

ANDREA DONNELLAN, PH.D.

Education

Ph.D., Geophysics, California Institute of Technology (1991)

M.S., Computer Science, University of Southern California (2003)

M.S., Geophysics, California Institute of Technology (1988)

B.S., Geology, Ohio State University, *with honors and distinction in geology and minor in math* (1986)

Bio

Andrea Donnellan has been employed in science research and related management positions since 1982. She thrives on building programs and developing new areas of research. Her work experience covers research, line, and program management. As Deputy Manager of the NASA Jet Propulsion Laboratory's Science Division, she oversaw 400+ scientists, postdocs, students, and administrative staff. Throughout her career, Donnellan has remained active in research both because of her scientific curiosity and because she feels that effective leadership requires insights into research methods and the challenges faced by researchers. Her experience leading NASA's Applied Sciences Program for Natural Disasters connected her to a wide range of institutions and lines of research. Mission experience includes pre-project scientist of DESDynI, which is now the NISAR mission, participation on review boards, and as a current member of the NISAR project team. For nearly 20 years Donnellan has managed GeoGateway (<http://geo-gateway.org>), previously called QuakeSim, a multi-institutional research team developing computational infrastructure for remote sensing data and studying earthquake processes. QuakeSim was awarded NASA's Software of the Year Award in 2012. Donnellan was instrumental in establishing the Southern California Integrated GPS Network, a \$20M initiative to use 250 continuous GPS stations to study earthquakes funded by NASA, the NSF, USGS, and WM Keck Foundation. This led to the establishment of NSF's Plate Boundary Observatory as a component of EarthScope, which is used by thousands of researchers and also by the US and California Geological Surveys to determine earthquake hazards and set earthquake insurance rates. She has authored over 100 publications, including book chapters, and is currently editor of the American Geophysical Union's (AGU) Earth and Space Science Journal. She was President of AGU's Nonlinear Geophysics Section, where she grew the section membership by 30% during her term. She has served on AGU's Ethics and Diversity and Inclusion Task Forces. She is Vice-Chair of the Board of Directors of UNAVCO, a non-profit university-governed consortium that facilitates geoscience research and education using geodesy. Donnellan is lead of NASA's Surface Topography and Vegetation Decadal Survey Incubation Study and is developing an airborne topographic imager to fly on NASA's Gulfstream aircraft as a separate Surface Topography and Vegetation Incubation Study. Donnellan has developed JPL's Near-Surface Airborne Instruments Laboratory (N-SAIL), which supports numerous Earth and planetary projects using small Uninhabited Aerial Systems (sUAS).

History of Employment

Jet Propulsion Laboratory (1993 – present)

Principal Research Scientist (2008 – present)

NASA HQ Program Area Co-Lead for Natural Disasters (2009–2011)

InSAR Lead Scientist/Pre-Project Scientist (2005–2007/2007–2008)

Deputy Manager, Science Division (2002–2005)

Deputy Manager, Exploration Systems Autonomy Section (2000–2002)

Supervisor, Data Understanding Systems Group (1999–2000)

Member Tech. Staff/Res. Sci., Satellite Geodesy and Geodynamics Systems Group (1993–1999)

California State Polytechnic University, Pomona Adjunct Professor, Lecturer Geosciences (2018–)

University of Southern California, Adjunct Asst. Prof. (Research) of Earth Sci. (1999–2015)

California Institute of Technology, Visiting Assoc., Seismological Laboratory (1995–1996)

NASA Goddard Space Flight Center, National Res. Council Postdoctoral Fellow (1991–1993)
California Institute of Technology (1986-1991) Grad. Research/Teaching Asst. (1986-1991/87-88)
Ohio State University (1983–1986)

Research Assistant, Institute for Polar Studies, Ohio State University (1983–1986)

Thin Section Laboratory Technician, Ohio State University (1983)

Geochemistry Group, Sohio Research and Development (1985)

