

NITIN AGARWAL, Ph.D.

Jerry L. Maulden-Entergy Chair and Donaghey Distinguished Professor of Information Science
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EDUCATION

August 2003 – August 2009 Doctor of Philosophy in Computer Science
Arizona State University

August 1999 – July 2003 Bachelor of Technology in Information Technology
Indian Institute of Information Technology

AFFILIATIONS

June 2022 – *present* Faculty Fellow, International Computer Science Institute
University of California – Berkeley

July 2015 – *present* Founding Director, Collaboratorium for Social Media and Online
Behavioral Studies (COSMOS) Research Center
University of Arkansas – Little Rock

July 2015 – *present* Jerry L. Maulden-Entergy Endowed Chair and Donaghey Distinguished
Professor of Information Science
University of Arkansas – Little Rock

2013 – 2015 Associate Professor of Information Science
University of Arkansas – Little Rock

2009 – 2013 Assistant Professor (tenure-track) of Information Science
University of Arkansas – Little Rock

2008 – 2009 Graduate Research Associate, School of Computing and Informatics
Arizona State University

2003 – 2008 Graduate Research Associate, Hispanic Research Center
Arizona State University

RESEARCH

Research Areas

1. Social Computing; knowledge discovery in social media; modeling social dynamics, including collective action, influence, trust, community evolution, social identity, familiar strangers, crowdsourcing, collective intelligence, and human computation.
2. Mitigating cognitive threats, socio cognitive security, social cyber forensics, deception, adversarial information and influence campaigns, and modeling deviant behaviors.
3. Artificial intelligence, data mining, machine learning, and big data analytics.
4. Smart and connected health, health 2.0, and health informatics.
5. Semantic web mining.
6. Privacy.

Sponsored Projects *(total over \$60 million; over \$30 million UALR portion)*

1. **[Role: PI]** Developing Socio-computational Methods to Strengthen Community Resiliency to Mitigate Cognitive Attacks. The project is funded by the **U.S. Army Research Office (ARO)** Social and Cognitive Networks Program (Award number: W911NF-25-1-0147). Total award amount: \$5,000,000. Project Period: 09/01/2025 – 08/31/2027.
2. **[Role: PI]** Developing Socio-computational Approaches to Mitigate Collective Action-based Socio-cognitive Security Threats in a Multi-platform Multimedia-rich Information Environment. The project is funded by the **U.S. Army Research Office (ARO)** Social and Cognitive Networks Program (Award number: W911NF-24-1-0078). Total award amount: \$5,000,000. Project Period: 03/01/2024 – 02/28/2027.
3. **[Role: PI]** Developing Socio-computational Capabilities to Evaluate Emerging Social Cyber Threats. The project is funded by the **U.S. Army Research Office (ARO)** Social and Cognitive Networks Program (Award number: W911NF-23-1-0011). Total award amount: \$5,000,000. Project Period: 03/01/2023 – 09/30/2026.
4. **[Role: Sub-PI]** Fusing Narrative and Social Cyber Forensics to Understand Covert Influence – Malaysia. This project is funded by the **Office of Naval Research (ONR)** under the Minerva Program (Award number: N00014-22-1-2604). Total award amount: \$374,025. Project Period: 08/01/2022 – 01/31/2024. Collaborators: Scott Ruston.
5. **[Role: PI]** Developing Novel Big Data Mining Algorithms for a Safer Social Media and Creating Training Opportunities for Workforce Development and Retention. The project is funded by the **U.S. National Science Foundation (NSF)** / Arkansas Economic Development Commission's (AEDC) Division of Science and Technology (Award number: #22-22). Total award amount: \$95,227. Project Period: 12/1/2022 – 11/30/2023.
6. **[Role: Sub-PI]** Building a computational model of mobs leveraging social science theories. The project is funded by the **U.S. Air Force Office of Scientific Research (AFOSR)** under the Defense EPSCoR Program (Award number: FA9550-22-1-0332). Total award amount: \$660,407.00. Project Period: 07/05/2022 – 07/04/2025. Role: Sub-PI. Collaborators: Samer Al-Khateeb.

7. **[Role: PI]** Multimedia Data-Intensive High-Density Computational Support for Research on Monitoring Cyber Warfare Tactics through Social Media. The project is funded by the **U.S. Office of Naval Research (ONR)** under Defense University Research Instrumentation Program (DURIP) (Award number: N00014-22-1-2318). Total award amount: \$165,540.00. Project Period: 04/01/2022 – 03/31/2023. Role: PI.
8. **[Role: Sub-PI]** Multi-Level Models of Covert Online Information Campaigns. This project is funded by the **U.S. Office of Naval Research (ONR)** under the Minerva Program (Award number: N00014-21-1-2765). Total award amount: 4,965,214. Project Period: 08/12/2021 – 08/11/2026. Role: Sub-PI. Collaborators: Kathleen Carley.
9. **[Role: Sub-PI]** Fusing Narrative and Social Cyber Forensics to Understand Covert Influence. This project is funded by the **U.S. Office of Naval Research (ONR)** under Minerva Program (Award number: N00014-21-1-2121). Total award amount: 2,349,348. Project Period: 02/02/2021 – 02/01/2025. Collaborators: Scott Ruston.
10. **[Role: PI]** SBP 2021-2023 Conference Sponsorship Grant Proposal. This project is funded by the **U.S. Army Research Office's (ARO)** Modeling of Complex Systems program (Award number: W911NF-21-1-0102). Total award amount: \$60,000. Project Period: 03/01/2021 – 02/28/2024. Role: PI.
11. **[Role: PI]** Developing a framework for multiplatform misinformation campaign analysis. This project is funded by **Arkansas Research Alliance** under Impact Grants 2.0. Total award amount: \$75,000. Project Period: 03/01/2021 – 02/28/2022. Role: PI.
12. **[Role: PI]** Evaluating and Advancing Deviant Cyber Flash Mob (DCFM) Model to Combat COVID-19 Misinfodemic. This project is funded by the **U.S. Army Research Office (ARO)** under Social and Cognitive Networks program within the Network Sciences division (Award number: TBD). Program Officer: Dr. Edward Palazzolo. Total award amount: \$150,000. Project Period: 08/01/2020 – 07/31/2021.
13. **[Role: PI]** Twitter Follower / Friend Assessment Tool (TWIFFA). This project is funded by the **U.S. Department of Defense (DoD)** (Award number: TBD). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$150,000. Project Period: 08/01/2020 – 07/31/2021.
14. **[Role: Thrust PI]** RII Track-1: Data Analytics that are Robust and Trusted (DART): From Smart Curation to Socially Aware Decision Making. This project is funded by the **U.S. National Science Foundation (NSF)** (Award number: OIA-1946391). Program Officer: Dr. Jeanne Small. Total award amount: \$24 million. Project Period: 07/01/2020 – 06/30/2025. Collaborators: Steve Stanley and Jackson Cothren.
15. **[Role: Arkansas PI]** RII Track 2 FEC: Multi-scale Integrative Approach to Digital Health. This project is funded by the **U.S. National Science Foundation (NSF)** (Award number: OIA-1920920). Program Officer: Dr. Ann Stapleton. Total award amount: \$3,999,999. Project Period: 08/01/2019 – 07/31/2023. Collaborators: Donald Adjero, Yuri Zarate, Umesh Reddy, Xintao Wu.
16. **[Role: PI]** Social Cybersecurity Research Infrastructure Development: Novel Socio-Computational Methodologies to Model Emerging Cyber-social Threats. This project is funded by the **U.S. Office of Naval Research (ONR)** (Award number: N00014-19-1-2336). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$2,399,867. Project Period:

06/18/2019 - 01/09/2022.

