DAVID LANTER PHD, GISP, CISA

46 Edelweiss Lane, Voorhees, NJ 08043 | 856.298.5635 | david.lanter@temple.edu

SUMMARY

Assistant Professor and Director of Fox School Temple University's Master of Science Program in IT Auditing and Cyber Security

Management consultant and enterprise geographic information systems (GIS) solution architect

Designer of innovative, practical, high-performance spatial decision support systems and secure GIS applications, data processing and maintenance capabilities

Leader of multifunctional software and data development teams

Mentor of requirements analysts, business process modelers, user experience and graphical user interface designers, software engineers, geospatial data developers, quality assurance testers, deployment specialists, user educators, information security specialists, and geographers

Fosters collaboration across multiple groups and ensures alignment of programs and continuous improvement meeting evolving business needs across a wide range of businesses, including: government, utilities, transportation, scientific research institutions, and consumer information product development companies

SKILLS

Project direction and technical leadership – ensuring objectives are met, while effectively coaching others in developing their skills and abilities

Excellence in budgeting, financial management and profitability, written and verbal communications

Client expectation management, issue identification and resolution - negotiating mutual agreements, with clear communication of status with appropriate frequency and details to all levels of an organization

Expert in software design and engineering, enterprise data architecture, geographic information systems, user-centered design, domain-driven design, service oriented-architecture, geo-spatiotemporal analysis, artificial intelligence, multi-dimensional statistics, scientific visualization, data quality assurance, IT auditing and cybersecurity

EXPERIENCE

2016-present Assistant Professor and Director of Graduate Program in Information Technology Auditing and Cyber Security and Assistant Professor, *Management Information Systems* Department, Fox School of Business, Temple University

2001-2016	Vice President, Cl	DM Smith
	0	Technical direction of large custom software and data development projects
	0	Quality assurance, information security and client management of applications development projects
	0	Technical sales: proposal writing, client presentations and sales closer fostering repeat business
	Information Ma	nagement Discipline Leader
	0	Technical knowledge management and sharing, and mentoring of firm's 285 technical specialists in applications development and geographic information systems sub-disciplines
	0	Annual R&D program project proposal recruitment, development, prioritization and project execution oversight and delivery
	0	Led redesign and development of the firm's technology knowledge sharing web portal supporting the firm's 22 technical, scientific, and engineering disciplines
	0	Technical publications, presentations, webinars and workshops
2003 - 2008	Adjunct Professor, Drexel University - Civil, Architectural and Environmental Engineering Department	
	Applications of (aught Introduction to Geographic Information Systems (GIS) and Geographic Information Systems courses to upper-division and graduate students
		lissertation and MS thesis committees, providing technical direction graduate students
1998-2001	Research Director	r, Rand McNally Corporation
	 Managed data re annual budget w 	esearch, compilation, and product quality assurance teams – \$3 million vith 45 staff
	\cdot Designed enterprise data warehousing system, consolidation of the firm's product development databases, and plug 'n play of vendor data for product development	
	 Led reengineering development sy 	ng of Commercial Atlas and Marketing Guide data and product stems
1996-98	Software Design I	Engineer, Microsoft Corporation
		ed quality assurance program for geographic data and geospatial lities for firm's geography, educational, game multi-media, and web
	 Invented Micros errors via the inf 	oft's product quality feedback capabilities for user submitted product ternet
	\cdot Managed produ	ct quality assurance teams - \$800,000 annual budget with 16 staff

