



JAGIELLONIAN UNIVERSITY
IN KRAKÓW

NAVIGATION INNOVATIVE SYSTEM

P-427

A novel mathematical algorithm for route/path planning and monitoring, navigational software was created by researchers of the Jagiellonian University.



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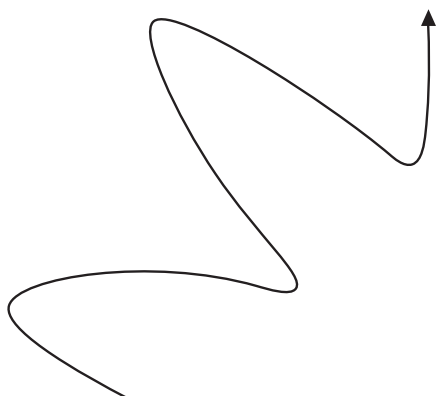
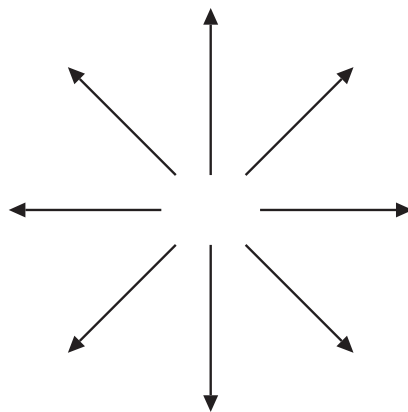
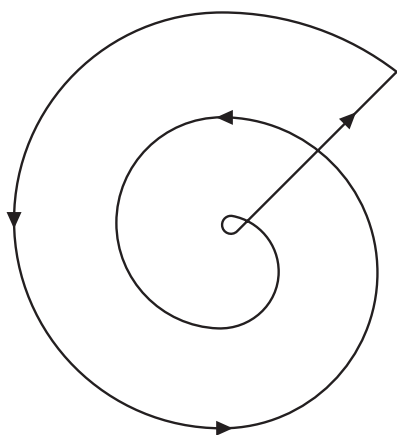
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The offer is an innovative mathematical approach based on area partition by time optimized trajectories. It offers new models based on wind/tidal stream/river current in marine/air (drone) navigation and trajectory planning, making use of perturbation (winds/currents/streams) instead of proceeding against them.

The algorithm improves officially recommended solutions, e.g. the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual (London, 2013), reducing time of operation/task and energy/fuel usage.

Application: route/path planning and monitoring, navigational software, navigational-maneuvring simulators, UAV, drones, underwater gliders, marine/air navigation, search and rescue operations, detecting oil pollution at sea or fire over terrain, area monitoring (patrolling) by drones, simplified method for practical applications.



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