

Charalampos Chelmis

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Albany, NY 12222 IDIAS Lab: <http://www.cs.albany.edu/~cchelmis/ideaslab.html>

EDUCATION **Ph.D. in Computer Science** **2013**
Department of Computer Science, University of Southern California, Los Angeles, CA
M.S. in Computer Science **2010**
Department of Computer Science, University of Southern California, Los Angeles, CA
B.Eng. in Computer Engineering and Informatics **2007**
Computer Engineering & Informatics Department, University of Patras, Patras, Greece

APPOINTMENTS **University at Albany – SUNY, Computer Science Department**
Assistant Professor **September 2016–Present**
Director of the UAlbany Intelligent Big Data Analytics, Applications, and Systems (IDIAS) Lab.
Lead research efforts on (i) scalable and accurate algorithms, models, and systems for data-intensive computing involving high-dimensional and often networked data, (ii) information theoretic primitives to enable statistical operations over semantic data, (iii) socially important data science, including cyberbullying detection and anticipation, and urban informatics for vulnerable populations.
University of Southern California, Ming Hsieh Department of Electrical Engineering
Senior Research Associate **July 2015–August 2016**
Lead research efforts for (i) designing and developing optimized algorithms for mining massive time-evolving real-world graphs, (ii) accelerating graph analytics on parallel and heterogeneous architectures, and cloud-enabled infrastructure, and (iii) addressing complex integration issues that arise from the need for analysis of large-scale heterogeneous datasets in real-world scenarios.
University of Southern California, Ming Hsieh Department of Electrical Engineering
Research Associate **January 2014–June 2015**
Designed and developed efficient methods for (i) the automatic formation of semantic queries in data lakes, and (ii) scalable and adaptive time-series forecasting for smart grids.
University of Southern California, Computer Science Department
Research Assistant **2010–2013**
Developed a novel formal model of complex, heterogeneous networks that lead to significant performance improvements in a variety of prediction and recommendation tasks in online social networks.
Chevron Information Technology Company **Summer 2010**
Research Intern
Developed an integrated system that enabled mediation between various proprietary tools using domain knowledge.

FUNDING **Total:** \$2,003,875. **External:** \$2,000,420
[1] SCC-IRG Track 2: Community on Multimodality: Participatory Action, Service, and Support (Supplementary TTP), 09/01/2020 - 08/31/2022, \$331,320.00 (Co-PI). Funding source: NSF. The supplement will enable the transition of research prototypes developed as part of SCC-1737443 to practice.
[2] CRII: III: Adding Exploratory Statistical Analysis and Prediction Support to SPARQL, 03/04/2019 - 03/03/2021, \$174,596 (PI). Funding source: NSF. The project focuses on simplifying access to semantic data as well as enabling the exploratory and statistical analysis of such data.
[3] SCC-IRG Track 2: Community on Multimodality: Participatory Action, Service, and Support, 09/01/17 - 08/31/20, SCC-1737443, \$996,740 (Co-PI). Funding source: NSF. The project focuses on maximizing the efficiency of delivering human and physical service by integrating people and data with analytics, engineering, and social and behavioral sciences.
[4] FRAP-B: Understanding Human Service-Seeking Trajectories, 05/01/2018 - 03/30/2020, \$3,455.00

(PI). Funding source: UAlbany. This project examined individual service-seeking behaviors, with the goal of identifying limitations of extant services, and (iii) characterize (at a preliminary level) the interrelated dynamics and behaviors of service seekers and service providers.

[5] CNS: CSR: Small: Exploiting 3D Memory for Energy-Efficient Memory-Driven Computing, 10/01/16 - 09/30/20, CNS-1643351, \$497,764 (Co-PI). Funding source: NSF. The project focused on parallel algorithms and application-specific architectures for energy-efficient data intensive applications on 3D integrated circuits.

