

Associate Professor Eng Cătălin CIOACĂ, PhD



Cătălin CIOACĂ is Associate Professor at the Department of Management and Military Sciences, Faculty of Aeronautical Management from "Henri Coadă" Air Force Academy, Romania. Mr. Cioacă received his Ph.D. in 2014 in Engineering and Management from Transilvania University, Braşov. His doctoral thesis was titled "Research on security risk management in the aeronautical systems".

The over 40 scientific papers, 10 books and book chapters published by publishing houses in the country and abroad, 12 research-development projects as project director or member of the research team are some of the author's achievements in the field of risk management, using multidisciplinary approaches, such as: stochastic analysis and modeling, real options analysis, systems engineering, decision support systems, strategic management or security of socio-technical systems. Currently, Mr. Cioacă coordinates the postgraduate program "Conflict Management and Negotiation Strategies".

WORK EXPERIENCE

<ul style="list-style-type: none"> • 15.02.2018 – present 	
<ul style="list-style-type: none"> • Name and address of employer 	„Henri Coandă” Air Force Academy, 160 M. Viteazul, Braşov
<ul style="list-style-type: none"> • Department 	Management and Military Science
<ul style="list-style-type: none"> • Position 	Associate Professor
<ul style="list-style-type: none"> • The main activities and responsibilities 	Courses: Decision Support Systems, <i>Risk and Crisis Management</i> Scientific research: Grants, papers published in international scientific conferences and journals, PhD tutoring committee member, tutor at graduation and dissertation thesis
<ul style="list-style-type: none"> • 02.10.2017 – 03.12.2019 	
<ul style="list-style-type: none"> • Name and address of employer 	„Henri Coandă” Air Force Academy, 160 M. Viteazul, Braşov
<ul style="list-style-type: none"> • Department 	Management and Military Science
<ul style="list-style-type: none"> • Position 	Head of Department
<ul style="list-style-type: none"> • The main activities and responsibilities 	Educational management and operational leadership

• 01.10.2014 – 15.02.2018	
• Name and address of employer	„Henri Coandă” Air Force Academy, 160 M. Viteazul, Braşov
• Department	Fundamental Sciences and Management
• Position	Lecturer
• The main activities and responsibilities	Courses: <i>Weapons and military systems, Risk and crisis management</i> Scientific research: Grants, papers published in international scientific conferences and journals
• Teaching interests	Military systems, risk modelling and analysis, multi-criteria analysis
• 15.07.2010 – 30.09.2014	
• Name and address of employer	„Henri Coandă” Air Force Academy
• Department	Electronics and Informatics
• Position	Teaching Assistant
• The main activities and responsibilities	Course: <i>Weapons and military systems</i> Scientific research: Grants, papers published in international scientific conferences and journals, tutor at graduation thesis
• 01.09.2008 – 15.07.2010	
• Name and address of employer	„Henri Coandă” Air Force Academy
• Department	Educational Management
• Position	Head of Education Quality Assurance and Informatization of Education
• The main activities and responsibilities	Preparing the documentation in the field of ensuring the quality of education; coordinating and organizing the scientific events/ conferences; coordinating and organizing the development of institutional evaluation reports.
• 01.02.2002 – 15.04.2008	
• Name and address of employer	228 Air Defence Battalion, 42 Feldioarei, Braşov
• Department	Command, Training and Logistics
• Position	Commander
• The main activities and responsibilities	Training and command of the military battle team; adapting NATO operational concepts; human and technical resource planning and responsibilities in accordance with the new requirements.

EDUCATION AND RESEARCH

• 02.10.2017-24.11.2017	
• Name and type of educational institution	„Nicolae Bălcescu” Land Forces Academy <i>Military Science Faculty</i>
• Field/ occupational skills	<i>Crisis Management</i>
• Type of qualification/ diploma	Certificate
• Education level	<i>Postgraduate Course</i>