1989-96	President, Geographic Designs Inc.
	 Invented first data provenance and lineage metadata processing capabilities, and awarded first patent in the field of Geographic Information Systems
	 Designed and led the development of advanced artificial intelligence and metadata- enabled geographic information system data quality and multi-dimensional data discovery and analysis systems
	 Provided custom applications and information management consulting services to City of Santa Barbara, Southern California Edison, U. S. Parks Service, Verizon (PCS PrimeCo Personal Communications), Federal Geographic Data Committee
1990-95	Assistant Professor, University of California – Santa Barbara, Dept. of Geography
	 Undergraduate and graduate courses in Geographic Information Systems, Digital Cartography, Digital Cartographic Production, and Cartographic Programming
	 Research in geospatial metadata and quality assurance for National Forest Service and National Science Foundation National Center for Geographic Information and Analysis
1986-87	Systems Analyst, Grumman Data Systems
	 Designed and developed functional specifications for US Air Force real-time, near real- time, and non-real-time Cartographic Applications for Tactical and Strategic Systems (CATSS) and guided prototype development
	 Designed and developed software for visualizing military assets and war game scenarios of limited nuclear war in European theater
1985	Software Engineer, Navigation Sciences
	 UNIX network administrator, and provided Geographic Information Systems data development support to developers of real-time nautical navigation systems

EDUCATION

2015	Master of Science – IT Auditing and Cybersecurity, Fox School of Business, Temple University
1989	Doctor of Philosophy – Geographic Information Processing, University of South Carolina
1986	Master of Arts – Geographic Information Systems Design, State University of New York at Buffalo
1984	Certificate – Multi-Objective Decision Analysis, Massachusetts Institute of Technology
1984	Certificate – Decision Analysis, Massachusetts Institute of Technology
1983	Bachelor of Arts with honors – Science, Technology and Society: Risk/Hazard studies, Clark University

Certified Information Systems Auditor (CISA), ISACA - *Passed CISA exam with score in top* 5% of those taking the exam

Certified Geographic Information Systems Professional (GISP), GIS Certification Institute

Certified Outdoor Leader, National Outdoor Leadership School

SERVICE

2020	Moderator of Association for Information Systems' Cybersecurity Expert Panel Discussion, 11/19/2020 Association for Information Systems' Student Scholarship Selection Committee – Committee Member "Cradle to Grave to Cloud" Session moderator, Urban and Regional Information Association (URISA) GIS-Pro 2019 Conference, October 1, 2019, New Orleans, Louisiana. "Cyber Security Expert Panel", Insurance Council of New Jersey's Annual Meeting & Conference, October 18,2019, Monroe Township, New Jersey.	
2019	Editorial reviewer – conference research papers: Twenty-fifth America's Conference on Information Systems, Cancun, Spring	
	2019, Reviewed "Technology Mediated Education: A Boon or Bane for Learning Outcomes of Students."	
	Twenty-fifth America's Conference on Information Systems, Cancun, 2019, Reviewed "How the Academics Qualification Influence the Students Learning Development."	
	PhD Examining Committee Member – Doctor of Education, Amy Lavin, April 3, 2019	
	AIS Student Chapter Leadership Conference (Spring) – Competition Judge in Software	
	Innovation Challenge	
	 BBA/MIS Curriculum Redesign (Spring) Application Development 1 Curriculum Redesign Group Capstone Curriculum Redesign Group 	
2005 - present	Urban and Regional Information Systems Association (URISA)	
	• GIS Leadership Academy – Committee Member, Author, Instructor	
	Curriculum Development Committee, Chairman and Member	
	Workshop Development Committee, Co-Chairman and Member	
	Industry Relations Committee, Member	

Faculty of the Program Award – Best teacher of the year 2018-2019 in IT Auditing and Cyber Security Master of Science degree program, *Fox School of Business and Management, Temple University*

Values in Action Award (multiple) - for excellence, integrity, initiative, shared commitment, and teamwork, *CDM Smith*

URISA Barbara Hirsch Special Service Award - URISA Leadership Academy Committee, Urban and Regional Information Systems Association

ESRI Award for Best Scientific Paper in Geographic Information Systems – Second place, American Society for Photogrammetry and Remote Sensing

Fulbright Scholarship, Portuguese National Center for Geographic Information (CNIG), U. S. Department of State's Bureau of Educational and Cultural Affairs

Research Fellowship, National Science Foundation's National Center for Geographic Information and Analysis

Outstanding Research Award, Sigma Xi Science Honor Society

Von-Laue Research Scholarship Award, Perspectives on Nuclear War, Clark University

