institute of	project

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	IPB 31-9-16, 1989	Computer Parts Manufacturing Plant (Fabrica de Memorii Electronice şi Componente pentru Tehnica de Calcul), Timişoara , Romania	Bucharest, Faculty of Aeronautics (Institutul Politehnic din Bucuresti, Facultatea de Aeronave)	manager, software engineer
1987-1990	Electronic Visualisation System for the IAR-45 Remote Piloted Vehicle, Research Contract IPB 31-7-4, 1987	The Aeronautical Manufacturing Company (Întreprinderea de Construcţii Aeronautice) Ghimbav Braşov, Romania	The Politechnic Institute of Bucharest, Faculty of Aeronautics (Institutul Politehnic din Bucuresti, Facultatea de Aeronave)	project manager, researcher
1986-1988	Software Library for Mathematic and Scientific Calculus for the TIM-S Microcomputer, Research Contract IPB 31-6-2, 1986	The Institute of Computers and Information Technology Timişoara, Romania	The Politechnic Institute of Bucharest, Faculty of Aeronautics (Institutul Politehnic din Bucuresti, Facultatea de Aeronave)	project manager, software engineer
1984-1985	Software to calculate and plot bended and drawn parts for ROMBAC 1-11, Contract ASC 1/85	The Aircraft Company Bucharest (Întreprinderea de Avioane Bucureşti)	The Politechnic Institute of Bucharest, Faculty of Aeronautics (Institutul Politehnic din Bucuresti, Facultatea de Aeronave)	co-author

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G. Consultancy in Aeronautics

Time Interval	Title, Object	Beneficiary	Contractor	Role
2016	Tarom Flight 362G Incident of 17 January 2015 – Continuing Approach and Landing Below Weather Minima at Bucharest Henri Coanda International Airport (LROP)	Romanian Civil Aviation Authority	University Politehnica of Bucharest, Faculty of Aerospace Engineering	expert
2015-2018	Technical Expertise on the Learjet LJ60 Accident at Baneasa Airport 2006	National Company Bucharest Airports (CNAB)	Pleter's Business Management	expert
2014	Expertise on the Antonov An-2 Accident at Tuzla Airport 2010	ONV Law Attorneys Firm	-	expert
2012-2014	Prefeasibility and Feasibility Studies for the Development of the Aurel Vlaicu International Airport Bucharest	Louis Berger	Pleter's Business Management	expert
2012-2013	Next Aviation EASA Part-147 Maintaining Training and Examination – Romanian Civil Aviation Authority Approval Process	Next Aviation Training	-	expert, instructor
2010-2014	Technical Expertise on the Learjet LJ60 Accident at Baneasa Airport 2006	ROMATSA (Romanian Air Traffic Services Administration) and National Company Bucharest Airports (CNAB)	Pleter's Business Management	expert

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G. Authorized / Accredited Programs of Studies

Time Interval	Program	Status	Organizing University	Role
2013-	Master of Aerospace Engineering in English – Air Transport Engineering, 2 Years, 120 CP, 20 intake, graduates since 2016	Authorized in 2013, Accredited in 2016	University Politehnica of Bucharest, Faculty of Aerospace Engineering	program manager
2009-	Bachelor of Aerospace Engineering in English – Air Navigation, 4 Years, 240 CP, 60 intake, graduates since 2013	Authorized in 2009, Accredited in 2016	University Politehnica of Bucharest, Faculty of Aerospace Engineering	program manager
2001-2009	Bachelor of Business Administration, 3/4 Years, 180 CP, 80 intake, graduates between 2005-2009	Authorized in 2001	British-Romanian University of Bucharest	academic director

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Publications

A. Doctoral Theses

1. **O. T. Pleter** (2004): Optimizarea numerică simultană în managementul zborului şi al traficului aerian – Optimizarea Traiectoriilor 4D cu Algoritmi Genetici (Simultaneous Numerical Optimization in Flight and Traffic Management - 4D Trajectories Optimization with Genetic Algorithms), University Politehnica of Bucharest, Faculty of Aerospace Engineering, 346 pp.

2. **O. T. Pleter** (2007): Perfecţionarea Managementului Operaţional prin Automatizarea Posturilor de Lucru în Domeniul Serviciilor de Recreere (Improvements of Operations Management Through Workplace Automation in Leisure Services), Academia de Studii Economice din Bucureşti – the Bucharest University of Economic Studies, Faculty of Management, 248 pp.

B. Books

1. **O. T. Pleter**, I. B. Ștefănescu (2020): Air Radio Navigation – Lab Works, Editura Printech Bucharest, in print, 150 pp.

2. **O. T. Pleter**, I. B. Ștefănescu (2018): Radionavigație Aeriană – Îndrumar de Laborator (Air Radio Navigation – Lab Works), Editura Printech Bucharest, ISBN: 978-606-23-0905-3, 150 pp.