17. **[Role: Co-PI]** Detection of Crowd Manipulation in Social Media. This project is funded by the **U.S. Department of Defense (DOD)/Office of Naval Research (ONR)** under STTR Phase 1, Topic N19A-T024 (Award number: N68335-19-C-0359). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$150,000. Project Period: 06/01/2019 – 05/31/2020. Collaborators: IAI.
18. **[Role: PI]** Developing Predictive Model for Deviant Cyber Flash Mobs. This project is funded by the **U.S. Army Research Office (ARO)** under Social and Cognitive Networks program within the Network Sciences division (Award number: W911NF-16-1-0189). Program Officer: Dr. Edward Palazzolo. Total award amount: \$149,199. Project Period: 06/01/2019 - 05/31/2020.
19. **[Role: Co-PI]** Near Real Time Assessment of Emergent Complex Systems of Confederates. This project is funded by the **U.S. Department of Defense (DOD)/Office of Naval Research (ONR) under Multidisciplinary University Research Initiative (MURI)**, Topic #15: Novel Approaches to Modeling Factions and Conflict (Award number: N00014-17-1-2675). Program Officer: Dr. Martin Kruger. Total award amount: \$7,500,000. Project Period: 09/01/2017 - 08/31/2022. Collaborators: Kathleen M. Carley (CMU), Kiron Skinner (CMU), Zico Kolter (CMU), Matthew E. Brashears (University of South Carolina Columbia), Tymofiy Mylovanov (University of Pittsburgh), Dmytro Ostapchuk (VoxUkraine, Ukraine).
20. **[Role: PI]** Arkansas Research Alliance fellowship. Total award amount: \$75,000. Project period: 01/01/2019 - 12/31/2021.
21. **[Role: PI]** Developing Novel Socio-computational Methodologies to Analyze Multimedia-based Cyber Propaganda Campaigns. This project is funded by the **U.S. Office of Naval Research (ONR)** (Award number: N00014-17-1-2605). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$1,530,778. Project Period: 06/01/2017 – 05/31/2020.
22. **[Role: Co-PI]** Large-scale Medical Informatics for Patient Care Coordination and Engagement. The research project is funded by the **U.S. National Science Foundation's (NSF) Big Data Regional Innovation Hubs (BD Spokes)** program. Total award amount: \$1,000,000. Project Period: 09/01/2016 - 08/31/2020. Collaborators: Gari Clifford (Emory University), Indranil Bardhan (UT-Dallas), Herman Taylor (Moore School of Medicine), Donald Adjero (West Virginia University), Ahmed Abbasi (Virginia University), Christopher Rozell (Georgia Tech).
23. **[Role: PI]** SBP 2017-2019 Conference Sponsorship Grant Proposal. This project is funded by the **U.S. Army Research Office's (ARO)** Modeling of Complex Systems program (Award number: W911NF-17-1-0138). Program Officer: Dr. Leonard Wilkins Jr./Joseph D. Myers. Total award amount: \$63,000. Project Period: 03/23/2017 - 01/19/2020.
24. **[Role: PI]** Towards Predictive Modeling Deviant Cyber Flash Mobs: A Socio-Informatics Driven Hypergraph Framework. The project is funded by the **U.S. Army Research Office (ARO)** under Social and Cognitive Networks program within the Network Sciences division (Award number: W911NF-16-1-0189). Program Officer: Dr. Edward Palazzolo. Total award amount: \$300,000. Project Period: 06/01/2016 - 05/31/2019.
25. **[Role: Co-PI]** Socio-computational Predictive Methods to Detect and Mitigate Bot Activity in Novel Information Environments. The research project is funded by the **DARPA Small**

- Business Innovation Research (SBIR) Phase-2** grant (Award number: W31P4Q-17-C-0059). Program Officer: Dr. Jonathan Pfautz. Total award amount: \$1,000,000 (UALR portion \$345,781). Project Period: 09/01/2016 - 08/31/2019. Collaborators: Intelligent Automation, Inc.
26. **[Role: PI]** Analyzing Integrated Social Media-Facilitated Propaganda Campaigns using Social Network Analysis and Cyber Forensics. This project is funded by the **U.S. Office of Naval Research (ONR)** under Thrust Code 341 (Award number: N00014-16-1-2412). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$190,000. Project Period: 05/01/2016 - 09/30/2018.
 27. **[Role: PI]** Conference Sponsorship: Tenth International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP). This project is funded by the **U.S. Office of Naval Research (ONR)** (Award number: N00014-17-1-2461). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$25,000. Project Period: 05/01/2017 - 04/30/2018. Role: PI.
 28. **[Role: Co-PI]** A Socio-computational Model for 'Social Bot' Detection: Understanding tactical and strategic information maneuvers through social media to advance cyber operations. The research project is funded by the **Department of Navy's Small Business Technology Transfer (STTR)** Phase-1 grant (Award number: N00014-15-P-1187). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$150,000. Project Period: 08/01/2015 - 08/31/2016. Collaborators: Intelligent Automation, Inc.
 29. **[Role: PI]** Data-Intensive High-Density Computational Equipment for Research on Monitoring Cyber Warfare Tactics through Social Media. The project is funded by the **U.S. Office of Naval Research (ONR)** under Defense University Research Instrumentation Program (DURIP) (Award number: N00014-16-1-2016). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$85,964. Project Period: 08/15/2015 - 12/31/2016.
 30. **[Role: Co-PI]** MRI: Acquisition of Peta-Scale Data Storage System for Big Data Exploration in STEM Fields. The research project is funded in part by the **U.S. National Science Foundation's (NSF)** Advanced Cyberinfrastructure (ACI) program (Award number: ACI-1429160). Total award amount: \$291,908. Project period: 09/01/2014 - 08/31/2017. Collaborators: Kenji Yoshigoe, Marcus Seigar, John Talburt, and Jerry Darsey.
 31. **[Role: Co-PI]** SBP 2015 Outreach Efforts to Increase Diversity and Participation of Minorities. The research project is funded by the **U.S. National Science Foundation** (Award number: IIS-1523458). Total award amount: \$19,836. Project Period: 02/01/2015 - 01/31/2017. Collaborators: Donald Adjero.
 32. **[Role: PI]** Social Media Categorization Study. The project is funded by the **U.S. Air Force Research Lab (AFRL)**. Program Officer: Dr. Laurie Fenstermacher. Total award amount: \$150,000. Project Period: 05/01/2014 - 01/31/2016. Role: PI. Collaborators: Huan Liu.
 33. **[Role: PI]** Predictive Modeling of Cyber Flash Mobs: Understanding Emerging Sociotechnical Behaviors for Conflict Monitoring. The project is funded by the **U.S. Office of Naval Research (ONR)** under Thrust Code 341 (Award number: N000141410489). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$160,000. Project Period: 05/01/2014 - 03/31/2016.

34. **[Role: PI]** SBP 2014-2016 Conference Sponsorship Grant. The project is funded by the **U.S. Army Research Office's (ARO)** Modeling of Complex Systems program (Award number: W911NF-14-1-0023). Total award amount: \$15,000. Project Period: 01/10/2014 - 11/09/2016.
35. **[Role: Co-PI]** SBP 2012 Outreach Efforts to Increase Diversity and Participation of Minorities. The project is funded by the **U.S. National Science Foundation's (NSF)** Human Centered Computing Program (Award number: IIS-1225981). Total award amount: \$16,640. Project Period: 03/01/2012 - 2/28/2013. Collaborators: Donald Adjero.
36. **[Role: PI]** Cyber-collective Movements: Novel Socio-computational Approaches in Studying the Blogosphere. The research project is funded in part by the **U.S. National Science Foundation's (NSF)** Social-Computational Systems (SoCS) Program and Human Centered Computing (HCC) Program (Award number: IIS-1110868 and IIS-1110649). Total award amount: \$742,044. Project Period: 09/01/2011 - 05/30/2016. Collaborators: Rolf Wigand and Merlyna Lim.
37. **[Role: Co-PI]** Blogtrackers: Analyzing Social Media for Cultural Modeling. The research project is funded by the **U.S. Office of Naval Research (ONR)** under Thrust Code 341 (Award number: N000141010091). Program Officer: Dr. Rebecca Goolsby. Total award amount: \$334,791. Project period: 05/01/2010 - 12/30/2013. Collaborators: Huan Liu and Merlyna Lim.

Research Thrusts *(A list of publications resulting from these projects is provided at the end)*

1. **Information Tactical and Strategic Maneuver through Social Media:** Working closely with the NATO officers, U.S. Army Research Office (ARO), U.S. Office of Naval Research (ONR), and U.S. Air Force Research Laboratory (AFRL) scientists, the research analyzes data from blogs, Twitter, YouTube, and other social media platforms that are pushing disinformation and misinformation to identify efforts to weaponize information, automated and coordinating agents (e.g., Twitter botnets, botmasters, and YouTube bots), tactics (e.g., blog farms or link farms), etc. The research boils down reams of data into relevant information that helps policymakers in the decision-making process, and also helps counteract disinformation and propaganda campaigns circulating out there. The research led to an understanding on how state or non-state actors strategically uses CYBER operations to push messages. The research has implications in the development of technology, programs of training and education for Disarmament, Demobilization, and Reintegration (DDR), and new operational arts to support peacebuilding and discourage violence and civil unrest in conflict-torn and post-conflict societies. **This research is supported by the U.S. Army Research Office (ARO), U.S. Office of Naval Research (ONR), U.S. Air Force Office of Scientific Research (AFOSR), and Defense Advanced Research Projects Agency (DARPA).**

With support from the U.S. Department of Defense, the research has been transitioned into usable software (viz., Blogtrackers and YouTubeTracker), assisting NATO Strategic Communications and public affairs, Singapore Ministry of Communication and Information, European Defense Agencies, and others. These tools are enlisted by the U.S. Department of State's Global Engagement Center in the National Tech Innovation Hub to defeat foreign-based propaganda. This research has resulted in several publications being recognized with **best paper awards**.

2. **Sociotechnical Behavior Modeling for Cognitive Threats Mitigation:** Due to the afforded anonymity and perceived less personal risk of connecting and acting online, deviant sociotechnical behaviors are becoming increasingly common to stoke civil unrest, effect civil conflict, or coordinate attacks. Such deviant behaviors are categorized as the new face of transnational crime organizations (TCOs) that pose significant risks to social, political, and economic stability. The research develops capabilities that the military operations need in order to manage and adapt to the information ecology. Specifically, the research develops socio-computational models to understand the dynamics of various social processes, such as group formation, activation, decentralized decision making, and collective actions that influence beliefs and behaviors. The work identifies measurable signals to track the evolution of a deviant behavior, thereby acting as a “conflict thermometer” to assess the state of the discontent and unrest among the people and help design risk-averse strategies to enhance human security for NATO forces, U.S. and allied forces, citizens, and international workers. **This research is supported by the U.S. Office of Naval Research (ONR).** The outreach and educational activities under this research effort are supported in part by the grants from the **U.S. National Science Foundation’s (NSF)** Cyber Human Systems (formerly, Human Centered Computing program) and the **U.S. Army Research Office’s (ARO)** Modeling of Complex Systems program. This research has resulted in several publications being recognized with **best paper awards**.