The Distinguished Scholar Award, Fox School of Business, Temple University

Dean's Certificate of Excellence, Fox School of Business, Temple University

CONSULTANCY – MANAGEMENT INFORMATION SYSTEMS PROJECT DIRECTION, DESIGN, DEVELOPMENT AND INFORMATION ASSURANCE

CDM Smith – Federal Clients

Port of Beirut Explosion Damage Assessment Maps and Reports	Source data research, design, and development of damage location and assessment maps and reports that helped guide field teams through debris fields to locations of hospitals, schools, and utilities in support of recovery response to explosion at the Port of Beirut, Lebanon.
	Client: U.S. Agency for International Development
Port of Beirut Explosion Debris Relocation Maps	Sourced geospatial datasets and production of maps and that identified landfill sites to move debris to when clearing blocked

	streets for recovery equipment needed in response to explosion at Port of Beirut, Lebanon
Social Vulnerability Index (SoVI) Data Development Tool and Social Vulnerability	Debugged and updated social vulnerability index (SoVI) data development application and enterprise social vulnerability and environmental justice decision support application.
Analysis Tool Refresh	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Social Vulnerability Analysis – Puerto Rico Flood Hazard Pilot Project	Pilot study applying SoVI Data Development Tool and Social Vulnerability Analysis Tool to social vulnerability analysis of populations at risk in two coastal areas in Puerto Rico from existing and future predicted 500-year flood hazards.
	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
An Ontological Approach for Detecting Commonalities in US Army Corps of Engineers Civil Works Budget	Design of data structure, algorithm, and formal language ("ontology") to support metadata analysis of project work package budget justifications to detect, identify and explain patterns of commonalities and differences.
Justifications	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Flood Risk Management Financial Data Analysis	Data analysis and visualization techniques for evaluating performance of national flood risk management activities and expenditures.
	Client: U.S. Department of Defense, Army Corps of Engineers
National Bicycle Facility Inventory Database	Design specifications and quality assurance of Geographic Information System database.
	Client: U.S. Federal Highway Administration
Pojoaque Basin Regional	Information systems security plan and data integrity plan.
Water System's Geographic Information System	Client: U.S. Bureau of Reclamation
National Levee Database	System development plan, information assurance plan, and vulnerability testing for public facing geospatially web-based application for the National Levee Database.
	Client: U.S. Department of Defense, Army Corps of Engineers
National Levee Database	Improved user experience and interface, enhanced data model and high-performance software design to facilitate ease of use and public access to location, engineering and condition of the Nation's levee-based flood protection systems.
	Client: U.S. Department of Defense, Army Corps of Engineers

Social Vulnerability Analysis	Interactive web-based geospatial visualization and analysis tool for identifying social vulnerabilities of populations at risk from disasters and evaluating alternative civil engineering protection measures to protect populations at risk from storms, floods and other environmental hazards.
	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Social Vulnerability Data Development	Multi-dimensional statistical data development system for measuring social vulnerability of populations at risk from flooding and environmental hazards.
	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Navigation Data Explorer	Web-based geo-spatiotemporal data visualizer for identifying and resolving inconsistencies, redundancies, inefficiencies, and lack of transparency and understanding multi-year waterborne commerce information residing among the government's disparate data systems.
	Client: U.S. Department of Defense, Army Corps of Engineers, Navigation Data Center
Master Docks Plus	Web-based geospatially enabled data development and quality assurance system for enabling the government to manage information pertaining to the Nation's commercial shipping facilities.
	Client: U.S. Department of Defense, Army Corps of Engineers, Waterborne Commerce Statistics Center
Macro-Economic Visualization	Dynamic web-based interactive global map viewer for running alternative spatial equilibrium models based on changes in US waterborne transportation costs and viewing resulting impacts on global grain commerce
	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Enterprise Data Integration	Unification of U. S. Army Corps of Engineers disparate performance management, real-estate management, financial management, project management, maintenance management information systems for an integrated asset management database able to meet the government's needs.
	Client: U.S. Department of Defense, Army Corps of Engineers, Institute for Water Resources
Disaster Decision Support	Hurricane debris removal status tracking map production system for daily White House briefings.