AWARDS	President's Awards for Exemplary Public Engagement	2020
FELLOWSHIPS	(with Drs. Wonhyung Lee and Daphney-Stavroula Zois)	
SCHOLARSHIPS	NSF CISE Research Initiation Initiative Award	2019
	University at Albany's Next Research Frontier Award (Silver Medallion)	2019
	Theoretical Award Runner-Up	2016
	(with Michail Misyrilis, Rajgopal Kannan, and Viktor K. Prasanna), Complex Adaptive systems	
	Methodology Prize Award , DARPA Forecasting Chikungunya Challenge	2015
	(with Ajitesh Srivastava and Anand Panangadan)	
	First Prize Award (Student Project), 2nd ESWC Summer School	2012
	Honorable Mention (SpringerTabs), Springer API Challenge 1.0	2011
	Academic Achievement Award , USC Office of International Services	2010
	Andreas Mentzelopoulos Scholarship	2008–2010
MEDIA	Expert panel on the Job Market for Recent Graduates by Zippia, a resource site for job seekers	2021
COVERAGE	Artificial Intelligence and Cybersecurity Research Brochure, Ualbany Division for Research	2020
	Annual CEAS Report, Smart and Connected Communities	2020
	WNYT, UAlbany professors say teaching Instagram to recognize cyberbullying will take time	2019
	Annual CEAS Report, Socially Responsible Cities: Challenges and Opportunities	2019
	UAlbany News, NSF Awards Three UAlbany Faculty \$1 Million Grant	2017
	USC News, USC engineers earn national recognition for forecasting outbreaks	2015
	USC Viterbi News, GOING VIRAL–USC team recognized for predicting disease outbreaks	2015
ACADEMIC	Associate Editor	
SERVICE	Social Network Analysis and Mining	2021–Present
	Journal of Parallel and Distributed Computing	2019–2021
	Co-Editor	
	Encyclopedia of Social Network Analysis and Mining	2016
	Guest Editor	
	Journal of Parallel and Distributed Computing	2015
	(Special Issue: Scalable Computing Systems for Big Data Applications)	
	Co-Chair	
	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining	2022
	(Program Committee)	
	Data Science and Advanced Analytics for Smart & Connected Communities	2021
	(Special session co-located with IEEE DSAA)	
	1st Symposium on Signal Processing and Machine Learning for Social Good	2019
	(Co-located with IEEE GlobalSIP)	
	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining	2019
	(PhD Forum and Posters Track)	2015–2017
	Int'l Workshop on Scalable Computing For Real-Time Big Data Applications	2014–2019
	IEEE Parallel Learning Workshop	2016
	Program Committee Member	
	ACM The Web Conference (Formerly WWW)	2015–2016, 2020–Present
	AAAI International Conference on Web and Social Media	2018–Present
	ACM International Web Science Conference	2020–Present