3. **AI-based Integrative Approach to Smart Health Initiatives:** One of the most pressing problems facing the United States today is rapid growth in healthcare cost. For southern US, this problem is more acute. We could reduce healthcare cost by use of technology, especially AI and data-driven algorithms. Such algorithms must, however, contend with the very nature of digital health data. Health data is complex and diverse, and comes in large quantities, from longitudinal data on patient conditions, to data on diagnostic and therapeutic services including prescription drugs and medical images, to genomic and proteomic data about patients, to behavioral data from social media and wearable devices. The recent explosive growth in both the quantity and diversity of digital health data has compounded the data analysis gap. Moreover, despite the euphoria on the resurgence of AI, critical challenges in AI still remain, e.g., on the problem of human understanding and trusting AI results, the safety of AI systems, their ability to perform long-term predictions, especially from heterogeneous multi-view data, the issues of bias in training data and its impact, automated parameter optimization, and computation.
 Through a strong, cross-disciplinary collaboration between researchers from several universities across southern U.S., exploiting their combined expertise to tackle challenging problems in two specific domains: AI and smart health. Achieving this vision will have major impacts on three fronts: (1) reducing the scourge of poor health in southern U.S.; (2) slowing the rapid growth in healthcare costs, in southern states in particular, and across the U.S. in general; (3) enabling new economic transformation in southern US through improved workforce development in leading-edge technology areas of data science, AI, and smart health.
 This research has three specific aims: (Aim 1) AI Foundations & Big Data: to develop novel and advanced AI techniques for collection, analysis, and understanding of massive-scale datasets; (Aim 2) AI in Smart Health: to deploy new AI techniques to digital health

applications, addressing two key health challenges in southern U.S., namely, (i) cardiovascular diseases (CVD), and (ii) opioid misuse and addiction; (Aim 3) Education and Workforce Development: to embark on sustained and inclusive workforce development in high-tech areas of AI and smart health, building on the outcomes from Aims 1 and 2.

To accomplish the aims, the research team is (1) developing a human-centered approach for integrating electronic health records with data collected “in the wild” (including crowd-sourced data streams using data from mobile and sensor-based sources as well as external databases such as social network and weather data); (2) developing methods and a framework for evaluating accuracy within these data; (3) creating a cloud-based infrastructure that will improve tracking of study participants and, ultimately, engagement of patients and coordination of patient care; and (4) providing educational and community outreach to empower participants to co-create applications for deployment.

The research is supported by the U.S. National Science Foundation (NSF).

4. **Social Media Characterization:** Efficient data analysis techniques are developed to provide open source intelligence (OSI) from social media interactions to support situation awareness, risk assessment, mission assessment, and an over all mission effectiveness. Information is extremely critical for efficient complex military operations, military-civil affairs, and public affairs across a broad spectrum of conflict and human security. On the same hand, more information does not always imply more effectiveness. With the advance of modern Information and Communication Technologies (ICTs), especially the participatory media (social media or the Web 2.0), information analysts find themselves inundated with data, or rather the “big data”. A fundamental and systematic understanding of the social media platforms is developed to conduct studies at foundational level addressing a critical knowledge gap in studying the emerging sociotechnical behaviors. The implication of the research lies in supporting operational targeting and designing kinetic/non-kinetic strategies to tackle emerging sociotechnical behaviors. **The research is supported by the U.S. Air Force Research Lab (AFRL).**
5. **Cyber-Collective Action:** Using the global female Muslim blogosphere, the research aims to understand the complexity of cyber-collective action, develops theoretical underpinnings and experimental tools to study cyber-collective movements. Despite the exponential growth of Internet users in Muslim countries, there is a lack of empirical study of socio-political uses of the technology for expressing opinions and mobilizing individuals in these countries. The female Muslim blogosphere affords a test-bed for two reasons: First, while research shows that three of four females online are active social media users, very little research attempts to understand social, cultural and political roles of female bloggers and collectivity among female social groups. Second, the domain epitomizes an important contrast deserving attention, because female Muslim Internet users find social media as a digital recourse to exercise their freedom of speech (and many other gender-biased laws) if compared to their physical and repressively controlled spaces.

Novel algorithms have been developed for modeling cyber-collective movements by utilizing existing social theories on collective action and computational social network, filling a critical research gap in the contemporary collective action literature. This work bridges the gap between qualitative and quantitative evaluation measures. The lessons learned from this research create greater synergies between social science and computational

science. Data collected from this research has implications for various interdisciplinary research endeavors, especially in human-computer interaction, organizational behavior, political communication, and computational social network analysis, among others. Members of underrepresented groups, especially female bloggers play an essential role in the research, lending insights into the idiosyncrasies of their sociotechnical behavior advancing our understanding of the female demographics, thus making a significant impact on society at large. Educational impacts include the creation of much-needed interdisciplinary courses and training undergraduate, graduate and doctoral students by involving them at all stages of the research. **This research is supported by the U.S. Office of Naval Research, U.S. Army Research Office, U.S. Air Force Research Laboratory, U.S. Air Force Office of Scientific Research (AFOSR), and U.S. National Science Foundation's (NSF) Social-Computational Systems (SoCS) program and Cyber Human Systems (formerly, Human Centered Computing program). SoCS is a highly competitive NSF program with less than 7% success rate. This research has resulted in a 'Best Information System Publication of 2012' award.**

6. **Web-scale Information Processing and Social Computing Tools:** To process 'big data' from social media sources, the research has developed efficient information processing and data mining algorithms. To provide a perspective, a conservative estimate by the GovLab at the New York University reported that 2.5 billion gigabytes of data was created every day in 2012, of which 68% was the user generated content or data from social media sites, with no signs of slowing down, in fact doubling up every month. Our social computing research has developed novel algorithms that have far-reaching implication in processing massive amounts of data and extracting actionable knowledge. These algorithms have been implemented as software tools and made publicly available to researchers and practitioners at, <https://btracker.host.ualr.edu>, <https://vtracker.host.ualr.edu>, <https://cosmos.ualr.edu/covid-19>, and <http://fsa.host.ualr.edu>. **These initiatives have been supported in part by the U.S. Office of Naval Research (ONR) under ONR DURIP, ARO, AFRL, AFOSR, and the U.S. National Science Foundation's (NSF) Advanced Cyberinfrastructure (ACI) program.**
7. **Collective Context-Based Privacy:** Social media sites have afforded extreme convenience in sharing information over the Internet, including even sensitive financial or health-related data. Although the websites provide their data sharing policies and allow the users to configure privacy settings, these configuration procedures are often quite intricate assuming the users at par with the technological know how. Further, evolving privacy policies and the paradigmatic shift of content ownership and accessibility pose interminable challenges for the users to keep up. As a result, users may inadvertently grant access to their personally identifiable leading to privacy threats. Consequently, malicious efforts to compromise users' data are on the rise exacerbating the problem. Existing privacy models i.e., content, user, or role-based are limited in addressing the challenges posed by the changing information sharing and ownership landscape. This warrants thinking beyond the existing privacy models and consider the context in which the information is accessed. In this research, we implement a context based privacy model (CBPM) that allows users to define their own contexts and specify fine-grained policies. Considering the needs of a common user, CBPM is extended to automate privacy recommendations in social media domain leveraging the principle of

collective intelligence and trust from social network information. The framework is known as Collective-Context Based Privacy Model (C-CBPM). The C-CBPM framework allows users to *selectively* donate their privacy policies and *selectively* adopt from the donated privacy policies. The collective intelligence principle helps weed out donations from less trusted users making the model more efficient and less vulnerable to malicious donations.

The C-CBPM is validated on Facebook and its efficacy is demonstrated by implementing in various application domains such as, humanitarian assistance and disaster relief operations. This work is supported in part by grants from **U.S. Office of Naval Research (ONR)** and **U.S. National Science Foundation (NSF)**. This research has resulted in several publications being recognized with **best paper awards**.

8. **Democratization of Curriculum Development:** Due to the rapidly evolving Information System (IS) technologies, instructors find themselves stuck in the constant game of catching up. On the same hand students find their skills obsolete almost as soon as they graduate. As part of IS curriculum and education, we need to emphasize more on teaching the students 'how to learn' while keeping the curriculum up to date. Toward this direction, a collective learning based extension to traditional learning paradigms is developed leveraging social media and implemented in three IS courses at the University of Arkansas at Little Rock. Collective learning extension creates a wiki-based curriculum development strategy that produces a nimble curriculum by facilitating student-student and student-content engagement. The developed model encourages collaborative and participatory learning among students and promotes self-learning, critical thinking, and non-linear learning skills. Collective learning extension emphasizes teamwork, coordination, and strengthening interpersonal skills, preparing the students as the next-generation workforce. Using social network analysis methodologies, promising capabilities of the model for encouraging collaboration among students are demonstrated. This work is supported by the **U.S. National Science Foundation (NSF)**.