Research Experience

Andrea Donnellan collects and analyzes geodetic data to model deformation of mechanical Earth processes and study cascading geohazards. She began her career in glaciology measuring and modeling the West Antarctic Ice Streams and Variegated Glacier in Alaska before moving to the study of crustal deformation processes and natural hazards using geodetic imaging. She has applied Interferometric Synthetic Aperture Radar (InSAR/UAWSAR), Global Navigation Satellite System (GNSS), and Structure from Motion (SfM) from small uninhabited aerial vehicles (sUAS) to studying the underlying dynamics of earthquake fault systems, plate boundaries, landslides, and wildfire/debris flows cascades. Understanding the data requires the use of numerical modeling, computational infrastructure, and pattern analysis, leading to Donnellan's overseeing the development of a science gateway and computational infrastructure to simplify access, analysis, and modeling of geodetic imaging data for researchers and disaster responders. She participated in the first field observations of the West Antarctic Ice Streams, produced some of the first research papers using GPS measurement that identified buried faults and earthquake potential, has been a UAWSAR investigator since its inception, led the first developments of computational infrastructure for integrating remote sensing into earthquake process research, and is now developing methods to rapidly collect, analyze, and interpret near surface airborne observations of topography and geomorphology. She has used NASA's UAWSAR platform to study earthquakes, landslides, wildfires, and debris flows. She leads JPL's Near-Surface Airborne Instruments Laboratory (N-SAIL) and is developing an imaging suite of visible and SWIR cameras for improved UAWSAR platform capability to study and respond to natural disasters. Embracing new technologies and seeing them through from being difficult to use and error prone to becoming operational and scientifically mainstream has been a strength through Donnellan's career.

Principal Investigator – Key Projects

Quantifying Uncertainty and Kinematics of Earthquake Systems (QUAKES-A) Analytic Center Framework (2020 – 2022)

Connecting Plate Boundary Processes to Surface Faulting using Geodetic Imaging (2017 – 2020)

UAWSAR Geodetic Imaging Principal Investigator (2009–2020)

GeoGateway for Analysis, Modeling, and Response Principal Investigator (2014 – 2019)

QuakeSim Principal Investigator (2002–2014)

Selected Honors (24 total)

QuakeSim 2.0: NASA Software of the Year Award (2012)

MUSES California Science Center Foundation, Woman of the Year (2006)

Women in Aerospace Award for Outstanding Achievement (2003)

Presidential Early Career Award for Scientists and Engineers (1996)

NASA Group Achievement Award for *Response to the 2015 Nepal Gorkha Earthquake* (2016)

NASA Group Achievement Award for *Response to the 2010 Gulf Oil Spill* (2011)

NASA Space Act Awards for software (2004 (3), 2005, 2009, 2012)

JPL Lew Allen Award for Excellence (2000)

Donnellan Glacier named by Advisory Comm. on Antarctic Names (2006)

Women at Work Medal of Excellence (2004)

Memberships

American Geophysical Union (1986–present)

Seismological Society of America (2000–2003, 2012, 2015–present)

IEEE Senior Member, and IEEE Geoscience and Remote Sensing Society (2016–present)

AAAS (2016–present)

Service

Andrea Donnellan has served on committees for NASA, the National Academy of Sciences, and the American Geophysical Union (AGU). She has been on the board of UNAVCO since 2018, a non-profit university-governed consortium, facilitates geoscience research and education using geodesy and is currently Vice-Chair. She was President of AGU's nonlinear Geophysics Focus Area from 2015–2016. Donnellan routinely mentors and host students, postdocs, and faculty. She taught a semester long upper level undergraduate and graduate class, *Introduction to Geodetic Imaging*, at California State Polytechnic University, Pomona in fall of 2018. Andrea Donnellan has briefed over 30 political and agency leaders and has given over 90 key invited talks at professional societies including as plenary speaker, at local society meetings and groups, to schools, and for university seminars and colloquia. She has had over 65 media appearances ranging from local to international outlets.