Environmental assessment system for reviewing public assistance project funding requests.

Client: Federal Emergency Management Administration (FEMA)

CDM Smith – Municipal and Regional Clients

Security Architecture & System Security Plan	Guided design of cybersecurity architecture and application security testing of container-based cloud software as a service system being developed for use by US water/sewer utilities to reduce sewage overflows into waterways and meet EPA regulations.
	Clients: Municipal Water and Sewer Utilities
Cybersecurity Risk Management Procedures	Developed a cybersecurity risk control management plan and techniques for containing ransomware for consultants working with potentially infected GIS databases and files.
	Client: New Bedford, MA
Cybersecurity Risk Mitigation Plan	Cyber security risk mitigation plan to water utility consultants developing a broader risk control plan and management strategy.
	Client: Green Bay Wisconsin Water Utility
Facility Mapping System	Cybersecurity, system design, information security, and development of high-performance desktop and mobile web- based facility mapping and utility asset inventory management system for electric, communication, traffic, natural gas, aviation fuel, fire suppression, heating/cooling, water, sanitary sewer, storm-water sewer systems at John F. Kennedy and LaGuardia airports.
	Client: Port Authority of New York and New Jersey
Enterprise Data Architecture	An integrated data sharing hub for coordinating information exchange among the government's 16 agencies as they develop, add value, and use planning, lands and public works data.
	Client: Government of Hong Kong, Special Administrative Region, Housing, Planning and Lands Bureau
Maintenance Management System	Web-based computerized maintenance management system for enforcing the U.S. Environmental Protection Agency's National Pollution Discharge Elimination System regulations. Includes permitting, asset inventory, inspection tracking, citizen complaint tracking, and service request and maintenance management work orders.
	Client: Florida Department of Transportation, District 4

Master Planning Information System	Interactive graphical web-portal providing a common interface to facilitate sharing data, data updates, and software application programs to facilitate sewer-system pump station service area master planning.
	Client: City of Virginia Beach, Public Works Department
Facility Inspection System	Enterprise sewer inspection database and web-based visualization capabilities for monitoring inspection work status, understanding and tracking defects found during inspection, and relating defects with service requests and work orders
	Client: City of Wilmington, Public Works Department
Asset and Work Management System	Automated web-based work management system with key performance indicators to improve response performance of Water, Wastewater, Transportation, and Operations Divisions.
	Client: City of Wilmington, Public Works Department
Quality Assurance of Water, Sewer and High-pressure Fire Systems Data	Data sampling and quality assurance system for assuring the integrity and completeness of data conversion of city-wide water distribution, high-pressure fire, and sewer collection pipe infrastructure systems
	Client: City of Philadelphia, Philadelphia Water Department
Quality Assurance of Sewer System Data	Data sampling and quality assurance system for assuring integrity and completeness of data conversion of 5-borough city-wide sewer collection pipe infrastructure system
	Client: City of New York, Dept. of Environmental Protection
Sewer Inspection Data Protocol	Geospatially enabled interoperable inspection and defect data collection specification and protocol to aid in evaluating the 4,000 miles of sewers serving the 83 municipalities flowing into ALCOSAN's 90 miles of sewer interceptors.
	Client: Allegheny County Sanitary Authority (ALCOSAN)
Water Supply Early Warning System	Integrated monitoring, communication, and notification system used to provide advanced warning of water quality events to water suppliers and industrial intake operators in the Schuylkill and Delaware River watersheds
	Client: City of Philadelphia, Philadelphia Water Department
Capital Improvement Project Planning and Tracking	Integrated workflow management system for enabling the identification of needs, developing project proposals, prioritizing projects, managing the bid and award process, managing funding, and tracking actual versus estimated costs, inspecting and approving payments.
	Client: City of Philadelphia, Philadelphia Water Department

