

SOFTWARE DEVELOPMENT WORKS

- A symbolic computation software to assist computations on abstract Lie groups developed as a toolbox for MAPLE 9.5., 2003; (with student Terres-Torriti, M.)
 - Torres-Torriti, M., Michalska, H., “A software package for Lie algebraic computations”, *Society of Industrial and Applied Mathematics (SIAM) Review*, Vol. 47, No. 4., 2005, pp. 722-745.
- A set of algorithms for multi-sensor multi-target tracking and target recognition:
 - IMM-JVC Algorithms (with student Jarry, B.);
 - IMM-JPDA Algorithms (with student Hadzagic, M.)

The algorithms were implemented and tested on the Knowledge Based System for Airborne Surveillance at Lockheed Martin Canada Inc. and became a part of the airborne surveillance software on the Canadian Patrol Frigate.