



# GENERAL JONAS ŽEMAITIS MILITARY ACADEMY

## EXPERTS GUIDE



### Prof. dr. Svajonė Bekešienė

Research Group  
on Logistics and  
Defence Technology  
Management

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#### Education:

- Ph. D. in physical sciences of computer science specialty direction (P 000; 09 P; P 175). Institute of Mathematics and Informatics (2008).
- M. Sc. in mathematics, Vilnius University (1993).

**Biography:** Svajonė BEKEŠIENĖ is Professor of the Research Group on Logistics and Defence Technology Management at Lithuanian Military Academy (LMA). Till 2007, she was the Head of the Laboratory of Mathematical Modelling at the LMA. During the last decade, she worked on the following research projects supported by the Ministry of National Defence of the Republic of Lithuania: *The Creation of Workstations for Motorized Arms Officer* as a creator of the computer program for battlefield visibility analysis, implementation and training; *Leadership and Its Impact on Leadership Development Commander* as a creator of the computer program for establishing cadet-leader skill level. From 2014 to 2016, she was leading a research group of ten scientists for the research project *Modelling and Characterization of New Possible Potentially Explosive Materials in Theoretical and Experimental Research Methods*. From 2020 to 2022 Lithuanian Science Council: Research grant for the research project 'Application of Innovative Non-Interventional Biomedical Research Methods for Stress Management in Group Dynamics' (Grant nr. S-MIP-20-59), researcher. From 2021-2024 Lithuanian Science Council: Research grant under Lithuania-Ukraine bilateral cooperation program in science and technology: 'Modelling the Role of Human Potential for National Defence in the Face of Contemporary Threats' (Grant nr. S-LU-22-71), Project manager- leader of the research group.

**Area of Expertise:** mathematical modeling and statistical data evaluation, human resources management, risk assessment and management, digital geographic data processing related to risk management.

**Research interest:** Mathematical simulation of military operations; mathematical modelling and computing of electronic structure and optical properties of explosive materials molecules; changes in the social environment assessment and prediction; strategic management and leadership; multi-purpose decision-making tasks; mathematical modeling; advances in theoretical mathematics and statistics (structural equation modeling); Fuzzy logic.

**Publications/ Projects:** She is the general chair of international scientific conference "Challenges to national defence in contemporary geopolitical situation" and is a member of scientific committee of ICMT conference. She serves as the associated editor for top quality Journal of Intelligent and Fuzzy Systems and is a member of various editorial boards of international journals. She is an author of two education books and publicized more than 50 papers. Her scientific work results are presented in the high-quality journals and at the leading conferences e.g. ESREL, IBIMA, etc.

#### Links to personal profiles:

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<https://scholar.google.com/citations?user=Glier8IAAAAJ&hl=en>