• 01.10.2010-20.12.2013	
• Name and type of educational institution	<i>Transilvania University from Braşov Faculty of Engineering Technology and Industrial Management</i>
• Field/ occupational skills	<i>Engineering and Management</i>
• Type of qualification/ diploma	Doctoral Diploma
• Education level	<i>3rd cycle programme</i>
• Topic	<i>Security Risk Management In Aviation Systems</i>
• 05.10.2009-30.10.2009	
• Name and type of educational institution	<i>„Carol I” National University of Defense, Bucharest Regional Department of Defense Resources Management Studies</i>
• Field/ occupational skills	<i>Program and Project Management</i>
• Type of qualification/ diploma	Certificate
• Education level	<i>Postgraduate Course</i>
• 01.10.2002-15.06.2004	
• Name and type of educational institution	<i>Transilvania University from Braşov Faculty of Economics</i>
• Field/ occupational skills	<i>Business Administration</i>
• Type of qualification/ diploma	Master degree
• Education level	<i>Master</i>
• 01.09.1996-31.07.2000	
• Name and type of educational institution	<i>„Henri Coandă” Aviation and Air Defense Academy</i>
• Field/ occupational skills	<i>Organization Management/ Air Defense Systems</i>
• Type of qualification/ diploma	Bachelor's degree
• Education level	<i>Undergraduate degree</i>

PUBLICATIONS

Articles in Peer-Reviewed Journals

1. Qualitative risk analysis methods in aviation projects, *Journal of Defense Resources Management (JoDRM)* 2 (1), 77-84;
2. Critical aviation infrastructures vulnerability assessment to terrorist threats, *Review of the Air Force Academy*, 1(23)/2013;
3. Extreme Risk Assessment Methodology (ERAM) in Aviation Systems, *Environmental Engineering & Management Journal (EEMJ)* 14 (6);
4. Aerial Infrared Thermography: A scalable procedure for photovoltaics inspections based on efficiency and flexibility, *Applied Mechanics and Materials* 772, 546-551;
5. An Analysis of the Cyber Dimension in Hybrid Operations, *Review of the Air Force Academy*, 2(40)/2019.

Proceedings

1. Analytical model for assessing the investments in connectivity for small airports, MATEC Web of Conferences, 2019;
2. The Role of Constructive Simulation in the Aviation Security Management, Scientific Research & Education in the Air Force-AFASES, 2018;
3. Applications of cost-benefit analysis in designing security strategies for aviation systems, 15th International Conference on Automatic Control, Modelling & Simulation (ACMOS13), 2018;
4. Using the Capital Asset Pricing Model in Information Security Investments, eLearning & Software for Education, 2018;
5. Solutions to improve the decision-making process for dynamic allocation of resources in military pre-conflict environments, MATEC Web of Conferences, 2017.

Books and Book Chapters

1. *MANAGEMENTUL RESURSELOR INFORMAȚIONALE ÎN CONDIȚII DE INCERTITUDINE*, „Henri Coanda” Air Force Academy Publishing House, 2015;
2. *MANAGEMENTUL RISCULUI EXTREM DE SECURITATE ÎN SISTEMELE AERONAUTICE*, „Henri Coanda” Air Force Academy Publishing House, 2015;
3. *RISK ASSESSMENT*, Editor V. Svalova, *NATURAL RISK MANAGEMENT IN MILITARY CRITICAL INFRASTRUCTURES: A MODEL FOR ACTIVE LEARNING*, InTech, 2017;
4. *SISTEME INFORMATICE PENTRU SUPT DECIZIONAL ÎN DOMENIUL SECURITĂȚII INFORMAȚIILOR*, „Henri Coanda” Air Force Academy Publishing House, 2017;
5. *SECURITATE SI MANAGEMENTUL CONFLICTELOR*, Editor, „Henri Coanda” Air Force Academy Publishing House, 2019;

Projects

1. *Sistem aerian multi-agent cu stație de sol mobilă pentru managementul informațiilor (MASIM)*, The National Authority for Scientific Research, Romania supported this work – CNCS-UEFISCDI: with PNII-PT-PCCA-2013-4, July 2014 – June 2016;
2. *Platformă Modulară Aeriană pentru Monitorizare Atmosferică Inteligentă*, The National Authority for Scientific Research, Romania supported this work – CNCS-UEFISCDI: with PN-III-P2-2.1-PED-20161972, MAPIAM project, January 2017 – June 2018;
3. *Realizarea unui program de simulare a sistemului de conducere a focului GUN*STAR NIGHT din cadrul complexului antiaerian 2x35 mm Oerlikon*, Research and Development Sectorial Plan, Romanian Ministry of Defence, 2017;
4. *Sistem decizional suport pentru managementul riscurilor naturale în infrastructurile militare critice (RiNaMiC)*, Research and Development Sectorial Plan, Romanian Ministry of Defence, 2016.