

Publications

- Wang, K. and Kumar, P., **“Characterizing Relative Degrees of Clumping Structure in Vegetation Canopy using Waveform LiDAR”**, Remote Sensing of Environment, 2019
- Yan, Q., Le, P. V. V., Woo, D. K., Hou, T., Filley, T. R., & Kumar, P., **“Three-dimensional modeling of the coevolution of landscape and soil organic carbon”**, Water Resources Research, 2019
- Puthanveetil, A. Craig, and Y. Zhang, **“A Historical Big Data Analysis to Understand the Social Construction of Juvenile Delinquency in the United States”**, eScience, 2019.
- Marciano, V. Lemieux, M. Hedges, W. Underwood, M. Kurtz, M. Conrad, **“Re-Envisioning the MLS: Perspectives on the Future of Library and Information Science Education”**, Advances in Librarianship, Emerald Publishing, 2018
- Marciano, V. Lemieux, M. Hedges, W. Underwood, M. Kurtz, M. Conrad, **“Archival records and Training in the Age of Big Data”**, Re-envisioning the MLS: Perspectives on the Future of Library and Information Science Education, Emerald Publishing, 2018
- Marciano, M. Kurtz, G. Jansen, J. Milosch, A. Hull, **“Museums, Archives, and Universities-Structuring Future Connections with Big Data”**, Big Data in the Arts and Humanities: Theory and Practice, CRC Press, 2018
- W. Thomas, B. Galewsky, G. Jansen, S.P. Satheesan, R. Marciano, S. Bradley, J. Lee, L. Marini, K. McHenry, **“Petabytes in Practice: Working with Collections as Data at Scale”**, Workshop on Cyberinfrastructure and Machine Learning for Digital Libraries and Archives, JCDL, 2018
- S. Satheesan, J. Alameda, S. Bradley, M. Dietze, B. Galewsky, G. Jansen, R. Kooper, P. Kumar, J. Lee, R. Marciano, L. Marini, B. Minsker, C. Navarro, A. Schmidt, M. Slavenas, W. Sullivan, B. Zhang, Y. Zhao, I. Zharnitsky, K. McHenry, **“Brown Dog: Making the Digital World a Better Place, a Few Files at a Time”**, PEARC, 2018. (Best Technical Paper Award) ([Paper](#))
- L. Marini, I. Gutierrez-Polo, R. Kooper, S. Satheesan, M. Burnette, T. Nicholson, Y. Zhao, M. Ondrejcek, J. Lee, K. McHenry, **“Clowder: Open Source Data Management for Long Tail Data”**, PEARC, 2018
- R. Marciano, G. Jansen, W. Thomas, S. Shah, and M. Kurtz, **“Building Open-Source Digital Curation Services and Repositories at Scale”**, 13th International Digital Curation Conference (IDCC18), Barcelona, Spain, 2018
- A. Rai, B. Minsker, J. Diesner, K. Karahalios, Y. Sun, **“Identification of Landscape Preferences by Using Social Media Analysis”**, Social Sensing International Workshop (SocialSens), 2018
- D. Li, B. Deal, X. Zhou, M. Slavenas, W. Sullivan, **“Moving Beyond the Neighborhood: Daily Exposure to Nature and Adolescents’ Mood”**, Landscape and Urban Planning, 2018 ([Paper](#))
- P. Suppakittpaisarn, B. Jiang, M. Slavenas, W. Sullivan, **“Does Density of Green Infrastructure Predict Preference?”**, Urban Forestry & Urban Greening, 2018 ([Paper](#))
- S. Satheesan, J. Alameda, S. Bradley, M. Dietze, G. Jansen, R. Kooper, P. Kumar, J. Lee, R. Marciano, L. Marini, B. Minsker, C. Navarro, E. Roeder, A. Schmidt, M. Slavenas, W. Sullivan, B. Zhang, Y. Zhao, I. Zharnitsky, K. McHenry, **“Brown Dog: A Data Transformation Ecosystem for Research - Advancing from Beta to 1.0”**, AGU, 2017
- P. Rodriguez, S. Puthanveetil Satheesan, J. Will, E. Wuerffel, A. Craig, **“Extracting, Assimilating, and Sharing the Results of Image Analysis on the FSA/OWI Photography Collection”**, PEARC, 2017
- A. Langmead, P. Rodriguez, S. Puthanveetil Satheesan, A. Craig, **“Extracting Meaningful Data from Decomposing Bodies”**, PEARC, 2017
- Elag, M. M., Kumar, P., Marini, L., Peckham, S. D., & Liu, R., **“Semantic interoperability of long-tail geoscience resources over the web”**, Large-Scale Machine Learning in the Earth Sciences, 2017
- M. Elag, P. Kumar, L. Marini, J. Myers, M. Hedstrom, B. Plale, **“Identification and characterization of information-networks in long-tail data collections”**, Environmental Modelling & Software, 2017
- K. McHenry, S. Bradley, M. Dietze, P. Kumar, J. Lee, R. Marciano, L. Marini, J. McDonough, B. Minsker, A. Schmidt, B. Sullivan, **“DIBBs Brown Dog - The Need for and Challenges of a Science Driven Data Transformation Service”**, DIBBs PI Workshop, 2017 ([Paper](#))
- A. Rai, **“Identifying Green Infrastructure from Social Media and Crowdsourcing - An Image-Based Machine-Learning Approach”**, AGU, 2016
- K. McHenry, J. Lee, P. Kumar, B. Minsker, M. Dietze, R. Marciano, J. Alameda, S. Bradley, L. Marini, R. Kooper, C. Navarro, S. Padhy, G. Jansen, M. Slavenas, S. Satheesan, Y. Zhao, B. Zhang, I. Zharnitsky, E. Roeder, **“Brown Dog - A Science Driven Data Transformation Service”**, Gateways, 2016
- D.K. Woo, P. Kumar, **“Mean age distribution of soil-nitrogen”**, Water Resources Research, 2016
- M. Slavenas, E. Wuerffel, P. Rodriguez, J. Will, A. Craig, **“Image Analysis and Infrastructure Support for Mining the Farm Security Administration – Office of War Information Photography Collection”**, XSEDE, 2016. (Best Accelerating Discovery Award) ([Paper](#))
- G. Jansen, R. Marciano, S. Padhy, K. McHenry, **“Designing Scalable Cyberinfrastructure for Metadata Extraction in Billion-Record Archives”**, iPRES, 2016.