Professional Organizations and Service

American Geophysical Union

Diversity and Inclusion Task Force (2017 – 2018)

Nonlinear Geophysics Focus Group President-Elect/President/Past (13–14/2015–2016/17–18)

Ethics Task Force (2016 – 2017)

UNAVCO Board (2018 – present) *Vice-Chair* (2019–present)

APEC Cooperation on Earthquake Simulation: US Rep. to the International Science Board (2000–2017)

Natl. Academy of Sci: Comm. on Spatial Data Enabling USGS Strategic Sci. in the 21st Century (2010)

Editor

AGU Earth and Space Science Journal (2014 – present)

PAGEOPH Topical Vol. editor: "Multihazard Simulation and Cyberinfrastructure (2013–2014)

ISRN Geophysics, Editorial Board (2012 – 2014)

Editor ACES PAGEOPH special volume on earthquake simulations (2003)

Programmatic

NASA Earth Surface and Interior Program CORE Steering committee member (2015–2016)

NASA HQ Program Area Co-Lead for Natural Disasters (2009–2011)

Responsible for program elements and strategic direction of program

Represented NASA on the White House Subcommittee for Disaster Reduction

Ex-officio member representing NASA, National Academy of Sciences Disaster Roundtable

Convener

Analyzing Geodetic Imaging Data using GeoGateway (SSA, Seattle, WA, 2018)

NASA Earth Observing Missions Applications Workshop (Colorado Springs, 2010)

DESDynI Applications Workshop (Sacramento, 2008)

NSF/NASA Sponsored Community InSAR Workshop (Oxnard, 2003)

NSF/NASA Sponsored Autonomous Systems in Extreme Environments Workshop (1999)

Southern California Integrated GPS Network (SCIGN) network design workshops (1995 and 1997)

Certifications

FAA and NASA certified small UAS pilot and ground control operator

FAA Commercial instrument single engine land and sea plane pilot (~500 hours): Flights in the US, Mexico, Canada, and Africa

PADI Open Water scuba diver: Dives include California, Hawaii, Palau, Australia, and Caribbean

