

COL Steven D. Fleming, Ph.D.



Steven D. Fleming, Ph.D., is a retired U.S. Army colonel with command and staff experience in short-range air defense operations at the battalion, brigade and division levels. He also has operational combat experience with Joint and NATO staffs, twice deploying in support of Operation Enduring Freedom. He served as the Deputy Head of the Department of Geography and Environmental Engineering at the United States Military Academy (West Point, NY). In this capacity, he performed duties in educational leadership, institutional governance, organizational management, applied research and teaching. Academically, Dr. Fleming served as an Academy Professor of Geospatial Information Science, specializing in: (1) dynamic mapping of coastal regions; (2) emerging terrestrial, airborne and space-based image collection systems; (3) applications of geospatial technologies for national defense (military operations, homeland security, and disaster management); and (4) online, blended education/training using mobile devices. He has taught numerous courses including Physical Geography, Remote Sensing, Photogrammetry, Surveying, Geographic Information Systems, Cartography, Military Geospatial Operations, Advanced Topics in Geography and the Environment, and Advanced Independent Studies in GIS.

As Professor of the Practice of Spatial Sciences at the University of Southern California, COL [R] Fleming serves as the lead faculty for the USC online Graduate Certificate in Geospatial Intelligence (GEOINT) Program. He teaches remote sensing and other courses in the USC Graduate Programs in Geographic Information Sciences and Technology and serves as a thesis advisor for the M.S. in Geographic Information Science and Technology Program, as well as teaching geospatial intelligence courses in the SSI undergraduate program. He serves on the USC Military Affairs Committee under the direction of the Office of the Provost.

Read [“Military Test Site Characterization and Training Future Officers—An Integrated Terrain Analysis Approach”](#) by COL [R] Steven Fleming, Eric V. McDonald and Steven N. Bacon in *Military Geosciences and Desert Warfare: Past Lessons and Modern Challenges* (Spring Science+Business Media; New York 2016).

Read [“Strengthening the ‘Geo’ in GeoINT”](#) by Lt. Col. Chris Oxendine and COL [R] Fleming in the Fall 2015 issue of *NGA Pathfinder*.

Read [“GIS applications for military operations in coastal zones”](#) by S. Fleming, T. Jordan, M. Madden, E.L. Usery, R. Welch, in *ISPRS Journal of Photogrammetry and Remote Sensing* 64 (2009) 213-222.

Read [Chapter 57 – The Role of GIS in Military Strategy, Operations and Tactics, *Manual of Geographic Information Systems*](#) by Fleming, S., Brockhaus, J., and Hendricks, M., American Society for Photogrammetry and Remote Sensing (2009).

Read [“Feature identification from commercial satellite images for military and homeland security operations in coastal zones”](#) by Steven D. Fleming and Thomas R. Jordan, *Journal of Applied Remote Sensing* (2007).