	IEEE International Conference on Social Computing	2012–2016
	IEEE International Conference on High Performance Computing	2015–Present
	IEEE International Conference on Advances in P2P Systems	2010–2012
	Workshop on Social Network Analysis in Applications	2019
	Reviewer	
	AAAI	2020–Present
	IJCAI	2020
	PLOS One	2016–Present
	IEEE Transactions on Artificial Intelligence	2020–present
	IEEE Transactions on Big Data	2020–present
	IEEE Transactions on Knowledge and Data Engineering	2015–Present
	IEEE Transactions on Computational Social Systems	2015–Present
	IEEE Transactions on Information Forensics & Security	2016–Present
	IEEE Transactions on Internet Technology	2016–Present
	Springer Social Network Analysis and Mining	2019–Present
	ASE International Conference on Social Informatics	2012
	IEEE International Conference on Social Computing	2011
	Panelist	
	National Science Foundation (NSF)	2021, 2022
	(Panels information is removed in compliance with NSF policy.)	2017, 2019
	College Level Service	
	CEAS Outreach Admissions	2017–Present
	Bunshaft Lecture Committee Member	2017–2018
	Departmental Service	
	Placement Exam Committee (Chair)	2019–Present
	Graduate Admissions Committee (Member)	2019–Present
	Graduate Curriculum Committee (Member)	2019–Present
	Undergraduate Curriculum Committee (Member)	2016–2019
	ABET Accreditation Committee (Member)	2018–2019
	Faculty Search Committee (Member)	2018–2019
	Graduate Student Advising	2017–Present
COMMUNITY & INDUSTRY SERVICE	ACM US Technology Policy Committee Member	2021–Present
	Provide authoritative technical expertise and guidance to the US government, the computing community, and the public on policy matters related to artificial intelligence and digital governance.	
	Advisory Board Member	2018–Present
	Provide expertise and know-how in Network Science and Big Data to The Swiss Innovation Valey AG, which goal is to promote start-up companies in Switzerland.	
	The Food Pantries for the Capital District Software Development Committee 2018–2019	
	Guided the development of a web-based client data, resource referral, pantry client ordering, and inventory management software system for a coalition of more than 60 food pantries in Albany, Rensselaer, Saratoga, and Schenectady Counties in the state of New York.	
TEACHING EXPERIENCE	Instructor	
	ICSI 455/660: Semantic Web Technologies (Topics in CS), UAlbany	Spring'21
	ICSI 503: Algorithms and Data Structures, UAlbany	Fall'20, Fall'21
	ICSI 432/532: Network Science, UAlbany	Spring'17, Spring'18, Spring'19, Spring'20
	ICSI 402: Systems Programming, UAlbany	Fall'16, Fall'17, Fall'18, Fall'19
	Guest Lecturer	
	The Role of Technology in Maximizing Delivery of Human Services: A Case Study in Human Service Coordination and Information Distribution	Fall'18
	RSSW 630, MACRO Practice in Social Work I, UAlbany	
	Influence in Social Networks: Analytical and Computational Challenges	Fall'14
	EE599, Special Topics in Social Network Systems, University of Southern California	
	Computational Models of Technology Adoption at the Workplace	Spring'13
	EE598, Electrical Engineering Research Seminar, University of Southern California	

Teaching Assistant

CSCI 571: Web Technologies, University of Southern California

Spring'09, Fall'09

CSCI 101: Fundamentals of Computer Programming, University of Southern California

Fall'08

Distributed Systems I, University of Patras

Fall'07

Software Laboratory, University of Patras

Fall'06, Fall'07

TUTORIALS

C. Chelmis, D.-S. Zois, "Characterization, Detection, and Mitigation of Cyberbullying", *13th ACM Web Science Conference*, 2021**C. Chelmis**, D.-S. Zois, "Characterization, Detection, and Mitigation of Cyberbullying", *12th International Conference on Web and Social Media*, 2018**C. Chelmis**, D.-S. Zois, "Popularity on the Web: From Estimation to Prediction", IEEE International Conference on Big Data, 2017

INVITED TALKS

C. Chelmis, "Cyberbullying Detection & Anticipation on Instagram", Technology and Cybercrime: Different Perspectives workshop organized in the context of the European project RAYUELA (empowerRing and educAting YoUng pEople for the internet by pLAYing), July 2021**C. Chelmis**, "Cyberbullying Detection & Anticipation on Instagram", Facebook Research, October 2020**C. Chelmis**, "Anti-Hate Speech Research: Hate Detection & Anticipation", Electronic Arts, October 2020**C. Chelmis**, "On-the-fly Feature Selection & Classification of High-dimensional Data", University of Massachusetts Boston, July 2019**C. Chelmis**, "Machine Learning Methods and Algorithms for High Dimensional and Networked Data", Northeastern University, July 2019**C. Chelmis**, Technological solutions for cyberbullying detection, Science and Technology Entry (STEP) , UAlbany, July, 2018

STUDENTS

Bedirhan Gergin, Ph.D. student, UAlbany

CURRENTLY

Sadia Rahman, Ph.D. student, UAlbany

ADVISED

Qi Wenting, Ph.D. candidate, UAlbany

ALUMNI

Suchindra Agarwal, M.S., USC (Amazon)