ANDREA DONNELLAN

Peer-Reviewed Publications

- [1] **Donnellan, A.**, G. Lyzenga, A. Ansar, C. Goulet, J. Wang, M. Pierce, 2020, Targeted High-Resolution Structure from Motion Observations over the M6.4 and M7.1 Ruptures of the Ridgecrest Earthquake Sequence, *Seismological Research Letters*.
- [2] Rundle, J.B., **A. Donnellan**, submitted, Nowcasting Earthquakes in Southern California with Machine Learning: Bursts, Swarms and Aftershocks May Be Related to Levels of Regional Tectonic Stress, *Earth and Space Science*.
- [3] **Donnellan, A.**, submitted, Remote Sensing of Deformation and Disturbance to Monitor and Assess Infrastructure in Urban Environments, in *Advances in Remote Sensing for Infrastructure Monitoring*, Singhroy, V., ed., Springer Remote Sensing/Photogrammetry.
- [4] Milliner, C. and **Donnellan, A.**, 2020. Using Daily Observations from Planet Labs Satellite Imagery to Separate the Surface Deformation between the 4 July M w 6.4 Foreshock and 5 July Mw 7.1 Mainshock during the 2019 Ridgecrest Earthquake Sequence. *Seismological Research Letters*, doi: 10.1785/0220190271.
- [5] Brandenberg, S.J., Stewart, J.P., Wang, P., Nweke, C.C., Hudson, K., Goulet, C.A., Meng, X., Davis, C.A., Ahdi, S.K., Hudson, M.B., **Donnellan, A.**, Lyzenga, G., Pierce, M., Wang, J., Winters, M.A., Delisle, M-P., Lucey, J., Kim, Y., Gallien, T.W., Lyda, A., Yeung, J.S., Issa, O., Buckreis, T., Yi, Z., in press, Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence, *Seismological Research Letters*, <https://doi.org/10.1785/0220190291>.
- [6] Share, P-E., P. Tábořík, P. Štěpančíková, J. Stemberk, T.K. Rockwell, A. Wade, J.R. Arrowsmith, **A. Donnellan**, F.L. Vernon, and Y. Ben-Zion, 2020, Characterizing the uppermost 100 m structure of the San Jacinto fault zone southeast of Anza, California, through joint analysis of geologic, topographic, seismic and resistivity data, *Geophysical Journal International*.
- [7] Ponti, D.J., J.L. Blair, C.M. Rosa, K. Thomas, A.J. Pickering, S. Akciz, S. Angster, J-P. Avouac, J. Bachhuber, S. Bacon, S. Bennett, K. Blake, S. Bork, B. Brooks, T. Bullard, P Burgess, C. Chupik, T. Dawson, M. DeFrisco, J. Delano, S. DeLong, J. Dolan, **A. Donnellan**, C. DuRoss, T. Ericksen, E. Frost, G. Funning, R. Gold, N. Graehl, C. Gutierrez, E. Haddon, A. Hatem, J. Helms, J. Hernandez, C. Hitchcock, P. Holland, K. Hudnut, K. Kendrick, R. Koehler, O. Kozaci, T. Ladinsky, R. Leeper, C. Madugo, M. Mareschal, J. McDonald, D. McPhillips, C. Milliner, D. Mongovin, A. Morelan, J. Nevitt, M. O'Neal, B. Olson, M. Oskin, S. Padilla, J. Patton, B. Philibosian, I. Pierce, C. Pridmore, N. Roth, D. Sandwell, K. Scharer, G. Seitz, D. Singleton, B. Smith-Konter, E. Spangler, B. Swanson, J.T. Jobe, J. Treiman, F. Turner, A. Williams, X. Xu, J. Zachariasen, J. Zimmerman, R. Zinke, submitted, Documentation of surface fault rupture and ground deformation features produced by the Ridgecrest M6.4 and M7.1 earthquake sequence of July 4 and 5, 2019, *Seismological Research Letters*.
- [8] Heflin, M., **A. Donnellan**, J. Parker, G. Lyzenga, A. Moore, L. Grant Ludwig, J. Rundle, J. Wang, M. Pierce, 2020, Automated Estimation and Tools to Extract Positions, Velocities, Breaks, and Seasonal Terms from Daily GNSS Measurements: Illuminating Nonlinear Salton Trough Deformation, *Earth and Space Science*.
- [9] Donnellan, A., Y. Lou, C. Padgett, A. Tanner, B. Hawkins, J. Parker, A. Ansar, M. Heflin, J. Green, R. Muellerschoen, 2019. Improving UAVSAR Results with GPS, Radiometry, and QUAKES Topographic Imager, *IEEE Aerospace Conference*, Big Sky, Montana, 2019.
- [10] Rundle, J.B., Luginbuhl, M., Khapikova, P., Turcotte, D.L., **Donnellan, A.** and McKim, G., Nowcasting Great Global Earthquake and Tsunami Sources. *Pure and Applied Geophysics*, pp.1-10, <https://doi.org/10.1007/s00024-018-2039-y>