Road Trips ™	Commercial web-based teaching aid for helping teach teen drivers safe driving habits. Integrated multi-media learning environment with support for planning practice sessions, guiding practice drives, and logging and evaluating time in the car. <i>Client: State Farm Insurance Company</i>
Teen Driver Safety Website	Experimental web-based teaching aid for helping teach teen drivers safe driving habits. Integrating multi-media learning environment with support for planning practice sessions, guiding practice drives, and logging and evaluating time in the car. <i>Client: Children's Hospital of Philadelphia</i>
Website Evaluation System	Scientific research platform for conducting experiments to test the dose-response relationship and efficacy of web-based multi- media informational interventions. Includes test subject management, instrumentation and data collection capabilities. <i>Client: Children's Hospital of Philadelphia</i>

Rand McNally Corp.

Research Director	Led global, national and local products' geospatial data development and cartographic quality assurance teams
Enterprise Data Architecture	Integrated data and information product production system for pragmatically consolidating disparate product development environments and transitioning to plug-and-play corporate and commercial off the shelf datasets
Commercial Atlas Production System	Reengineered production macro-economic U.S. data and Commercial Atlas and Marketing Guide product development systems.

Microsoft Corp.

Quality Assurance Lead	Developed and directed geo-modeling quality assurance program for Microsoft's Interactive Media Division's Geography Business Unit's US and international product lines.	
Feedback Wizard	Map and data error reporting wizard for providing feedback from geography products to Microsoft over the internet. Metadata rich	
David Lanter PhD GISP CISA		Pa

Encarta Virtual Globe Encarta World Atlas Streets & Trips Trip Planner Streets Plus AutoRoute Express

BugWadi

error reports enabled bug reproduction and detection of data source defects and product production process flaws. Feedback wizard provided basis for Microsoft's "report-error" capability integrated within Microsoft's Office desktop products.

Server-side capabilities and front-end tools for reproducing errors and identifying quality issues in data sources from automated error reports sent in from desktop map product users via Feedback Wizard (see above).

Geographic Designs Inc.

President	Led sales, design and development of custom and commercial off the shelf artificial intelligence-based geospatially enabled products and management consulting services.
NSDI Explorer	Interactive geo-spatiotemporal data browsing of clearing house websites of the National Spatial Data Infrastructure (NSDI).
	Client: Federal Geographic Data Committee
Geographic Information Explorer	Object-oriented data visualization system for scientific visualization, exploration, and finding geo-spatiotemporal co-variation in disparate datasets.
	Client: Southern California Edison
Geolineus Versions 1.0 – 3.0	Enterprise data provenance and quality assurance and maintenance system for enterprise GIS.
	Clients: 75 National, state, local and international government agencies, universities, and private companies
FindArc/FindGrass	Computer network search spiders for geographic information system data discovery, metadata extraction and documentation
Multi-source Water Supply Management	Geospatial visualization for management of: reservoir water supply, reservoir water to recharge ground water supply, and alternative ground water pumping strategies with optimized tradeoff for seawater intrusion into aquifer.
	Client: City of Santa Barbara, Public Works Department
Grumman Data Systems	
Cartographic Applications for Tactical and Strategic Systems (CATSS)	Designed and wrote functional specifications and led development of proof of concept prototypes for reusable plug- and-play functional geospatial software library to support real- time, near real-time, and non-real time applications.
	Client: U.S. Airforce, Rome Airforce Development Center
Warfare Simulation	Developed desktop map-based application for visualizing limited nuclear war scenarios between USSR and NATO forces in European theater.