Saima Aman, Ph.D 2016, USC (Prediction Models for Dynamic Decision Making in Smart Grid)

Yogesh Kumar Angajala, M.S. 2019, UAlbany (Capital One)

Reshul Dani, senior undergraduate student (Pune, Maharashtra, India)

Pranith Dacheppally, M.S., UAlbany

Andrew Furgiuele, B.S. 2017, UAlbany

Zachary T. Gima, B.S. 2013, USC (Ph.D. student at UC Berkeley)

Jingzhou Hu, M.S. 2019, UAlbany

Balaji Sankeerth Jagini, M.S. 2018, UAlbany

Angeliki Kapodistria, 2017–2018, UAlbany (Accenture Greece)

Parth R Kshirsagar, M.S. 2019, UAlbany

Jahanvi Kolte, senior undergraduate intern, USC (Nirma University)

Yasitha S Warahena Liyanage, Ph.D. 2021, Albany (Microsoft)

Sanmukh Rao Kuppannagari, Ph.D. 2018, USC (Post Doctoral Research Associate at USC)

John J Lahut, M.S., UAlbany

Muhammad Usman Noor, M.S. 2013, USC (Sapphire Textile Mills, Ltd)

Ranjan Pal, Ph.D. 2014, USC (Research Scientist at USC)

Muhammad Rizwan Saeed, Ph.D. 2019, USC (Data Scientist at Walmart Labs)

Ajitesh Srivastava, Ph.D. 2018, USC (Post Doctoral Research Associate at USC)

Ketan Singh, M.S. 2013, USC (Apple)

Charith Wickramaarachchi, USC (Google)

Hao Wu, Ph.D. student, USC (USC–ISI)

Mengfan Yao, Ph.D. student, UAlbany (UAlbany)

Christopher Z Yong, B.S. 2018 (UAlbany)

Jiabin Zhang, M.S. 2016, (Snapchat Inc.)

Shijie Zhou, senior Ph.D. student, USC

Connor Zhu, M.S., UAlbany Vasileios Zois, M.S. 2015, USC (Ph.D. student at UCRiverside)