3. **O. T. Pleter** (2009): Introduction to Aerospace Engineering, Editura Universităţii Româno-Britanice Bucharest, ISBN: 978-606-8163-00-0, 300 pp.

4. **O. T. Pleter** (2006): Digital Avionics - Combinational and Sequential Circuits, Editura Universităţii Româno-Britanice Bucharest, ISBN: (10) 973-87669-5-8; (13) 978-973-87669-5-2, 100 pp.

5. **O. T. Pleter** (2005): Administrarea afacerilor - Ediţia a II-a, (Business Administration, 2nd Edition) Editura Cartea Universitară Bucharest, ISBN: 973-731-154-X, 564 pp.

6. **O. T. Pleter** (2005): Administrarea afacerilor - Vol. II, (Business Administration, Volume 2) Editura Universităţii Româno-Britanice Bucharest, ISBN: 973-86598-1-7, 378 pp.

7. **O. T. Pleter** (2004): Administrarea afacerilor - Vol. I, (Business Administration, Volume 1) Editura Universităţii Româno-Britanice Bucharest, ISBN: 973-86598-2-5, 162 pp.

8. **O. T. Pleter** (2001), Financial Management in High Inflation, A Master's Degree Dissertation, The Institute for Financial Management, Manchester, 136 pp.

9. C. Berbente, **O. T. Pleter**, S. Berbente (2000): Numerische Methoden, Theorie und Anwendungen (Numerical Methods, Theory and Applications), Editura Printech Bucharest, ISBN 973-652-239-3, 118 pp.

10. **O. T. Pleter**, C. Constantinescu (1995): Z80 în Spectrum, Seria Microprocesoare (Z80 in Spectrum, Microprocessors Series), Editura Militară, Bucharest, ISBN 973-32-0431-5, 192 pp.

11. C. Berbente, S. Zancu, S. Mitran, **O. T. Pleter**, C. Tataranu (1992): Metode numerice şi aplicaţii (Numerical Methods and Applications), Institutul Politehnic București, 168 pp.

C. Articles

1. **O. T. Pleter**, C. E. Constantinescu, B. I. Jakab (2016): Reconstructing the Malaysian 370 Flight Trajectory by Optimal Search, Journal of Navigation, Vol. 69, Issue 1, January 2016, Cambridge University Press, UK (Richey Medal 2017) WOS:000366289900001

2. M. Vlad, **O. T. Pleter** (2015): Aerospace Performance Factor Optimization", Review of the Air Force Academy, Vol. 30, Issue 3, 2015, pp. 101-106, Bucharest, DOI: 10.19062/1842-9238.2015.13.3.17

3. **O. T. Pleter**, C. E. Constantinescu (2014): Possible Trajectories of the Flight Malaysian 370, Plenary paper, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

4. A. G. Diaconu, V. Stanciu, **O. T. Pleter** (2014): Air Traffic Complexity Metric for En-route and Terminal Areas, UPB Scientific Bulletin Series D, Vol. 76, Iss. 1, 2014, pp. 13-24, , ISSN 1454-2358 http://www.scientificbulletin.upb.ro/rev_docs_arhiva/full9d6_888843.pdf

5. **O. T. Pleter**, A. Necuta (2014): Base Turn Optimization, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

6. **O. T. Pleter**, G. Ursachi, R. E. Tudorica (2014): Advancements in Measuring Safety with the Aerospace Performance Factor, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

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9. A. G. Diaconu, **O. T. Pleter**, C. Berbente (2014): Air Traffic Complexity using AHP - Case study for LOMOS and NERDI sectors, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18 - 19 September 2014, Bucharest, Romania

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13. B. Donciu, C. E. Constantinescu, **O. T. Pleter** (2011): A Case Study in Air Traffic Management Automation, UPB Scientific Bulletin Series D, Vol. 73, Iss. 3, 2011, pp. 55-70, ISSN 1454-2358 https://www.researchgate.net/publication/228458469_A_case_study_in_air_traffic_management_automation

14. B. Donciu, **O. T. Pleter** (2010): Free-flight vs. Centralized Air Traffic Management, AEROSPATIAL 2010, INCAS, Bucureşti, 20-21 Octombrie 2010, ISSN 2067-8622

15. D. Dimitriu, D. Munteanu, **O. T. Pleter** (2010): Assessing airport noise capacity through operational practices: Case-study CDA at Bucharest Henri Coanda Airport, The II SAE BRASIL INTERNATIONAL NOISE AND VIBRATION CONGRESS, Florianopolis, Brazil, 17-19 October 2010

16. B. Donciu, **O. T. Pleter**, S. Galetuse (2010): Low Cost Hyperbolic Airport Surveillance System, 1st International Air Transport and Operations Symposium, ATOS 2010, Delft, the Netherlands, ISBN/EAN: 978-90-5623-082-1, 14-15 April 2010, DOI: 10.3233/978-1-60750-559-4-174