PRESENTATIONS

Professional Workshop	"Leadership Styles and Situational Leadership", Urban Regional Information System Association's Virtual GIS Leadership Academy, April 12-16, 2021
Invited Lecture	"Getting Started with the NIST Risk Management Framework", ISACA Philadelphia Chapter, Winter Webinar Invited Lecture, March 19, 2021
Invited Lecture	"Detecting Commonalities in Asset Management Budget Justifications", National Association of Business, Economics and Technology's 43rd Annual Meeting and Virtual Conference, October 23, 2020
Invited Lecture	"Geospatial Data Dissemination Risk and Control", Urban Regional Information System Association's 58th Annual Conference, September 30, 2020
Invited Lecture	"Risk and Control of Geospatial Data Dissemination", ISACA Philadelphia Chapter's Winter Webinar for Continuing Professional Education, February 21, 2020
Invited Lecture	"Business Continuity and Resiliency Planning", at GIS-Pro Conference of Urban Regional Information Systems Association, September 30, 2019, New Orleans, Louisiana
Invited Lecture	"Business Continuity and Disaster Recovery", Children's Hospital of Philadelphia's Information Technology Department's Cyber Security Month Celebration, October 24, 2019
Invited Lecture	"Information Technology Auditing and Cyber Security", Insurance Council of New Jersey's Annual Meeting & Conference, October 18, 2019, Monroe Township, New Jersey
Invited Lecture	"Data Modeling – Getting it Right", delivered to AIS - Temple University Student Group, March 15, 2019
Invited Lecture	"Data Provenance Metadata and Security by Design" delivered to ISACA Philadelphia Chapter, February 22, 2019
Invited Lecture	"Social Vulnerability Analysis for Spatial Decision Support", delivered at Temple University's GIS Day, November 14, 2018

PUBLICATIONS

Book Chapters – Peer Reviewed

Analysis of Asset Management Investments	Lanter, D.P., 2021. "Detecting Commonalities in Asset Management Budget Justifications", in Booker, J.D., Belloit, J.D., Myers, C.J. and Sigmond, N.C., National Association of Business, Economics and Technology 2020 Peer-Reviewed Proceedings of 2020 Virtual Conference. pp. 156-169.
Social Vulnerability eXplorer (SV-X)	Lanter, D.P., Durden, S., Baker, C., and Dunning, C.M., 2017 (August), "Social Vulnerability eXplorer (SV-X)", in Proceedings of the Coastal Structures & Solutions to Coastal Disasters Joint Conference; Coasts, Oceans, Ports and Rivers Institute (COPRI); American Society of Civil Engineers.
User Centered Design	Lanter, D.P. and R. Essinger, 2017 (March), "User Centered Design", in International Encyclopedia of Geography: People, the Earth, Environment and Technology, New York: John Wiley and Sons.
Geoprocessing, Workflows, and Provenance	Tullis, J.A., J.D. Cothren, D.P. Lanter, X. Shi, W.F. Limp, R.F. Linck, S.G. Young and T. Alsumaiti, 2015 (October), "Geoprocessing, Workflows, and Provenance", in <i>Remote Sensing Handbook:</i> <i>Remotely Sensed Data Characterization, Classification, and</i> <i>Accuracies</i> , edited by P. Thenkabail, Vol. 1., pp. 401-422, Boca Raton, FL: CRC Press.
Database Design	Lanter, D.P., 2008, "Database Design" in <i>Encyclopedia of Geographic Information Science, edited by K. Kemp,</i> Thousand Oaks: Sage Publications.
Data Conversion	Lanter, D.P., 2008, "Data Conversion" in <i>Encyclopedia of Geographic Information Science,</i> Edited by K. Kemp, Thousand Oaks: Sage Publications.
Data Quality Assurance	Lanter, D.P. 1998. "A Three-Part Approach to Geographic Data Quality Assurance." <i>Data Quality in Geographic Information,</i> Edited by Robert Jeansoulin and Michael F. Goodchild, Paris: Editions Hermes.
GIS for Sustainable Development	Michener, W.K., Lanter, D.P., and Houhoulis, P.F. 1997. "Geographic Information Systems for Sustainable Development: A Review of Applications and Research Needs." <i>Sustainable Development in the</i> <i>South Eastern Coastal Zone, pp.</i> 89-110 Editors: F. J. Vernberg et al., Columbia: University of South Carolina Press.