THESIS COMMITTEE CHAIR	Wenting Qi	2021–Present
THESIS COMMITTEE MEMBER	Jeremy Birnbaum	2020–Present
	Dan DiTursi	2017–2019
	Alexander Gorovits	2018–2021
	Yan Hu	2017–2019
	Mehrdad Mirzaei	2018–2020
	Baibhav L Rajbhandari	2019–Present
	Yasitha S Warahena Liyanage	2020–2021
	Lin Zhang	2018–2020
SELECTED JOURNAL PUBLICATIONS	[1] Y. W. Liyanage, D. S. Zois, and C. Chelmis , “Dynamic Instance–Wise Classification in Correlated Feature Spaces”, <i>IEEE Transactions on Artificial Intelligence</i> , 2021	
	[2] Y. W. Liyanage, D. S. Zois, and C. Chelmis , “Dynamic Instance–Wise Joint Feature Selection and Classification”, <i>IEEE Transactions on Artificial Intelligence</i> , 2021	
	[3] C. Chelmis , D.-S. Zois, “Dynamic, Incremental, and Continuous Detection of Cyberbullying in Online Social Media”, <i>ACM Transactions on the Web</i> , 2021	
	[4] Y. W. Liyanage, D.-S. Zois, and C. Chelmis , “Near Real-Time Freeway Accident Detection”, <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020	
	[5] W Lee, C. Chelmis , K. DiNicola, “Coordination Networks among Local Human Service Organizations: Insights into Super-Connectors and Barriers”, <i>Journal of Social Service Research</i> , 2020	
	[6] M. R. Saeed, C. Chelmis , V. K. Prasanna, “Extracting Entity–Specific Substructures for RDF Graph Embeddings”, <i>Semantic Web Journal</i> , 2019	
	[7] R. Pal, C. Chelmis , M. Frincu, and V. K. Prasanna, “Towards dynamic demand response on efficient consumer grouping algorithmics.” <i>IEEE Transactions on Sustainable Computing</i> 1(1), 2017	
	[8] R. Pal, C. Chelmis , M. Frincu, and V. K. Prasanna, “MATCH for the prosumer smart grid the algorithmics of real-time power balance.” <i>IEEE Transactions on Parallel and Distributed Systems</i> 27(12), 2016	
	[9] A. Srivastava, C. Chelmis , V. K. Prasanna, “Computing Competing Cascades on Signed Networks”, <i>Social Network Analysis and Mining</i> , 6(1): 82, 2016	
	[10] A. Srivastava, C. Chelmis , V. K. Prasanna, “The unified model of social influence and its application in influence maximization”, <i>Social Network Analysis and Mining</i> , 5(1): 1-12, 2015	
	[11] C. Chelmis , A. Srivastava, V. K. Prasanna, “Computational Models of Technology Adoption at the Workplace”, <i>Social Network Analysis and Mining</i> , 4(1): 1-18, 2014	
	[12] C. Chelmis , V. K. Prasanna, “Social Link Prediction in Online Social Tagging Systems”, <i>ACM Transactions on Information Systems</i> , 31(4), 2013	
	[13] C. Chelmis , V. K. Prasanna, “An Empirical Analysis of Microblogging Behavior in the Enterprise”, <i>Social Network Analysis and Mining</i> , 3(3): 611-633, 2013 (Invited)	
	*** Two (2) published journal articles are not included in this list.	
JOURNAL MANUSCRIPTS UNDER REVIEW	[14] C. Chelmis , K. S. Rahman, “Why do Some Homeless Succeed While Others Falter? A Network Science Perspective”, <i>ACM Transactions on Social Computing</i> , 2022	
	[15] C. Chelmis , W. Qi, “Noisy Labels in Accurate Classifiers out”, <i>IEEE Transactions on Artificial Intelligence</i> , 2022 (Under Submission)	

- [16] **C. Chelmis**, W. Qi, “Evaluating Algorithmic Homeless Services Allocation”, *IEEE Transactions on computational Social Systems*, 2022 (Under Submission)
- [17] **C. Chelmis**, Wenting Qi, “Hierarchical MultiClass AdaBoost”, IEEE International Conference on Big Data, 2021 (Acceptance Rate 20%)
- [18] Wenting Qi, **C. Chelmis**, “Improving Algorithmic Decision–Making in the Presence of Untrustworthy Training Data”, IEEE International Conference on Big Data, 2021 (Acceptance Rate 20%)
- [19] **C. Chelmis**, K. S. Rahman, “Peeking Through the Homelessness System with a Network Science Lens”, IEEE/ACM International Conference on Advances in Social Network Analysis and Mining, 2021 (Acceptance Rate 15%)
- [20] **C. Chelmis**, W. Qi, W. Lee, “Challenges and Opportunities in Using Data Science for Homelessness Service Provision Data Science for Social Good workshop”, *Data Science for Social Good workshop* (collocated with TheWebConf), 2021
- [21] **C. Chelmis**, W. Qi, W. Lee, S. Duncan, “Smart Homelessness Service Provision with Machine Learning”, *Complex Adaptive Systems*, 2021
- [22] **C. Chelmis**, Y. K. Angajala, “Cyberinfrastructure for Social Good: Ensuring That No Homeless Individual Stays Behind”, *Complex Adaptive Systems*, 2021
- [23] Y. W. Liyanage, D.-S. Zois, **C. Chelmis**, “On-The-Fly Feature Selection and Classification with Application to Civic Engagement Platforms”, *IEEE International Conference on Acoustics, Speech and Signal Processing*, 2020
- [24] **C. Chelmis**, M. Yao, “Minority Report: Cyberbullying Prediction on Instagram”, *Web Science Conference*, 2019 (Acceptance Rate 20%)
- [25] M. Yao, **C. Chelmis**, D.-S. Zois, “Cyberbullying Ends Here: Towards Robust Detection of Cyberbullying in Social Media”, *International Conference on World Wide Web*, 2019 (Acceptance Rate 20%)
- [26] A. Srivastava, R. Kannan, **C. Chelmis**, V. K. Prasanna, “RecANt: Network-based Recruitment for Active Fake News Correction”, *IEEE BigData*, 2019 (Acceptance Rate 18.7%)
- [27] **C. Chelmis**, M. Yao, W. Lee, “Web and Society: A First Look into the Network of Human Service Providers”, IEEE/ACM International Conference on Advances in Social Network Analysis and Mining, 2019
- [28] C. Yong, **C. Chelmis**, W. Lee, D.-S. Zois, “Understanding Online Civic Engagement: A Multi-Neighborhood Study of SeeClickFix”, IEEE/ACM International Conference on Advances in Social Network Analysis and Mining, 2019
- [29] Y. W. Liyanage, **C. Chelmis**, D.-S. Zois, “A Hierarchical Framework for Timely Freeway Accident Detection and Localization”, *IEEE International Conference on Big Data*, 2018 (Acceptance Rate < 18%)
- [30] M. Yao, **C. Chelmis**, D.-S. Zois, “Cyberbullying Detection on Instagram with Optimal Online Feature Selection”, *IEEE/ACM International Conference on Social Networks Analysis and Mining*, 2018 (Acceptance Rate < 15%)
- [31] D.-S. Zois, A. Kapodistria, M. Yao, **C. Chelmis**, “Optimal Online Cyberbullying Detection”, *The IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2018