AWARDS & RECOGNITIONS

1. **Best paper nomination** for our paper on "Exposure, Skepticism, and Switching: A Behavioral Model of Narrative Diffusion" published at the 59th Hawaii International Conference on System Sciences (HICSS), January 6-9, 2026. Maui, Hawai'i, USA.
2. **Best paper nominee** for our paper on "Probabilistic Soft Logic for Toxic Intent Prediction in Conversation: A Moral Foundations Theory-Driven Neural-Symbolic Framework. published at the 59th Hawaii International Conference on System Sciences (HICSS 2026), January 6-9, 2026. Maui, Hawai'i, USA.
3. **Best Paper Award** for our paper on "Analyzing Democratic Trust Through Symbolic Communication: A Case Study of Taiwan's Presidential Election" published in the proceedings of the 18th International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2025), October 14-17, 2025, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA.
4. **Best Paper Award** for our paper on "Modeling Quarantine Intervention for Varied Toxic Intensities" published in the proceedings of the 15th International Conference on Social

Media Technologies, Communication, and Informatics (SOTICS 2025), September 28 - October 02, 2025, Lisbon, Portugal.

5. **Featured in The Baltimore Sun** in an article on "Maryland lawmakers prepare to rein in and unleash AI" by Jeff Barker. October 13, 2025. Baltimore, Maryland, USA.
6. **Featured in "Executive Q&A with Nitin Agarwal" in Arkansas Business magazine.** September 8, 2025. Little Rock, Arkansas.
7. **Top 25% Papers** recognition awarded to our paper on "Digital Symbols and Democratic Trust: A Study of Visual Elements in YouTube Content" published in the proceedings of the 31st Americas Conference on Information Systems (AMCIS 2025). August 14-16, 2025, Montreal, Canada.
8. **Best Paper Award** for our paper on "From Metadata to Meaning: GPT-4 Reveals Bias Trends in YouTube" published in the proceedings of the First IARIA International Conference on AI-based Media Innovation (AIMEDIA 2025), July 06, 2025 to July 10, 2025, Venice, Italy.
9. **Featured in Q&A with Arkansas Center for Data Science** on Cognitive Warfare, published on June 27, 2025.
10. **Best Paper Award** for our paper on "Identification and Characterization of Content Traps in YouTube Recommendation Network" published at the 17th International Conference on Information, Process, and Knowledge Management (eKNOW 2025), May 18 - 22, 2025. Nice, France.
11. **Best Paper Award** for our paper on "Resilience and Node Impact Assessment in YouTube Commenter Networks Leveraging Focal Structure Analysis" published at the Eleventh International Conference on Human and Social Analytics (HUSO 2025), March 09 - 13, 2025. Lisbon, Portugal.
12. **Best paper nomination** for our paper on "Analyzing TikTok's Role in Mobilizing Dynamics for Information Campaigns during Taiwan's 2024 Elections" published at the 58th Hawaii International Conference on System Sciences (HICSS), January 7-10, 2025. Big Island, Hawaii'i, USA.
13. **Featured in Arkansas Money and Politics** for joining the initiative on safe AI implementation in the Arkansas government. December 2, 2024.
14. **Spoke with NewsWise's Curious by Nature** on "The Good, Bad, and Ugly of Online Behavior". November 22, 2024.
15. **Best Paper Award** for our paper on "Examining the Impact of Toxicity on Community Structure in Social Networks" published at the Fourteenth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2024), September 29 - October 03, 2024, Venice, Italy.
16. **Panelist for "Issues That Matter: Digital Dilemmas"** on "Rise in AI/misinformation!," KUAR/NPR, September 28, 2024. [YouTube stream].
17. **Guest column in Arkansas Center for Data Sciences** on "AI and Deepfakes" published on March 24, 2024.

18. **Featured in Arkansas Democrat Gazette** for receiving a \$5 million grant from the US Army Research Office to combat the misinformation disease that has spread like cancer. December 2, 2023.
19. **Featured in KUAR Newscast** (at 3:10 mark) for receiving a grant to study "cognitive attacks" online. November 29, 2023.
20. **Featured by Arkansas Business** for receiving \$5 million in funding from the US Army to combat social media manipulation. November 27, 2023.
21. **Featured by Arkansas Talk Business and Politics** for receiving a \$5 million grant from the US Army to study information campaigns. November 27, 2023.
22. **Featured by KARK** for being awarded \$5 million from the US Army Research Office to fight online disinformation. November 27, 2023.
23. **Featured by Fox16 Arkansas** for receiving a \$5 million grant from the US Department of Defense/Army Research Office to fight online disinformation. November 27, 2023.
24. **Featured in Arkansas Advocate** for receiving a \$5 million grant from the US Army for anti-disinformation research. November 28, 2023.
25. **Received Distinguished Service Award** from IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2023) for exemplary service to the research community as conference co-chair, November 8, 2023, Kusadasi, Turkey.
26. Economic impact of my research and innovation-driven contributions to Arkansas were featured in the "Impact Study: Competing for Arkansas' Future" by **Arkansas Research Alliance**. September 13, 2023
27. **Appeared on the Braver Angels podcast** "On The Other Hand" to speak about Social Media Influence, published on August 30, 2023. Part 1 | Part 2
28. **Guest column in Arkansas Center for Data Sciences** on "The Technology of Influence" published on August 24, 2023.
29. **Featured in Arkansas Business** "UA Little Rock's Nitin Agarwal Pioneering 'Social Computing'" by Lara Farrar. July 10, 2023.
30. **Best Paper Award** for our paper on "Commenter Behavior Characterization on YouTube Channels," published at the Fifteenth International Conference on Information, Process, and Knowledge Management (eKNOW 2023), April 24 – 28, 2023, Venice, Italy.
31. **Featured in Arkansas Business** for receiving a grant from the US National Science Foundation (NSF) to study social media safety. April 10, 2023.
32. **Best Paper Award** for our paper on "Comparing Toxicity Across Different Social Media," published at the Ninth International Conference on Human and Social Analytics (HUSO 2023), March 13 – 17, 2023, Barcelona, Spain.
33. **Best Paper Award** for our paper on "Examining Content and Emotion Bias in YouTube's Recommendation Algorithm," published at the Ninth International Conference on Human and Social Analytics (HUSO 2023), March 13 – 17, 2023, Barcelona, Spain.

34. **Interviewed by James Morgan at the Arkansas Center for Data Science in the ACDS January 2023 Newsletter** on the current state of the social media. “Q & A with Nitin Agarwal: January 2023”, January 20, 2023.
35. **Best Paper Nomination** for our paper on “Measuring the Interference Effect of Bots in Disseminating Opposing Viewpoints Related to COVID-19 on Twitter Using Epidemiological Modeling” published at the 56th Hawai’i International Conference on System Sciences (HICSS), January 3-6, 2023, Maui.
36. **Best Presentation Award** for our paper on Multimodal Characterization of Emotion within Multimedia Space presented at the International Conference on Computers and Computation (COMPUTE 2022), November 03-04, 2022, San Francisco, United States.
37. **Best Paper Award** for our paper on A Multidimensional Analysis of YouTube Communities in the Indo-Pacific Region. The Twelfth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2022), October 16 – 20, 2022, Lisbon, Portugal.
38. **Best Paper Award** for our paper on Extracting and Visualizing Narratives from Social Video Sharing Platforms. In Proceedings of the Eighth International Conference on Human and Social Analytics (HUSO 2022), May 22 – May 26, 2022, Venice, Italy.
39. Awarded **Top Complete Paper** for our study entitled “A Computational Framework for Analyzing Social Behavior in Online Connective Action: A COVID-19 Lockdown Protest Case Study” at the Americas Conference on Information Systems (AMCIS 2022). August 10-14, 2022, Minneapolis, Minnesota, USA.
40. **Our [COVID-19 Misinformation tracker](#) was recognized by the World Health Organization (WHO)** as one of the [key technological innovations](#) developed across the world to address the COVID-19 pandemic. February 21, 2022
41. **Interviewed by FM 89.1 KUAR** (Remington Miller) about the [grant to research covert online information campaign](#). February 8, 2022.
42. **Featured in [Arkansas Business](#), [The Ritz Herald](#), and [India West](#)** for receiving a grant by the US Department of Defense to study covert online information campaigns. Feb 1, 2022.
43. **Featured in ITArkansas** “[When did Social Media become Anti-social Media? With Dr. Nitin Agarwal](#)”. January 2022.
44. **[Best Paper Award](#)** for our paper on Developing Situational Awareness from Blogosphere: An Australian Case Study. In Proceedings of the Eleventh International Conference on Social Media Technologies, Communication, and Informatics ([SOTICS 2021](#)), October 3-7, 2021, Barcelona, Spain.
45. **Recognized as one of the [10 teams by NATO](#)** from 132 teams across 30 member nations that offer solutions to the challenge titled “The Invisible Threat: [Countering Cognitive Warfare](#)” organized by NATO’s Innovation Hub. November 30, 2021.
46. **Featured in “[This Month’s Q&A Interview](#)”** with James Morgan from Arkansas Center for Data Sciences. November 23, 2021.
47. **Won the Disinformation Challenge Award** for our paper on Optimizing Response Time to Minimize Spreading of Conspiracy Theories in Dynamic Social Networks at the 2021

International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation ([SBP-BRiMS 2021](#)), July 6-9, 2021, Washington D.C.