17. **O. T. Pleter**, C. E. Constantinescu, I. B. Stefanescu (2009): Objective Function for 4D Trajectory Optimization in Trajectory Based Operations, AIAA Guidance, Navigation, and Control Conference, Chicago, 10-13 August 2009

18. **O. T. Pleter**, D. C. Toncu, G. Toncu, V. Stanciu (2009): Air Pollution Monitoring and Modeling near M. Kogalniceanu Civil Airport in 2008, International Conference Dynamical Systems and Applications, Constanta, Romania, June 15-18, 2009, published in Analele Universitatii Ovidius Constanta, Seria Matematica, ISSN 1224-1784

19. I. G. Rosca, G. Moldoveanu, **O. T. Pleter**, C. Dobrin (2008): The Processual Programming Essentials – Criticism and New Options, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 2/2008 (519), pp. 3-8, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

20. G. Moldoveanu, I. G. Rosca, **O. T. Pleter** (2007): Improving Organizations By Replacing The "Mechanical" Model With The "Organic" One, Informatica Economica Review, nr. 11/2007, indexed DOAJ, Cat. B+, CNCSIS Cod 429, ISSN 1453-1305, ISSN 1842-8088, Bucureşti

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22. G. Moldoveanu, **O. T. Pleter** (2007): Shrinking Bureaucracy, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 7/2007 (512), pp. 7-10, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

23. G. Moldoveanu, **O. T. Pleter** (2007): Multidisciplinary Optimization in Services Management, Economie teoretica si aplicata / Theoretical and Applied Economics, nr. 5/2007 (510), pp. 7-14, indexed RePEc/DOAJ/EBSCO, Cat. B+, CNCSIS Code 832, ISSN 1841-8678, Bucureşti

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D. Plenary / Key Note Presentations

1. **O. T. Pleter**, C. E. Constantinescu (2018): ADS-B and ADS-C communication in the light of digitalisation, keynote at Automation, Digitalisation and Cyber – new challenges for Human Factors in complex organisations, 27-28 September 2018, University of Glasgow

2. **O. T. Pleter**, C. E. Constantinescu (2018): Did we learn from MH370? Does Space Based ADS/B prevent a new MH370? Is there anything else that could be done? keynote at Automation,

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3. **O. T. Pleter**, C. E. Constantinescu (2017): Malaysian 370 missing flight - Challenge in progress, keynote plenary presentation at Aerospace Europe CEAS 2017 Conference, Bucharest, 2-6 October 2017

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5. **O. T. Pleter**, C. E. Constantinescu (2016): Global Air and Maritime Co-operative Surveillance, International Conference of Aerospace Sciences AEROSPATIAL 2016, 26-27 October 2016, Bucharest, Romania

6. **O. T. Pleter** (2015): 4D Trajectory Based Noise Alleviation, Keynote plenary presentation at the Workshop on MANAGING AVIATION NOISE IMPACTS MAPPING FUTURE RESEARCH PRIORITIES, Iasi, Romania, 5-6th May 2015

7. **O. T. Pleter**, C. E. Constantinescu (2014): Possible Trajectories of the Flight Malaysian 370, International Conference of Aerospace Sciences AEROSPATIAL 2014, 18-19 September 2014, Bucharest, Romania

8. **O. T. Pleter**, C. E. Constantinescu (2014): Suprasolicitări ale structurii aeronavei şi cum pot fi prevenite (Aircraft Structural Overloads and How to Prevent Them), Safety Demo 2014, Aerodrome Bănești, România, 1-2 May 2014

9. **O. T. Pleter** (2013): Volcanic Activity Impact on Air Transport, Air Transport Conference, Bucharest, Romania, 5-6 June 2013

10. **O. T. Pleter** (2013): G2G 4DT Air Traffic Simulator, Central European Functional Airspace Block (FAB CE) Meeting, Zagreb, Croatia, 31 January 2013

11. **O. T. Pleter** (2012): Contingency Planning in Civil Aviation, Conferința Protecţia infastructurilor critice în sectorul transport , Bucharest, Romania, 24-25 May 2012

12. **O. T. Pleter** (2012): VNLA Method Applied to ATM Optimization, Air Navigation Convention, Bucharest, Romania, 29 March 2012

13. **O. T. Pleter** (2012): Flight Safety in Volcanic Ash Contaminated Airspace, LAN Argentina Conference, Buenos Aires, 24 February 2012 (with participation of 200+ air transport professionals form all South American countries)

14. **O. T. Pleter** (2012): AMAN/DMAN/XMAN and Free Route, Maastricht Upper Area Control Workshop, Maastricht, the Netherlands, 27 January 2012 (with participation of Harald Matthes, Director of Maastricht Upper Area Control, and Frank Brenner, Director General of EUROCONTROL)

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