- [32] A. Srivastava, R. Kannan, **C. Chelmis**, V. K. Prasanna, “FactCheck: Keeping Activation of Fake News at Check”, *International Conference on Autonomous Agents and MultiAgent Systems*, 2018 (Acceptance Rate 25%)
- [33] D.-S. Zois, C. Yong, **C. Chelmis**, A. Kapodistria, W. Lee, “Improving Monitoring of Participatory Civil Issue Requests through Optimal Online Classification”, *52nd Asilomar Conference on Signals, Systems and Computers*, 2018
- [34] Y. W. Liyanage, D.-S. Zois, **C. Chelmis**, “Optimal Sequential Detection of Freeway Accidents”, *52nd Asilomar Conference on Signals, Systems and Computers*, 2018
- [35] **C. Chelmis**, D.-S. Zois, M. Yao, “Mining Patterns of Cyberbullying on Twitter”, *The Seventh IEEE ICDM Workshop on Data Mining in Networks*, 2017
- [36] **C. Chelmis**, R. Dani, “ASSIST: Automatic Summarization of Significant Structural Changes in Large Temporal Graphs”, *Web Science Conference*, 2017 (Acceptance Rate < 25%)
- [37] **C. Chelmis**, R. Dani, “Temporal Graph Anomaly Summarization”, *International School and Conference on Network Science*, 2017
- [38] A. Srivastava, **C. Chelmis**, V. K. Prasanna, “Mining Large Dense Subgraphs”, *5th International World Wide Web Conference*, 2016
- [39] M. R. Saeed, **C. Chelmis**, V. K. Prasanna, “ASQFor: Automatic SPARQL Query Formulation for the Non-Expert”, *25th International Joint Conference on Artificial Intelligence*, 2016
- [40] S. Aman, **C. Chelmis**, V. K. Prasanna, “Learning to REDUCE: A Reduced Electricity Consumption Prediction Ensemble”, *AAAI Conference on Artificial Intelligence Workshop on Artificial Intelligence for Smart Grids and Smart Buildings*, 2016
- [41] A. Srivastava, **C. Chelmis**, V. K. Prasanna, “Social Influence Computation and Maximization in Signed Networks with Competing Cascades”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2015 (Acceptance Rate < 18%)
- [42] S. Aman, **C. Chelmis**, V. K. Prasanna, “Influence-driven Model for Time Series Prediction from Partial Observations”, *AAAI Conference on Artificial Intelligence*, 2015 (Acceptance Rate < 20%)
- [43] **C. Chelmis**, S. Aman, M. R. Saeed, M. Frincu, V. K. Prasanna, “Estimating Reduced Consumption for Dynamic Demand Response”, *AAAI Conference on Artificial Intelligence Workshops*, 2015
- [44] **C. Chelmis**, J. Kolte, V. K. Prasanna, “Big Data Analytics for Demand Response: Clustering Over Space and Time”, *IEEE International Conference on Big Data Workshops*, 2015
- [45] C. Wickramaarachchi, A. Kumbhare, M. Frincu, **C. Chelmis**, V. K. Prasanna, “Real-time Analytics for Fast Evolving Social Graphs”, *15th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*, 2015
- [46] C. D. Wickramaarachchi, **C. Chelmis**, V. K. Prasanna, “Empowering Fast Incremental Computation over Large Scale Dynamic Graph”, *International Workshop on Parallel & Distributed Computing for Large Scale Machine Learning & Big Data Analytics*, 2015
- [47] A. Srivastava, R. Chen, **C. Chelmis**, V. K. Prasanna, “A Hybrid Design for High Performance Large-scale Sorting on FPGA”, *International Conference on Reconfigurable Computing and FPGAs*, 2015
- [48] S. Zhou, **C. Chelmis**, V. K. Prasanna, “Optimizing Memory Performance for FPGA Implementation of PageRank”, *International Conference on Reconfigurable Computing and FPGAs*, 2015
- [49] S. Zhou, **C. Chelmis**, V. K. Prasanna, “Accelerating Large-Scale Single-Source Shortest Path on FPGA”, *IEEE International Parallel and Distributed Processing Symposium Workshop*, 2015
- [50] **C. Chelmis**, M. R. Saeed, M. Frincu, V. K. Prasanna, “Curtailment Estimation Methods for Demand Response: Lessons learned by comparing apples to oranges”, *ACM International Conference on Future Energy Systems*, 2015 (Acceptance Rate < 23%)