48. **Best Paper Award** for our paper on Studying the Dynamics of COVID-19 Misinformation Themes using Topic Streams. In proceedings of The Seventh International Conference on Human and Social Analytics ([HUSO 2021](#)), July 18-22, 2021. Nice, France.
49. **Featured in [Daily Record](#), [Arkansas Money & Politics](#), [Magnolia Reporter](#), [India West](#)** for receiving a grant by the US Department of Defense to investigate covert online influence. August 18, 2021.
50. Recipient of **2021 UALR Faculty Excellence Award for Research and Creative Endeavors**.
51. Recipient of the **2021 Donaghey College of Science Technology Engineering and Mathematics Faculty Excellence Award for Research and Creative Endeavors**.
52. **Featured in Arkansas Money & Politics' Discover Economics** magazine as Social Media Warrior, December 16, 2020.
53. Research on How YouTube spreads COVID-19 misinformation **featured in Democracy Labs**, December 14, 2020.
54. Research featured in **Arkansas Democrat Gazette**, UALR hub of misinformation study – Professor's work on bots, other information tech draws \$15M in funding by Frank Lockwood, November 2, 2020.
55. **Best Paper Award** for our paper on YouTube Video Categorization Using Moviebarcode. In proceedings of the Sixth International Conference on Human and Social Analytics (HUSO 2020), October 18-22, 2020, Porto, Portugal.
56. **UALR Student Advocate Award** 2019-2020. Little Rock, Arkansas.
57. **Association to Advance Collegiate Schools of Business (AACSB)** published my article on Combatting Disinformation in the Digital World on May 22, 2020.
58. **Interviewed by KARK Channel 4 (Arkansas)** for "Local group helps to stop the spread of COVID-19 misinformation", May 19, 2020.
59. **Interviewed by KATV Channel 7 (Arkansas)** for Identifying misinformation and myths about COVID-19, May 12, 2020.
60. **Recognized as a Fellow of the Arkansas Research Alliance** by Gov. Asa Hutchinson, December 13, 2018, Little Rock, Arkansas.
61. **Recognized as a Fellow of the Arkansas Academy of Computing**, November 6, 2018, Fayetteville, Arkansas.
62. Recipient of the **Best Paper Award** at the International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2018) for our paper on Understanding Digital Ethnography: Socio-computational Analysis of Trending YouTube Videos, October 14-18, 2018, Nice, France.
63. Recipient of the **Best Paper Award** at the International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2017) for our paper on Assessing

Situation Awareness through Blogosphere: A Case Study on Venezuelan Socio-Political Crisis and the Migrant Influx, October 8 - 12, 2017, Athens, Greece.

64. **Recognized as IARIA Fellow.** IARIA is the International Academy, Research and Industry Association. Every semester IARIA recognizes roughly 10 scientists world-wide for their, outstanding scientific research results endorsed by international peers, exceptional scientific contribution to the IARIA events, and continuous leadership roles in IARIA conferences.
65. Recipient of the **Best Paper Award** for our paper on Understanding User-Based Modifications to Information Quality in Response to Privacy and Trust Related Concerns in Online Social Networks. In Proceedings of the sixth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2016), August 21 - 25, 2016, Rome, Italy.
66. Recipient of the **Best Paper Award** for our paper on ‘Helping Hands of Autism Blogger Community in Social Media Platforms’ appeared in the Proceedings of the fifth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2015), November 15 - 20, 2015, Barcelona, Spain.
67. Recipient of **Jerry L. Maulden-Entergy Endowed Chair Professorship** of Information Science at UALR.
68. Recipient of the **2015 UALR Faculty Excellence Award for Research and Creative Endeavors.** Winners are selected by a panel of national judges who review the achievements of the college-level winners. UALR News, <http://ualr.edu/news/2015/04/17/ualr-recognizes-faculty-excellence-at-27th-annual-awards-ceremony/>
69. Recipient of the **2015 Donaghey College of Engineering and Information Technology Faculty Excellence Award for Research and Creative Endeavors.** UALR News, <http://ualr.edu/eit/2015/06/29/dr-nitin-agarwal-awarded-2015-faculty-excellence-award-in-research/>
70. Recipient of the **Social Media 2015 Educator of the Year Award** by the 21st International Education and Technology Conference, Cyberport, Hong Kong SAR, China, 10-12 April 2015. The Educator of the Year award is to recognize the Springer author/educators who have made/are making a difference in the ICT Education/Research.
71. **Best IS Publication of 2012 Award** given to the best among all articles published in all Information Systems journals worldwide in 2012 by the Senior Scholars Consortium of Association for Information Systems (AIS), for the article mentioned below. The article was nominated by the journal (BISE) editors and chosen from many other nominations from all information systems journals worldwide by the Senior Scholars Consortium of Association for Information Systems.

Nitin Agarwal, Merlyna Lim, and Rolf T. Wigand. “Raising and Rising Voices in Social Media: A Novel Methodological Approach in Studying Cyber-Collective Movements”. Business & Information Systems Engineering (BISE) Special Issue on IS and Culture, Dorothy Leidner (Ed.), WIRTSCHAFTSINFORMATIK. 2012. DOI: 10.1007/s12599-012-0210-z (English); 10.1007/s11576-012-0317-3 (German translation)

AIS website URL: <http://aisnet.org/general/custom.asp?page=BestPublicationsAward>

72. IEEE Computer Society **Certificate of Appreciation for outstanding service** as Tutorials Co-Chair for the ACM/IEEE Advances in Social Networks Analysis and Mining (ASONAM 2013) committee.
73. Recognized among **Top 20 Influentials in 20ies** in 2012 by Arkansas Business for being creative and talented individuals who have found early success in their profession and show future potential to step up as a leader in Arkansas business or politics.
74. **Featured in Arkansas Business'** special issue on Arkansas Research & Innovation. Cutting Edge Research Strives for Important Breakthroughs. Vol. 29, No. 28, pp. 14. July 9, 2012.
75. **Best paper award** for "CBPM: Context Based Privacy Model" in the 2nd International Symposium on Privacy and Security Applications (PSA-10) held in conjunction with IEEE International Conference on Privacy, Security, Risk, and Trust (PASSAT 2010). August 20-22, 2010, Minneapolis, Minnesota. *Coverage in:*
 - a. NSF Science360 (<http://news.science360.gov/archives/20100826>),
 - b. US News (<http://www.usnews.com/science/articles/2010/08/26/ualr-research-creates-internet-privacy-tool.html>),
 - c. UALR News (<http://ualr.edu/www/2010/08/24/ualr-researchers-develop-internet-privacy-tool/>),
 - d. Dr Dobbs Journal (<http://www.drdobbs.com/security/227100040;jsessionid=BJ0CWEFDYTLXRQE1GHP SKH4ATMY32JVN>) and
 - e. PhysOrg (<http://www.physorg.com/news201884299.html>).
76. Recognized as an **Outstanding Ph.D.** student finalist by the School of Computing and Informatics at Arizona State University, Spring 2009.
77. Received Society for Industrial and Applied Mathematics (SIAM) Data Mining (SDM) Doctoral Forum Travel Award in 2009.
78. Research on Blog Mining has been acknowledged by the School of Computing and Informatics, Arizona State University as ground breaking (http://sci.asu.edu/news/publications/SCInewsletter_Fall08.pdf), pp. 10-11, Fall 2008.
79. Received multiple conference travel grants from Graduate Professional Students Association, Arizona State University and Division of Graduate Studies, Arizona State University.

TEACHING

Undergraduate Courses taught at UALR

1. Internet Technologies (IFSC 1310) offered in Fall 2013.
2. Ethics in Profession (IFSC 2200) offered in Summer 2011 and Fall 2012.
3. Systems Analysis and Design (IFSC 3360) offered in Spring 2010, Fall 2010, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2021, Fall 2022. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*
4. Computer Ethics (IFSC 4210/CPSC 4210) offered in Fall 2009.