- [11] Rundle, J.B., Giguere, A., Turcotte, D.L., Crutchfield, J.P. and **Donnellan, A.**, 2018. Global Seismic Nowcasting with Shannon Information Entropy. *Earth and Space Science*, <https://doi.org/10.1029/2018EA000464>
- [12] **Donnellan, A.**, Green, J., Ansar, A., Muellerschoen, R., Parker, J., Tanner, A., Lou, Y., Heflin, M., Arrowsmith, R., Rundle, J., Ben-Zion, Y., DeLong, S., Grant Ludwig, L., 2018, July. Geodetic Imaging of Fault Systems from Airborne Platforms: UAVSAR and Structure from Motion. In *IGARSS 2018-2018 IEEE International Geoscience and Remote Sensing Symposium* (pp. 7878-7881). IEEE.
- [13] **Donnellan, A.**, J.W. Parker, M.B. Heflin, G.A. Lyzenga, L. Grant Ludwig, J.B. Rundle, J. Wang, M. Pierce, 2018, Fracture Advancing Step Tectonics Observed in the Yuha Desert and Ocotillo Following the 2010 M7.2 El Mayor – Cucapah Earthquake, *Earth and Space Science*.
- [14] **Donnellan, A.**, J. Parker, C. Milliner, T.G. Farr, M. Glasscoe, Y. Lou, B. Hawkins, 2018, UAVSAR and Optical Analysis of the Thomas Fire Scar and Montecito Debris Flows: Case Study of Methods for Disaster Response using Remote Sensing Products, *Earth and Space Science*.
- [15] **Donnellan, A.**, J. Green, A. Ansar, R. Muellerschoen, J. Parker, A. Tanner, M. Heflin, R. Arrowsmith, J. Rundle, Y. Ben-Zion, S. DeLong, L. Grant Ludwig, 2018. Geodetic Imaging of Fault Systems from Airborne Platforms: UAVSAR and Structure from Motion. In *Geoscience and Remote Sensing Symposium (IGARSS)*, 2018 IEEE International (in press), IEEE.
- [16] **Donnellan, A.**, J. Green, J. Aletky, M. Glasscoe, R. Arrowsmith, Y. Ben-Zion, S. DeLong, 2017, Imaging of Earthquake Faults using Small UAVs as a Pathfinder for Air and Space Observations, *IEEE Aerospace Conference, Big Sky, Montana*, 2017.
- [17] **Donnellan, A.**, R. Arrowsmith, S. DeLong, 2017. Spatio-Temporal Mapping of Plate Boundary Faults in California using Geodetic Imaging, Special Issue "Advances in Lithological and Structural Mapping Using Earth Observation Data," K. Tansey and S. Grebby eds., *Geosciences*, 7, 15, doi:10.3390/geosciences7010015.
- [18] Rundle, J. B., D. L. Turcotte, **A. Donnellan**, L. Grant Ludwig, M. Luginbuhl, and G. Gong, 2016, Nowcasting earthquakes, *Earth and Space Science*, 3, doi:10.1002/2016EA000185.
- [19] Parker, J., M. Glasscoe, **A. Donnellan**, T. Stough, M. Pierce, J. Wang, 2016, Radar Determination of Fault Slip and Location in Partially Decorrelated Images, *Pure and Applied Geophysics*, 174: 2295, doi:10.1007/s00024-016-1403-z.
- [20] DeLong, S.B., **A. Donnellan**, D.J. Ponti, R.S. Rubin, G. Seitz, D.P. Schwartz, C.S. Prentice, T.E. Dawson, J.J. Lienkaemper, K.W. Hudnut, C. Rosa, A. Pickering, J.W. Parker, 2016, Tearing the terroir: Details and implications of surface rupture and deformation from the 24 August 2014 M6.0 South Napa earthquake, California, *Earth and Space Science*, 3, 416–430, doi:10.1002/2016EA000176.
- [21] **Donnellan, A.**, R. Arrowsmith, V. Langenheim, 2016, Select Airborne Techniques for Mapping and Problem Solving, in *Applied Geology in California* (book), eds. R. Anderson and H. Ferriz, Star Publishing, California, pp 541-566.
- [22] Rundle, J.B., J.R. Holliday, W.R. Graves, P.B. Rundle, B. Jeremic, S. Kunnath, R. Feltstykkt, K. Mayeda, D.L. Turcotte, **A. Donnellan**, 2016, A Practioner’s Guide to Operational Real Time Earthquake Forecasting, in *Applied Geology in California* (book), eds. R. Anderson and H. Ferriz, Star Publishing, California, pp 983-1003.
- [23] Kargel, J.S., G.J. Leonard, D.H. Shugar, U.K. Haritashya, A. Bevington, E.J. Fielding, K. Fujita, M. Geertsema, Evan S. Miles, Jakob Steiner, S. Bajracharya, G.W. Bawden, D.F. Breashears, B. Collins, M.R. Dhital, **A. Donnellan**, M.T. Glasscoe, D. Green, K. Hudnut, C. Huyck, W.W. Immerzeel, N.R. Khanal, D. Kirschbaum, P.D.A. Kraaijenbrink, D. Lamsal, LIU Shiyin, D. McKinney, T.H. Painter, M. Pleasants, A. Sakai, SHANGGUAN Donghui, J.M. Shea, A.B. Shrestha, D. Stumm, M. van der Kooij, M.R. Yoder, Eric Anderson, Alton Byers, E.