Map Quality	Lanter, D.P. and H. Veregin 1997. "Microsoft's University Map Bash: Map Errors, Core Concepts, Instructional Guide, and Student Exercise Workbook." Redmond: Microsoft Corp.
Spatial Analysis	Lanter, D.P. 1994. "Comparison of Spatial Analytic Applications of GIS", <i>Environmental Information Management and Analysis: Ecosystem to</i> <i>Global Scales</i> , Editors: Michener, W.K. et al., pp. 413-425, London: Taylor & Francis.
Database Design	Stein, R.S. and Lanter, D.P., 1990, "Considerations for Archaeology Database Design", <i>Interpreting Space: Geographic Information Systems</i> <i>and Archaeology</i> , Editors, K. Allen, S.W. Green, and E. Zubrow, London: Taylor and Francis.

Journal Articles – Peer Reviewed

Data Quality	Veregin, H. and Lanter, D.P. 1995. "Data Quality Enhancement Techniques in Layer-Based Geographic Information Systems." <i>Computers, Environment and Urban Systems</i> , Vol. 19, No. 1.
Metadata	Lanter, D.P. 1994. "A Lineage Metadata Approach to Removing Redundancy and Propagating Updates in a GIS Database", <i>Cartography</i> and Geographic Information Systems, Vol. 21, No. 2, pp.91-98.
Spatial Analysis	Giordano, A., Veregin, H. Borak E., and Lanter D., 1994, "A Conceptual Model of GIS-based Spatial Analysis." <i>Cartographica</i> , Vol. 31, No.4, pp. 44-57.
Data Management	Lanter, D.P., 1993, "A Lineage Meta-Database Approach Towards Spatial Analytic Database Optimization." <i>Cartography and Geographic Information Systems</i> , Vol. 20, No. 2, pp. 112-121.
Data Quality	Sorensen, P.A. and Lanter, D.P., 1993. "Two Algorithms for Determining Partial Visibility and Reducing Data Structure Induced Error in Viewshed Analysis", <i>Photogrammetric Engineering and</i> <i>Remote Sensing</i> , Vol. 59, No.7., pp. 1149-1160.
Data Quality	Lanter, D.P. and Veregin, H., 1992, "A Research Paradigm for Error Propagation in Layer-Based GIS." <i>Photogrammetric Engineering and</i> <i>Remote Sensing</i> , Vol. 58, No.6., pp.825-833.

MetadataLanter, D.P., 1991, "Design of a Lineage-Based Meta-Database for GIS",
Cartography and Geographic Information Systems, Vol. 18 No. 4, pp.
255-261.

Miscellaneous Publications

Geospatial Data Risk	Lanter, D. 2021. "Geospatial Data Dissemination Risk and Control", in Proceedings of GIS-Pro 2019, Urban Regional Information System Association, Des Plaines, Illinois. pp. 109-130
Map Quality	Lanter, D.P. and H. Veregin, 1997, Microsoft's University Map Bash: Map Errors, Core Concepts, Instructional Guide, and Student Exercise Workbook, Redmond: Microsoft Corp.
Patent	Lanter, D.P., 1993, "Method and Means for Lineage Tracing of a Spatial Information Processing and Database System." Patent No. 5,193,185. United States Dept. of Commerce Patent and Trademark Office. (Note: 1 st patent in the field of Geographic Information Systems)
Artificial Intelligence	Lanter, D., 1992, Intelligent Assistants for Filling Critical Gaps in GIS, Technical Publication 92-4, Santa Barbara: National Center for Geographic Information and Analysis.
Data Management	Lanter, D., 1992, GEOLINEUS: Data Management and Flowcharting for ARC/INFO, Technical Software Series S-92-2, Santa Barbara: National Center for Geographic Information and Analysis.
User Centered Design	Lanter, D.P. and Essinger, R., 1991, User-Centered Graphical User Interface Design for GIS, Technical Publication 91-6, Santa Barbara: National Center for Geographic Information and Analysis.
Data Quality	Lanter, D.P., 1990, <i>Lineage in GIS: The Problem and a Solution, Technical publication 90-6.</i> Santa Barbara: National Center for Geographic Information and Analysis.