Peggy Lindner

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Nationality: German/American

Current position

Assistant Professor, Computer Information Systems

Areas of specialisation

Data Science, Computational Social Science

Appointments held

2018-2019	Associate Director for Educational Programs, *Hewlett Packard Enterprise Data Science Institute*, University of Houston
2013-2019	Research Assistant Professor, Department of Mechanical Engineering & Honors College, *Center for Advanced Computing & Data Science (CACDS)*, University of Houston
2009-2012	Research Assistant Professor, *Department of Computer Science*, University of Houston
2012	Visiting Scientist, Department of Surgery, *The Methodist Hospital Research Institute*, Houston, TX
2007-2012	Lab Manager, *Computational Physiology Lab*, University of Houston
2001-2007	Research Associate, *High Performance Computing Center (HLRS)*, Stuttgart, Germany

Education

2000	MSc in Geotechnology Mining, Freiberg University of Mining and Technology, Germany
2007	PhD in Mechanical Engineering, University of Stuttgart, Germany

Publications

Journal articles

L. Hellmueller, V. Hase, and P. Lindner. Terrorist organizations in the news: A computational and interdisciplinary approach to media attention towards terrorism. *Accepted for publication in Mass Communication and Society*, 2021

G. Toti, R. Vilalta, P. Lindner, B. Lefer, C. Macias, and D. Price. Analysis of correlation between pediatric asthma exacerbation and exposure to pollutant mixtures with association rule mining. *Artificial intelligence in medicine*, 74:44–52, 2016a. Publisher: Elsevier

I. Garza, H. Montakhabi, P. Lindner, P. Tsiamyrtzis, J. Swanson, L. MacBride, T. Krouskop, and I. Pavlidis. The face of migraine; thermal imaging revisited (p06.154). *Neurology*, 80(7 Supplement):P06.154–P06.154, 2013. ISSN 0028-3878

I. Pavlidis, P. Tsiamyrtzis, D. Shastri, A. Wesley, Y. Zhou, P. Lindner, P. Buddharaju, R. Joseph, A. Mandapati, B. Dunkin, and others. Fast by nature-how stress patterns define human experience and performance in dexterous tasks. *Scientific Reports*, 2:305, 2012. Publisher: Nature Publishing Group

Y. Zhou, P. Tsiamyrtzis, P. Lindner, I. Timofeyev, and I. Pavlidis. Spatiotemporal smoothing as a basis for facial tissue tracking in thermal imaging. *IEEE Transactions on Biomedical Engineering*, 60(5):1280–1289, 2012. Publisher: IEEE

P. Lindner, E. Gabriel, and M. M. Resch. GCM: a grid configuration manager for heterogeneous grid environments. *International Journal of Grid and Utility Computing*, 1(1):4–12, 2005. Publisher: Inderscience Publishers

Referred conference publications

L. Hellmueller, L. Camaj, and P. Lindner. Mediating the 2020 u.s. political debates on social media: The impact of message function and visual framing on political deliberation on news outlets' facebook pages. In *71st Annual ICA Conference "Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice"*, 2020-05-27

M. Kazmi, X. Wen, C. Samaniego, A. Tsao, P. Lindner, and C. Spitzmueller. How leadership can reduce the gender-safety priority relationship. In *14th European Academy of Occupational Health Psychology (EAOHP) Conference*, 2020-09. URL https://app.oxfordabstracts.com/events/987/program-app/submission/148625

M. Bagheri, H. Zhao, M. Sun, L. Huang, S. Madasu, P. Lindner, and G. Toti. Data conditioning and forecasting methodology using machine learning on production data for a well pad. In *OTC-30854-MS*, page 17. Offshore Technology Conference, 2020-05-04. ISBN 978-1-61399-707-9. doi: 10.4043/30854-MS. URL https://doi.org/10.4043/30854-MS. Journal Abbreviation: OTC-30854-MS

M. Saxena, S. Jha, S. Khan, J. Rodgers, P. Lindner, and E. Gabriel. Comparison of MPI and spark for data science applications. In *21st IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC 2020), held in conjunction with the 34th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2020)*, 2020

L. Hellmueller, V. Hase, and P. Lindner. Terrorism in the news: Explaining mediated visibility of organized violence. In *69th Annual International Communications Association (ICA) Conference*, 2019. event-place: Washington, D.C

A. Amritkar, J. Ebalunode, M. Huarte-Espinosa, P. Lindner, P. G. Rondón, and A. Prosperetti.

Vistas in advanced computing. In *EduHPC-17 in conjunction with SC 2017*, 2017-11

H. Ayyalasomayajula, E. Gabriel, P. Lindner, and D. Price. Air quality simulations using big data programming models. In *2016 IEEE Second International Conference on Big Data Computing Service and Applications (BigDataService)*, pages 182–184. IEEE, 2016

G. Toti, R. Vilalta, P. Lindner, and D. Price. Effect of the definition of non-exposed population in risk pattern mining. In *5th Workshop on Data Mining for Medicine and Healthcare*, page 19, 2016b

I. Uyanik, P. Lindner, P. Tsiamyrtzis, D. Shah, N. V. Tsekos, and I. T. Pavlidis. Applying a level set method for resolving physiologic motions in free-breathing and non-gated cardiac mri. In *International Conference on Functional Imaging and Modeling of the Heart*, pages 466–473. Springer, 2013

A. Wesley, P. Lindner, and I. Pavlidis. Eustressed or distressed? combining physiology with observation in user studies. In *CHI'12 Extended Abstracts on Human Factors in Computing Systems*, pages 327–330, 2012

P. Lindner, E. Gabriel, and M. M. Resch. Performance prediction based resource selection in grid environments. In *International Conference on High Performance Computing and Communications*, pages 228–238. Springer, 2007

F. Bös, N. Currle-Linde, P. Lindner, R. D. Schmid, and J. Pleiss. High-throughput molecular dynamics simulations: Long and short range effects of mutations on substrate specificity. In *German Conference on Bioinformatics 2004, GCB 2004*. Gesellschaft für Informatik eV, 2004

J. Almond and P. Lindner. An integrated global service for file transfer and management in a network (FTM). In *PDPTA*, pages 1063–1067, 2004

N. Currle-Linde, F. Boes, P. Lindner, J. Pleiss, and M. M. Resch. A management system for complex parameter studies and experiments in grid computing. In *Parallel and Distributed Computing and Systems: Proceedings of the 16 th IASTED International Conference*, 2004

E. Gabriel, R. Keller, P. Lindner, M. S. Müller, and M. M. Resch. Software development in the grid: The DAMIEN tool-set. In *International Conference on Computational Science*, pages 235–244. Springer, 2003

P. Lindner, N. Currle-Linde, M. M. Resch, and E. Gabriel. Distributed application management in heterogeneous GRIDS. In *Euroweb 2002 conference*, pages 1–10, 2002

Service to the profession

Community service: Advisory Board member, Digital Research Commons (DRC) University of Houston, 2018-current

Conference service: Finance Chair, IEEE International Conference on Advanced Video and Signal Based Surveillance, Santa Fe, New Mexico, September 1-3, 2008

Community service: Member of Global Grid Forum (GGF), 2003-2005

Mentoring: Director DASH (Data Analytics in Student Hands) at the University of Houston