Graduate Courses developed and taught at UALR

5. Social Computing (IFSC 4360/5360) offered in Fall 2009, Fall 2010, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Fall 2016, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Fall 2022, Fall 2023, Fall 2024, Fall 2025. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*
6. Social Media Mining and Analytics (IFSC 4399/5399) offered in Spring 2011, Fall 2014, and Fall 2015. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*
7. Research Methods in Information Science (IFSC 7399) offered in Spring 2023, Spring 2024, Spring 2025, Spring 2026. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*

Graduate Courses taught at UALR

8. Information Systems Analysis (IFSC 7310) offered in Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*
9. Database System/Information Architecture (IFSC 7320) offered in Fall 2011. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*

Graduate Courses taught at ASU

10. Social Computing and Web Analytics (CSE 494/598): Fall 2008, Arizona State University. Created in 2008. *Co-taught with Prof. Huan Liu.*

INVITED TALKS

1. Delivered invited talk on the panel on "LLMs influence on Social Networking and Social Media" at the **17th International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2025)**, August 25-28, 2025, Niagara Falls, Ontario, Canada.
2. Delivered invited talk on "Fighting Fire with Fire: Developing AI-enhanced Methodologies to Combat AI-enhanced Cognitive Threats" at the **UA Little Rock Provost Leadership Council**. August 21, 2025, University of Arkansas, Little Rock, USA
3. Delivered invited talk on "Fighting Fire with Fire: Developing AI-enhanced Methodologies to Combat AI-enhanced Cognitive Threats" at the **UA Little Rock DCSTEM Leadership Council**. Jul 24, 2025, University of Arkansas, Little Rock, USA
4. Delivered invited talk on "AI + Social Computing for Mitigating Cognitive Threats" at the **WVAR-CRESH: 2025 WVU Summer Workshop on AI, Digital Health & BioML, and NSF BridgesDH NRT Mini-Workshop Series**. July 21-23, 2025, West Virginia University, Morgantown, West Virginia, USA.
5. Delivered keynote on "Fighting Fire with Fire: Developing AI-enhanced Methodologies to Combat AI-enhanced Cognitive Threats" at the **2025 IARIA Annual Congress on Frontiers in Science, Technology, Services, and Applications (IARIA Congress 2025)**. July 6 - 10, 2025, Venice, Italy.

6. Invited to chair and talk at the panel on "The Challenges of Human Interaction in the Digital Age" at **the 17th International Conference on Information, Process, and Knowledge Management (eKNOW 2025)**. May 18 - 22, 2025, Nice, France.
7. Invited to the **CRA/CCC's "Grand Challenges for the Convergence of Computational and Citizen Science Research"** to share our research on Cognitive Security Challenges and Opportunities to Computational Citizen Science, Washington D.C., April 7-9, 2025.
8. Delivered Featured Faculty Talk for the **UA Little Rock Board of Visitors (BOV)** on "Fighting Fire with Fire: Mitigating AI-enhanced Cognitive Threats", UA - Little Rock, February 13, 2025. The talk was featured in the segment on "Research and Student Opportunities at COSMOS Research Center" in the BOV meeting agenda.
9. Delivered invited talk on "Fighting Fire with Fire: Examining and Mitigating Socio-Cognitive Threats", **Arkansas Attorney General Tim Griffin**, UA - Little Rock, December 4, 2024.
10. Delivered invited talk on "Fighting Fire with Fire: Examining and Mitigating Socio-Cognitive Threats", **Arkansas Academy of Computing (AAOC) Annual Meeting**, University of Arkansas - Fayetteville, October 12, 2024.
11. Delivered invited talk on "Fighting Fire with Fire: Examining and Mitigating Socio-Cognitive Threats", **DCSTEM Research Seminar**, UA - Little Rock, October 2, 2024.
12. Delivered invited talk on "Fighting Fire with Fire: Examining and Mitigating Socio-Cognitive Threats", **Project Scope, Arkansas Research Alliance**, October 2, 2024.
13. Delivered Keynote on "Understanding and Mitigating Collective Action-based Socio-cognitive Security Threats in a Multi-platform Multimedia-rich Information Environment" at **The Fourteenth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2024)**, September 29 - October 03, 2024, Venice, Italy.
14. Delivered invited talk on "Health Disinformation and Influence in Networks" for **WVAR-CRESH Summer Workshop on AI and Smart Health 2024**, West Virginia University, July 17-19, 2024. Video.
15. Delivered invited talk on "Understanding and Mitigating Collective Action-based Socio-cognitive Security Threats in a Multi-platform Multimedia-rich Information Environment" at **the Swedish Defense Research Agency (FOI)**, June 4, 2024, Stockholm, Sweden.
16. Delivered invited talk on "Developing Socio-computational Approaches to Mitigate Socio-cognitive Security Threats" at **the FBI's InfraGard Arkansas Members Alliance, Physical and Cybersecurity-1**, January 26, 2024, Little Rock, Arkansas, USA.
17. Delivered invited talk on "Developing Socio-computational Approaches to Mitigate Socio-cognitive Security Threats in a Multi-platform Multimedia-rich Information Environment" at **New York University's Computational Disinformation Symposium**. December 5, 2023.
18. Delivered invited talk on "Developing Socio-computational Approaches to Mitigate Socio-cognitive Security Threats in a Multi-platform Multimedia-rich Information Environment" at the **NATO Science & Technology Organization Symposium on Mitigating and Responding to Cognitive Warfare (STO-MP-HFM-361)**. November 13-14, 2023, Madrid, Spain.

19. Delivered tutorial on “Social Network Analysis and Health Disinformation” for **WVAR-CRESH Summer School on AI and Smart Health 2023**, West Virginia University, July 24-26, 2023.
20. Delivered invited talk on “A Comparative Analysis of the Effects of YouTube’s Recommendation Algorithm on Competing Narratives” at the **Lancaster University’s Centre for Computer Corpus Research on Language (UCREL)**, Computing & Communications, Linguistics and English Language, UCREL Corpus Research Seminar. June 29, 2023.
21. Delivered keynote on “Networks and Narratives: Characterizing Multiplatform Influence Campaigns to Strengthen Socio-cognitive Security” at the **2022 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2022)**, November 12, 2022, Istanbul, Turkey.
22. Delivered keynote on “Networks and Narratives: Characterizing Multiplatform Influence Campaigns to Strengthen Socio-cognitive Security” at the **International Conference on Modeling and Simulation of Social-Cultural Behavioral Phenomena in Creative Societies (MSBC-2022)**, September 21, 2022, Vilnius, Lithuania.
23. Delivered a talk on “Combating Socio-Cognitive Security Threats: Challenges and Technological Solutions” for the **2022 Southeast Symposium on Contemporary Engineering Topics (SSCET) – Cyber Security Track**, September 16, 2022, Little Rock, Arkansas.
24. Delivered a talk on “Characterizing Multiplatform Influence Campaigns to Strengthen Socio-cognitive Security” for the **DHS Border Security division**, September 9, 2022.
25. Delivered talk on “Networks and Narratives: Characterizing Multiplatform Influence Campaigns to Strengthen Socio-cognitive Security” at the Center on Narrative, Disinformation and Strategic Influence – an **Arizona State University’s Global Security Initiative**, meeting on “Narratives, Influence, and the South China Sea”, July 27, 2022, ASU-Washington D.C. Campus.
26. Delivered tutorial on “Social Network Analysis and Disinformation” for **WVAR-CRESH Summer School on AI and Smart Health 2022**, West Virginia University, July 25-27, 2022.
27. Delivered talk on “Multimedia Online Information Environment Characterization”, **U.S. Air Force Research Laboratory (AFRL)**, July 18, 2022. Online.
28. Delivered talk on “Combating Socio-Cognitive Security Threats: Challenges and Technological Solution” at the **National Extension Technology Community (NETC) Conference**, June 21, 2022, Little Rock, Arkansas.
29. Delivered talk on “Characterization of Video-based Online Information Environment” at the **Eighth International Conference on Human and Social Analytics (HUSO 2022)**, May 22-26, 2022. Venice, Italy.
30. Delivered talk on “Social Media and Networks” for NSF DART EPSCoR Track-1 funded project, **NSF Virtual Reverse Site Visit**. April 11, 2022.

31. Delivered talk on “Characterizing Multiplatform Influence Campaigns to Strengthen Socio-Cognitive Security” for the **Army Research Office’s (ARO) Social Network Analysis for Robust, Resilient, and Intelligent C3I Technology**. February 15, 2022.
32. Delivered invited talk on “Networks and Narratives: Deriving Actionable Insights through Social Computing” at the **20th IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology, special track on Social Computing**, Melbourne, Australia, December 14-17, 2021.
33. Delivered invited talk on “Networks and Narratives: Developing Research Infrastructure to Strengthen Socio-Cognitive Security” for **U.S. Senator John Boozman**, COSMOS Research Center, Little Rock, Arkansas, October 29, 2021.
34. Delivered invited talk on “Social Cybersecurity” at **UALR Do Your Part #BeCyberSmart panel for National Cybersecurity Awareness Month (NCSAM) event, a collaboration between the Department of Homeland Security (DHS) and the National Cyber Security Alliance**, Little Rock, Arkansas, October 21, 2021.
35. Delivered invited talk on “Combating COVID-19 Misinformation” at **UAMS Biomedical Informatics Research and Application Seminar**, Little Rock, Arkansas, October 7, 2021.
36. Delivered invited talk on “Combating COVID-19 Misinformation” at **Arkansas Research Alliance 2021 Annual Retreat**, Little Rock, Arkansas, October 1, 2021.
37. Delivered keynote on “Mechanics of Misinformation: What? How? and Why?” at the **Eleventh International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2021)**, Barcelona, Spain, October 03 – 07, 2021.
38. Delivered panel talk on “Combating COVID-19 Misinformation” at the **Eleventh International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2021)**, Barcelona, Spain, October 03 – 07, 2021. Panel on Health Mobility and Patient-empowering: Smart Solutions for Smart Cities and Living Environments.
39. Delivered invited talk on “Social Media and Networks” at the **Arkansas Economic Development Commission (AEDC)’s Data Analytics that are Robust and Trusted (DART) NSF EPSCoR Track 1 Annual Conference**, Little Rock, Arkansas, September 13, 2021.
40. Delivered invited talk on “A Virtual Tour of the COSMOS Center” at the **UALR’s College of STEM Colloquium**, Little Rock, Arkansas, September 3, 2021.
41. Delivered panel talk on “AI and Interpretability” for **WVAR-CRESH Summer School on AI and Smart Health 2021**, West Virginia University, July 22, 2021.
42. Delivered tutorial on “Combating COVID-19 Misinformation” for **WVAR-CRESH Summer School on AI and Smart Health 2021, West Virginia University**, July 22, 2021.
43. Delivered keynote on “Networks and Narratives: Bots, Trolls, and Mobs” at the **Seventh International Conference on Human and Social Analytics (HUSO 2021)**, July 18-22, 2021. Nice, France.
44. Delivered tutorial on “Socio-computational Analysis of Mobs: A Social Network and Cyber Forensic Approach” for **SBP-BRIMS 2021**, Washington D.C., July 6, 2021.

