BARSAN GHITA

He performs a sustained research activity in the field of modeling military capabilities and elaborating decision aids. He is a member of the *Advanced Distributed Learning Working Group*, PfP Consortium of Defense Academies and Security Studies Institutes Geneva, Switzerland and of the Romanian-American work group commissioned with the development of the *Strategic Plan for Implementing Modeling and Simulation Techniques in the Romanian Army* and participated at a great number of research projects and contracts (obtained by competition) being either project manager, or member of the research team. In this project, he will be responsible for: optimizing JTRS specific organizational capabilities; implementing algorithms for assigning resources to JTRS systems, with applications in standardized environments; estimating interoperability and standardization requirements of the tactical communications system elements and the architecture; management tasks.

DOMAINS OF PROFICIENCY:

- Management of defense resources.
- Modeling and simulating technical elements and military operations.
- Management of projects and data acquisition systems.
- Mathematical probabilities and statistics.

SIGNIFICANT RESULTS:

- Member of various commissions involved in measurements, experiments and homologations of military equipment.
- Development of software applications for optimizing the decision-making process using operational research methods.
- Application of the game theory in order to establish the optimum course of action on the tactical battlefield.
- Optimization of the resources repartition using linear programming methods.

PUBLISHED PAPERS:

1. **Barsan Gh.** et al, *Standardizing Instruments and Psyhopedagogical Methods in E-learning*, the 4th International Conference New Challenges in the Military Sciences 2006, 07-08th November 2006, Zrinyi Miklos National Defense University Budapest, Hungary, ISBN 1416-1487.
2. **Barsan Gh.,** Babos A., Sfarlog B., *Aspects of the Relationship Between Technical Requirements and the Quality of Learning Management Systems in Advanced Distributed Learning*, the International Science and Engineering Conference Machine-Building and Technosphere of the XXI Century, September 11-16th 2006, Sevastopol, Ukraine, vol. IV, pp. 151-155, ISBN 966-7907-20-1.
3. **Barsan Gh.,** Miclaus S., Bechet P., Oancea R., *A Practical Guide on Minimal Requirements of the Learning Management Systems Functions Specific to the Highly Standardized Educational Environment*, the International Science and Engineering Conference Machine-Building and Technosphere of the XXI Century, September 11-16th 2006, Sevastopol, Ukraine, vol. IV, pp. 155-159, ISBN 966-7907-20-1.
4. **Barsan Gh.,** Adrianescu A., *The Advanced Distributed Learning Capabilities in the Romanian Army Education and Training System*, Scientific Journal of the Land Forces Academy, no. 1 (19), 2005, pp. 215-220, ISSN 1224-5178.

5. **Barsan Gh.,** *Modeling the Capabilities of a Military Technical System Using the Operational Availability Concept*, Scientific Journal of the Land Forces Academy, no. 2 (18), pp. 119-133, 2004, ISSN 1224-5178.