- S. Padhy, J. Alameda, R. Kooper, R. Liu, S.P. Satheesan, I. Zharnitsky, G. Jansen, M. Dietze, P. Kumar, J. Lee, R. Marciano, L. Marini, B. Minsker, C. Navarro, M. Slavenas, W. Sullivan, K. McHenry, **"An Architecture for Automatic Deployment of Brown Dog Services At Scale into Diverse Computing Infrastructures"**, XSEDE, 2016
- S. Padhy, J. Alameda, R. Liu, E. Black, L. Diesendruck, M. Dietze, G. Jansen, P. Kumar, R. Kooper, J. Lee, R. Marciano, L. Marini, D. Mattson, B. Minsker, C. Navarro, M. Slavenas, W. Sullivan, J. Votava, I. Zharnitsky, K. McHenry, **"Brown Dog: An Elastic Data Cyberinfrastructure for Autocuration and Digital Preservation"**, SEA Software Engineering Assembly, 2016
- M. Dietze, E. Cowdery, A. Desai, A. Gardella, R. Kelly, R. Kooper, D. LeBauer, J. Mantooth, K. McHenry, S. Serbin, A. Shiklomanov, J. Simkins, T. Viskari and A. Raiho, **"Chasing the long tail of environmental data: PEcAn is nuts about Brown Dog"**, AGU, 2015
- S. Padhy, G. Jansen, J. Alameda, E. Black, L. Diesendruck, M. Dietze, P. Kumar, R. Kooper, J. Lee, R. Liu, R. Marciano, L. Marini, D. Mattson, B. Minsker, C. Navarro, M. Slavenas, W. Sullivan, J. Votava, K. McHenry, **"Brown Dog: Leveraging Everything Towards Autocuration"**, IEEE Big Data, 2015 ([Paper](#))
- P. Kumar, **"Hydrocomplexity: Addressing Water Security and Emergent Environmental Risks"**, Water Resources Research, 2015 ([Paper](#))
- S. Padhy, E. Black, B. Cowdery, L. Diesendruck, M. Dietze, G. Jansen, R. Kooper, P. Kumar, J. Lee, R. Lui, R. Marciano, L. Marini, D. Mattson, B. Minsker, C. Navarro, A. Rai, M. Slavenas, W. Sullivan, J. Votava, Q. Yan, I. Zharnitsky, K. McHenry, **"Autocuration Cyberinfrastructure for Scientific Discovery and Preservation"**, IEEE eScience, 2015 ([Paper](#))
- K. McHenry, J. Lee, M. Dietze, P. Kumar, B. Minsker, R. Marciano, L. Marini, R. Kooper, D. Mattson, **"DIBBs Brown Dog, PaaS for SaaS for PaaS"**, XSEDE Reproducibility Workshop, 2014 ([Paper](#))
- D.K. Woo, J.C. Quijano, P. Kumar, S. Chaoka, C.J. Bernacchi, **"Threshold Dynamics in Soil Carbon Storage for Bioenergy Crops"**, *Environmental Science & Technology*, 2014 ([Paper](#))
- A. Rai, B. Minsker, **"Designing Green Stormwater Infrastructure for Hydrologic and Human Benefits: An Image Based Machine Learning Approach"**, AGU, 2014 ([Abstract](#))