45. Delivered keynote on “Networks and Narratives: Bots, Trolls, and Mobs” at the **National Federation of Press Women conference**. June 12, 2021.
46. Delivered talk on “Media Matters: Innovations to Improve the Value Derived from Social Media Networks” at the **Arkansas Economic Development Commission (AEDC)**’s Data Analytics that are Robust and Trusted (DART) NSF EPSCoR Track 1 project. March 31, 2021.
47. Delivered talk on “Mining Data from the Wild: Inferring Actionable Insights” at the **Arkansas Research Alliance**, Project Scope. January 29, 2021.
48. Delivered featured faculty talk on “Mining Data from the Wild: Inferring Actionable Insights” for **First Orion Corp. leadership**. December 10, 2020.
49. Delivered featured faculty talk on “Mining Data from the Wild: Inferring Actionable Insights” for **Entergy Corp. leadership**. November 5, 2020.
50. Delivered tutorial on “YouTube Data Analytics: Revealing Computational Propaganda Techniques and Tactics” for **SBP-BRIMS 2020, Washington D.C.**, October 22, 2020.
51. Delivered a talk on “Studying COVID-19 Misinfodemic” at the COVID-19 misinformation panel at the 5th International Workshop on Mining Actionable Insights from Social Networks (MAISoN 2020) co-located with the 29th **ACM International Conference on Information and Knowledge Management (CIKM 2020)**, October 19, 2020
52. Delivered keynote on “Deviant Mobs of the Internet – Bots, Trolls, and Misinformation” at the Sixth **International Conference on Human and Social Analytics (HUSO 2020)**, October 18, 2020. Porto, Portugal.
53. Delivered an invited talk on “Mining Data from the Wild: Inferring Actionable Insights” at **UALR Alumni Board meeting**, August 26, 2020.
54. Delivered an invited talk on “Mining Data from the Wild: Inferring Actionable Insights” at **UALR Foundation Fund Board meeting**, August 19, 2020.
55. Delivered tutorial on “Social Network Analysis” for **WVAR-CRESH Summer School on AI and Smart Health 2020**, West Virginia University, July 20, 2020.
56. Delivered an invited talk for the **3rd Marines Expeditionary Forces (3-MEF) Information Group (3-MIG)** on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures”, July 16, 2020.
57. Delivered an invited talk on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” at **University of New Haven**, June 25, 2020.
58. Delivered an invited talk for **Air Force IO Group** on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures”, June 17, 2020.
59. Delivered an invited talk for **Joint Information Operations Warfare Center (JIOWC)** on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures”, May 14, 2020.
60. Delivered an invited talk at **DARPA** on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures”, December 6, 2019.
61. Delivered an invited talk on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” to **US Senator John Boozman**, November 15, 2019.

62. Delivered keynote on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” at the conference on **Understanding and Countering Online Falsehoods and Influence Operations, Singapore**, November 4-5, 2019.
63. Delivered an invited talk on “Mining Data from the Wild: Inferring Actionable Insights” at **Embry-Riddle Aeronautical University**, November 13, 2019.
64. Delivered an invited talk on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” at **University of New Haven**, October 30, 2019.
65. Delivered an invited talk on “Technical Academic Solutions for Policy Makers regarding Information-Related Hybrid Threats” at the **NATO’s Science for Peace and Security (SPS) Conference**, North Macedonia, October 6-12, 2019.
66. Delivered an invited talk on “Social Cyber Forensics” at the panel on Social Cyber Security at the **National Academies of Sciences** launch event for the Social and Behavioral Science (SBS) Decadal Survey, September 30, 2019, Washington D.C.
67. Delivered an invited talk on “Collaboratorium for Social Media and Online Behavioral Sciences (COSMOS)” to a multinational delegation from Europe under the International Visitor Leadership Program hosted by the **U.S. Department of State**, September 23, 2019.
68. Delivered keynote on “Modeling Deviant Cyber Behaviors: Bots, Trolls, and Information Operations” at the **International Conference on Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies (MSBC-2019)**, September 18–20, 2019, Vilnius, Lithuania.
69. Delivered an invited talk on “Socio-computational Methodologies to Analyze Cross-platform Cyber Propaganda Campaigns” at the **Office of Naval Research meeting, Washington D.C.**, August 19, 2019.
70. Delivered an invited talk on “Social Cyber Forensics” at the **SBP-BRiMS 2019 conference, Washington D.C.**, July 12, 2019.
71. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **U.S. Embassy, Singapore**, April 23, 2019.
72. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **Defense Science Office (DSO), Singapore**, April 23, 2019.
73. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **Facebook Asia Pacific Headquarters** during a panel on Evolution of Information Apocalypse, Singapore, April 24, 2019.
74. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **Twitter Asia Pacific Headquarters**, Singapore, April 25, 2019.
75. Delivered a talk on “Social Computing, Behavioral Modeling, and Prediction” at the **Arkansas Research Alliance (ARA) Board Meeting**, Little Rock, April 11, 2019.
76. Delivered a talk on “Social Computing, Behavioral Modeling, and Prediction” to a delegation from **CESI-France**, University of Arkansas – Little Rock, April 9, 2019.
77. Delivered a lecture on “Social Media Analysis and Social Network Analysis” at the **NATO StratCom COE**, Riga, Latvia, March 27, 2019.

78. Delivered talk on “Deviant Mobs of the Internet: Bots, Trolls, and Misinformation” at the **UALR Downtown Invited Lecture Series**, Little Rock, March 13, 2019.
79. Delivered talk on “NATO Integrates New Media and So Do Adversaries” at **the National Defense University**, Ft. McNair, Washington D.C., February 28, 2019.
80. Delivered talk on “Blogs and Bill Text Analysis” at **Carnegie Mellon University**, Pittsburgh, Pennsylvania, February 8-9, 2019.
81. Delivered talk on “Monitoring Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” to the **U.S. Department of State/Global Engagement Center** delegation as part of the GO2Tech technology demonstration series to fight foreign propaganda, November 28, 2018.
82. Delivered a talk on “Social Cyber Security” at the **Emerging Analytics Center, University of Arkansas – Little Rock**, November 27, 2018.
83. Delivered invited talk on "Deviant Mobs of the Internet: Tactics, Techniques, and Procedures" at **Arizona State University**, November 14, 2018, Tempe, Arizona.
84. Delivered a talk on “Deviant Mobs of the Internet” for a delegation from Senator John Boozman and Senator Tom Cotton’s office at **University of Arkansas - Little Rock**, November 1, 2018, Little Rock, Arkansas.
85. Invited to moderate and speak at the panel on “Emerging Digital Services in Cyber Environments” at The Eighth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2018), October 14 - 18, 2018, Nice, France.
86. Delivered keynote on “Deception, Disinformation, and Digital Services in Cyber Environments” at The Eighth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2018), October 14 - 18, 2018, Nice, France.
87. Invited to participate at the **US Department of State’s Global Engagement Center’s Tech Demo Series Workshop** to fight foreign propaganda, July 24, 2018, **United Nations Headquarters**, New York City.
88. Invited to participate at the **US Department of State’s Global Engagement Center’s Tech Demo Program** to fight foreign propaganda - Kickoff, May 2, 2018, Washington D.C.
89. Delivered invited talk on "Analyzing Strategic Integration of Social Media in Disseminating Disinformation" during ONR Code 34 program review meeting at **SPAWAR Systems Center Atlantic**, May 15-17, 2018, Charleston, South Carolina.
90. Delivered invited talk during DoD MURI program review meeting at **ONR Headquarters**, April 6, 2018, Washington D.C.
91. Delivered a talk to a delegation from **Arkansas Economic Development Commission (AEDC)** visiting UALR-EIT on February 28, 2018.
92. Delivered invited talk for **NATO Strategic Communication Center of Excellence (StratCom COE)** on “Blogs, Fake News, and Information Activities” at the launch event of the research product entitled “Digital Hydra: Security Implications of False Information Online”. November 8, 2017, Riga, Latvia.