- Czyzowska-Wisniewski, Teresa L. Evans, Marie-Laure Geai, Deo Raj Gurung, R. Heijnen, A. Hilborn, JIANG Liming, Randall Jibson, A. Kääb, LV Mingyang, N.K. Nahirnick, NAN Zhuotong, S. Ojha, J. Olsenholler, K.C. Pratima, QI Yuan, B. Raup, D. Regmi, David R. Rounce, A. Shukla, K. Voss, WANG Xin, Brandon Weihs, David Wolfe, WU Lizong, YAO Xiaojun, and Neal Young, 2015, Geomorphic and geologic controls of geohazards induced by Nepal's 2015 Gorkha earthquake, *Science*, DOI: 10.1126/science.aac8353.
- [24] Yoder, M.R., K.W. Schultz, E.M. Heien, J.B. Rundle, D.L. Turcotte, J.W. Parker, **A. Donnellan**, 2015, The Virtual Quake earthquake simulator: A simulation based forecast of the El Mayor-Cucapah region and evidence of earthquake predictability, *Geophys. J. Int.*, 203, 1587-1604, doi: 10.1093/gji/ggv320.
- [25] Yoder, M.R., K.W. Schultz, E.M. Heien, J.B. Rundle, D.L. Turcotte, J.W. Parker, A. Donnellan, 2015, Forecasting earthquakes with the Virtual Quake simulator: Regional and fault-partitioned catalogs, in series International Association of Geodesy Symposia, doi: 10.1007/1345_2015_198.
- [26] Schultz, K.W., M.K. Sachs, M.R. Yoder, J.B. Rundle, D.L. Turcotte, E.M. Heien, A. Donnellan, 2015, Virtual Quake: Statistics, Co-seismic Deformations and Gravity Changes for Driven Earthquake Fault Systems, Chapter in series International Association of Geodesy Symposia, Springer Berlin Heidelberg, pp 1-9, 10.1007/1345_2015_134.
- [27] **Donnellan, A.**, L. Grant Ludwig, J.W. Parker, J.B. Rundle, J. Wang, M. Pierce, G. Blewitt, S. Hensley, 2015, Potential for a large earthquake near Los Angeles inferred from the 2014 La Habra earthquake, *Earth and Space Sci*, 2, 378–385, DOI: 10.1002/2015EA000113.
- [28] Schultz, K.W., M.K. Sachs, E.M. Heien, J.B. Rundle, D.L. Turcotte, and **A. Donnellan**, 2015, Simulating Gravity Changes in Topologically Realistic Driven Earthquake Fault Systems: First Results, *Pure and Applied Geophysics* special topical volume Multihazard Simulation and Cyberinfrastructure, 172, doi: 10.1007/s00024-014-0926-4.
- [29] Wei, S., J-P. Avouac, K.W. Hudnut, **A. Donnellan**, J.W. Parker, R.W. Graves, E. Fielding, Z. Liu, F. Cappa, and M. Eneva, 2015, The 2012 Brawley Swarm Triggered by Injection-Induced Aseismic Slip, *Earth and Planetary Science Letters*, 422, 115-125.
- [30] Wang, J., M. Pierce, **A. Donnellan**, J. Parker, 2015, Web Services for Dynamic Coloring UAVSAR Images, *Pure and Applied Geophysics*, Report Topical Volume, Multihazard Simulation and Cyberinfrastructure, 172, DOI: 10.1007/s00024-014-0941-5.
- [31] **Donnellan, A.**, J. Parker, S. Hensley, M. Pierce, J. Wang, J. Rundle, 2014, UAVSAR Observations of Triggered Slip on the Imperial, Superstition Hills, and East Elmore Ranch Faults Associated with the 2010 M 7.2 El Mayor - Cucapah Earthquake, *Geochemistry, Geophysics, Geosystems*, 15, doi: 10.1002/2013GC005120.
- [32] **Donnellan, A.**, J.W. Parker, J. Wang, Y. Ma, M. Pierce, 2014, Cloud Computing for Geodetic Imaging Data Processing, Analysis, and Modeling, *IEEE Aerospace Conference*, Big Sky, MT, March 2–7, 2014.
- [33] **Donnellan, A.**, B. Bills, J. Green, R. Goullioud, S. Jones, R. Knight, M. Underhill, J. Goguen, E.M. De Jong, A. Ansar, T. Scambos, P. Morin, B. Hallet, L. Thompson, A.S. Gardner, J. Ekholm, 2014, Studying Mountain Glacier Processes Using a Staring Instrument, *IEEE Aerospace Conference*, Big Sky, MT, March 2–7.
- [34] **Donnellan, A.**, 2014) Earth System Models, in *Encyclopedia of Remote Sensing*, Springer, EG Njoku (ed.), DOI 10.1007/978-0-387-36699-9, 146-150.
- [35] Glasscoe, M., J. Wang, M. Pierce, M.R. Yoder, J.W. Parker, M.C. Burl, T.M. Stough, R.A. Granat, **A. Donnellan**, J.B. Rundle, Y. Ma, G.W. Bawden, 2014, E-DECIDER: Using Earth Science Data and Modeling Tools to Develop Decision Support for Earthquake Disaster Response, *Pure and Applied Geophysics*, Report Topical Volume, Multihazard Simulation and Cyberinfrastructure, DOI: 10.1007/s00024-014-0824-9.