- [51] R. Pal, **C. Chelmis**, S. Aman, C. Tadepalli, M. Frincu, V. K. Prasanna, “Online Time Series Clustering For Demand Response: A Theory to Break the Curse of Dimensionality”, *ACM International Conference on Future Energy Systems*, 2015 (Acceptance Rate < 23%)
 - [52] M. Frincu, **C. Chelmis**, S. Aman, M. R. Saeed, V. Zois, V. K. Prasanna, “Enabling Automated Dynamic Demand Response: From Theory to Practice”, *ACM International Conference on Future Energy Systems*, 2015 (Acceptance Rate < 23%)
 - [53] A. Srivastava, **C. Chelmis**, V. K. Prasanna, “Influence in Social Networks: A Unified Model?”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2014 (Acceptance Rate < 18%)
 - [54] M. Frincu, **C. Chelmis**, M. U. Noor, V. K. Prasanna, “Accurate and Efficient Selection of the Best Consumption Prediction Method in Smart Grids”, *IEEE International Conference on Big Data*, 2014 (Acceptance Rate < 19%)
 - [55] **C. Chelmis**, V. K. Prasanna, “The Role of Organization Hierarchy in Technology Adoption at the Workplace”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2013 (Acceptance Rate < 13%)
 - [56] H. Wu, **C. Chelmis**, Y. Zhang, V. Sorathia, O. Patri, V. K. Prasanna, “Enriching Employee Ontology for Enterprises with Knowledge Discovery from Social Networks”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2013
 - [57] **C. Chelmis**, “Complex Modeling and Analysis of Workplace Collaboration Data”, *International Conference on Collaboration Technologies and Systems*, 2013
 - [58] **C. Chelmis**, V. K. Prasanna, “Exploring Generative Models of Tripartite Graphs for Recommendation in Social Media”, *4rth International Workshop on Modeling Social Media*, 2013
 - [59] **C. Chelmis**, V. K. Prasanna, “Predicting Communication Intention in Social Networks”, *ASE/IEEE International Conference on Social Computing*, 2012 (Acceptance Rate < 10%)
 - [60] **C. Chelmis**, V. K. Prasanna, “Microblogging in the Enterprise: A few comments are in order”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2012 (Acceptance Rate < 16%)
 - [61] **C. Chelmis**, V. Sorathia, V. K. Prasanna, “Enterprise Wisdom Captured Socially”, *IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 2012 (Invited Paper)
 - [62] **C. Chelmis**, V. K. Prasanna, “Social Networking Analysis: A State of the Art and the Effect of Semantics”, *IEEE International Conference on Social Computing*, 2011
- *** More than twenty (20) peer-reviewed conference publications are not included in this list.

BOOK
CHAPTERS

- [63] **C. Chelmis**, “Microblogging Behavior and Technology Adoption at the Workplace”, *The Cambridge Handbook of Technology and Employee Behavior*, Cambridge University Press, 2018
- [64] **C. Chelmis**, D.-S. Zois, “Popularity Estimation of Pirated Content on the Web”, *Machine Learning Techniques for Online Social Networks*, Springer 2017
- [65] A. Srivastava, **C. Chelmis**, V. K. Prasanna, “Computational Models for Cascades in Massive Graphs: How to Spread a Rumor in Parallel”, *Parallel Graph Algorithms*, Chapman & Hall/CRC Computational Science 2016
- [66] V. Zois, **C. Chelmis**, V. K. Prasanna, “Querying of Time Series for Big Data Analytics”, *Handbook of Research on Innovative Database Query Processing Techniques*, IGI Global, 2015
- [67] **C. Chelmis**, V. Sorathia, V. K. Prasanna, “Enterprise Knowledge Preservation and Management”, *Collaborative Processes and Decision Making in Organizations*, IGI Global, 2013

SELECTED
TALKS AND
POSTERS

- [68] **C. Chelmis**, “Cyberbullying: Technology, Responsibility, and Community Safeguards” Symposium, *Eisenberg & Baum, LLP*, May 2021
- [69] **C. Chelmis**, M. Yao, “Cyberbullying Minority Report: A Multi-Task Learning Approach”, *NetSci*, May 2019

- [70] **C. Chelmis**, M. Yao, “Creating Public Value by Democratizing the Ecosystem of Human Service Providers”, *Data Science for Social Good Workshop*, International Conference on World Wide Web, May 2019
- [71] M. Yao, **C. Chelmis**, and D.S. Zois, “Robust Detection of Cyberbullying on Instagram: An Optimal Stopping Approach”, *NetSci*, May 2019
- [72] **C. Chelmis**, M. Yao, W. Lee, D.S. Zois, and B.S. Jagini, “A First Look into the Network of Human Service Providers ”, *NetSci*, May 2019
- [73] **C. Chelmis**, “Summarizing Changes in Temporal Networks”, 2017-2018 Advanced Data Analytics Lightning Talks Series, *UAlbany Advanced Data Analytics Network*, 2018
- [74] **C. Chelmis**, “Addressing the Challenges of Big Networked Data”, 2016-2017 Advanced Data Analytics Lightning Talks Series, *UAlbany Advanced Data Analytics Network*, 2017
- [75] S. Aman, **C. Chelmis**, V. K. Prasanna, “Addressing Data Veracity in Big Data Applications”, *IEEE International Conference on Big Data*, 2014 (Poster)
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PROFESSIONAL	Association for the Advancement of Artificial Intelligence (AAAI)	2016–Present
MEMBERSHIPS	Association of Computing Machinery (ACM)	2008–Present
	Institute of Electrical and Electronic Engineers (IEEE)	2008–Present
	IEEE Computer Society	2008–Present
	IEEE Special Community for Big Data	2013–Present
	IEEE Special Community for Internet of Things	2013–Present
	IEEE Special Community for Knowledge and Data Engineering	2013–Present