- [36] Parker, J., **A. Donnellan**, M. Glasscoe, G. Fox, M. Pierce, J. Wang, Y. Ma, 2014, Advantages to Geoscience and Disaster Response from the QuakeSim Implementation of Interferometric Radar Maps in a GIS Database System, Pure and Applied Geophysics, Report Topical Volume, Multihazard Simulation and Cyberinfrastructure, 127, 2295-2308, DOI:10.1007/s000024-014-0886-8.
- [37] **Donnellan, A.**, M. Glasscoe, J. Parker, R. Granat, M. Pierce, J. Wang, G. Fox, D. McLeod, J. Rundle, E. Heien, L. Grant Ludwig, 2013, Integrating Remotely Sensed and Ground Observations for Modeling, Analysis, and Decision Support, IEEE Aerospace Conference, March 2, 2013, Big Sky, MT, DOI: 10.1109/AERO.2013.6497163.
- [38] **Donnellan, A.**, J.J. Green, M. De Jong, R. Knight, B. Bills, R. Arrowsmith, High resolution imaging of dynamic surface processes from the ISS, IEEE Aerospace Conference, March 2, 2013, Big Sky, MT,
- [39] Committee on Spatial Data Enabling USGS Strategic Science in the 21st Century; Mapping Science Committee; Board on Earth Sciences and Resources; Division on Earth and Life Studies; National Research Council, R. Denaro (Chair), G. Brimhall, R. Chen, **A. Donnellan**, M. Emch, I. Jackson, J. Kelmelis, X. Lopez, D. Ojima, B. Scanlon, 2012, *Advancing Strategic Science: A Spatial Data Infrastructure Roadmap for the U.S. Geological Survey*, ISBN 978-0-309-26457-0, 132 pages.
- [40] Wang, J., M. Pierce, Y. Ma, G. Fox, **A. Donnellan**, J. Parker, and M. Glasscoe, 2012, Using Service-Based GIS to Support Earthquake Research and Disaster Response, *Computing in Science and Engineering*, 14, 21-30, September.
- [41] **Donnellan, A.**, J. Parker, M. Glasscoe, E. De Jong, M. Pierce, G. Fox, D. McLeod, J. Rundle, L. Grant Ludwig, 2012, A Distributed Approach to Computational Earthquake Science: Opportunities and Challenges, *Computing in Science and Engineering*.
- [42] **Donnellan, A.**, J. Parker, R. Granat, E. De Jong, S. Suzuki, M. Pierce, G. Fox, J. Rundle, D. McLeod, R. Al-Ghanmi, L. Grant Ludwig, 2012, QuakeSim: Integrated modeling and analysis of geologic and remotely sensed data, IEEE Aerospace Conference, Big Sky, Montana, March 3, 2012.
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- [45] Glasscoe, M.T., R.A. Granat, J.B. Rundle, P.B. Rundle, **A. Donnellan**, L.H. Kellogg, 2009, Analysis of emergent fault element behavior in Virtual California, *Concurrency and Computation: Practice and Experience*, 9999, 1532-0626.
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