93. Delivered a talk to a delegation from **Arkansas Academy of Computing (AAoC)** visiting UALR-EIT on October 28, 2017.
94. Delivered invited talk for the **SMA CENTCOM** Fake News Series on the topic, "The characterization and spread of disinformation and fake news in social media, particularly blogs and Twitter". Friday, 20 October 2017, 1330 ET. Speakers: Dr. Kathleen Carley (Carnegie Mellon University), Dr. Nitin Agarwal (University of Arkansas Little Rock), Dr. Kenneth Joseph (Northeastern University).
95. Delivered keynote on "Fake News, Social Media, and Bots: Motivations from profit driven Macedonian teenagers to systematic disinformation campaigns" at **SOTICS 2017, The Seventh International Conference on Social Media Technologies, Communication, and Informatics**, October 8 - 12, 2017 - Athens, Greece.
96. Served as panelist and moderator for a panel entitled "Dealing with Citizen-centric Social News: A Behavioral View" at **SOTICS 2017, The Seventh International Conference on Social Media Technologies, Communication, and Informatics**, October 8 - 12, 2017 - Athens, Greece.
97. Delivered invited talk on "Blogs, Fake News, and Influence Operations" at Networks, Security, and Social Computing Working Group at the South Big Data Hub, RENCi, **University of North Carolina - Chapel Hill**, September 11, 2017.
98. Delivered invited talk on Social Computing Research at the UA Little Rock New Faculty and Staff Convocation ceremony, August 15, 2017, Little Rock, Arkansas.
99. Delivered invited talk on "Analyzing Integrated Social Media-Facilitated Propaganda Campaigns using Social Network Analysis and Cyber Forensics" during ONR Code 34 program review meeting at **SPAWAR Systems Center Atlantic**, June 13-14, 2017, Charleston, South Carolina.
100. Participated in the **NSF National Workshop on Redefining Cyber Forensics**, May 23-24, 2017, Hartford, Connecticut. [Video]
101. Participated in the **NSF South Big Data Innovation Hub and National Consortium for Data Science**, Translational Data Analytics for Environmental Health: Sensors, Algorithms, and Patients, May 15-16, 2017, RENCi, Chapel Hill, North Carolina
102. Delivered a talk on "Botnets and Propaganda Dissemination" at the **NATO PSYOP/INFO-OP Joint Working Group and Conference**, San Antonio, April 26, 2017.
103. Delivered a talk on "Interdisciplinary Research: Challenges and Opportunities" at the Office of Research and Sponsored Programs (ORSP) Colloquium at **University of Arkansas at Little Rock** on March 30, 2017.
104. Delivered invited lectures for the **NATO Social Media Analysis Course**, March 21-24, 2017, Riga, Latvia.
105. Panelist at the seminar on Trends in Social Media and their Further Development, organized by **NATO Strategic Communications (STRATCOM) Center of Excellence (COE)** on March 20, 2017. Panel title is Big Data. Discussion includes model-led analytics vs analytics-led models, from quantitative analysis to decision making, and digital forensics: investigations in the cyber domain.

106. Panelist for Anti-Social Computing: Bots, Lies, and New Information Environment, organized by **Big Data South Hub at Carnegie Mellon University**, Pittsburgh, March 9, 2017. Participate in the panel by clicking [here](#). The video of the panel is publicly available on South Big Data Hub's YouTube channel. Check the blog post describing the panel discussion at South Big Data Hub blogsite.
107. Presented a tutorial on "Propaganda and Group Characterization" under the RTG HFM-248 Human Networks Analysis at the **NATO TIDE Sprint 28** conference - Open Source Information (OSINF) track. October 24-28, 2016, Virginia Beach, USA.
108. Lectures for the "Digital and Social Media Assessment Course" delivered at **Ft. McNair (Building 56), US Cyber Command, Inter American Defense College**, August 1-5, 2016, Washington D.C.
109. Understanding Influence Operations through Blogs and Twitter: Case of Daesh and Novorossiia, delivered at the **Expert Seminar on New Trends in Social Media, NATO Strategic Communications Center of Excellence (STRATCOM COE)**, April 18-19, 2016, Riga, Latvia.
110. Understanding Influence Operations of Daesh and Novorossiia through Blogs and Twitter, presented at the **NATO TIDE Sprint ACT 2016 conference**, April 11-15, 2016, Krakow, Poland.
111. Understanding Influence Operations of Daesh and Novorossiia through Blogs and Twitter, presented at the **Dark Web Workshop, March 22-24, 2016, U.S. Naval Postgraduate School**, Monterey Bay, California.
112. Presented a tutorial on Understanding Sociotechnical Behaviors in Social Media at **IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2015)**, December 15, 2015, Indian Statistical Institute, Kolkata, India.
113. Understanding Sociotechnical Behaviors in Social Media - The Good, Bad, and Ugly, delivered at the **Fifth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2015)**, November 19, 2015 - Barcelona, Spain.
114. Understanding Sociotechnical Behaviors in Social Media - The Good, Bad, and Ugly, delivered at **Georgia Tech University** for the Computational Health Sciences co-located with the 6th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics on September 9, 2015, Atlanta, Georgia.
115. Sociotechnical Behavior Mining delivered at the **UALR EIT Leadership Council** meeting on April 29, 2015, Little Rock, Arkansas.
116. Sociotechnical Behavior Mining: Challenges, Opportunities, and Beyond delivered at the **Naval Postgraduate School** on April 23, 2015, Monterey Bay, California.
117. Sociotechnical Behavior Mining: Challenges, Opportunities, and Beyond delivered at the **Florida State University** on February 19, 2015, Tallahassee, Florida.
118. Sociotechnical Behavior Mining: Challenges, Opportunities, and Beyond. Delivered at the Artificial Intelligence (AI) cluster of **INFORMS Annual Meeting** on November 9, 2014, San Francisco, California.

119. Interconnected Online Collective Action. Delivered at the Human Computation Roadmap Summit at the **Woodrow Wilson International Center for Scholars** on June 18-20, 2014, Washington D.C.
120. Interconnected Online Collective Action. Delivered at the **Center for Advanced Studies of Language (CASL) at the University of Maryland** on June 26, 2014, College Park, Maryland.
121. Towards Collective Learning Paradigm via Integrated Social Media: Transforming Distractions into Meaningful Interactions. Delivered at the panel on “Where has all the noise gone? Self Motivation in Peer Support Through Social Media” at the Association for the Advancement of Computing in Education (AACE) 25th **EdMedia 2013 - World Conference on Educational Media and Technology**. June 24-28, 2013, Victoria BC, Canada.
122. Social Computing and Its Applications. Delivered at the Summer Workshop at **Hiram College**, June 15, 2013. Cleveland, Ohio.
123. Collective Action and Interorganizational Cooperative Networks: Novel Socio-computational Methodologies, Challenges, and Opportunities. Delivered at the **Qatar Foundation’s Qatar Computing Research Institute (QCRI)**, March 17, 2013. Doha, Qatar.
124. Female Muslims and Collective Action via Social Media. Delivered at the **Raindrop Turkish House** as a part of the monthly invited lecture series on “Culture and Communication”, October 18, 2012. Little Rock, Arkansas.
125. Future Forward Research: Social Computing & Behavioral Modeling. Delivered at the Engineering Systems/Integrated Computing (ENSS/IGCP) joint colloquium series, **UALR** August 31, 2012. Little Rock, Arkansas.
126. Future Forward Research: Social Computational Systems. Delivered at the **Center of Innovation and Commercialization**, 3rd Advisory Council Meeting, July 17, 2012. UALR, Little Rock, Arkansas.
127. Understanding Social Media and User Behavior. Delivered at **Axiom TResNet Conference**, November 8, 2011. Little Rock, Arkansas..
128. Presented a tutorial on Understanding Social Media: Tools, Applications, and Processes at International Conference on **Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP)**, March 28, 2011, College Park, Maryland.
(<http://www.umiacs.umd.edu/conferences/sbp2011/tutorials.html>)
129. Presented a tutorial on Community Detection and Behavior Study for Social Computing at **IEEE International Conference on Social Computing (SocialCom 09)** with Huan Liu and Lei Tang, August 29-31, 2009. Vancouver, Canada.
130. Presented a tutorial on Blogosphere: Research Issues, Applications, and Tools at **ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2008)** with Huan Liu, August 24-27, 2008. Las Vegas, Nevada. Video available at: http://videlectures.net/kdd08_liu_briat/.

131. Information Quality in Social Media: Challenges and Opportunities. **International Association for Information and Data Quality (IAIDQ)** - Student Chapter, Little Rock, Arkansas. September 17, 2010.
132. Behavior Patterns in Social Media and Applications. **Yahoo Research**, India. December 21, 2009.
133. Social Computing: Studying Behavior on Social Media. CSAM-EIT Colloquium Series, **University of Arkansas at Little Rock**. August 28, 2009.
134. Preparing for Academic Careers. Ph.D. Seminar, Arizona State University. May 15, 2009.
135. Social Computing in Blogosphere and Research Challenges. **University of Arkansas at Little Rock**. March 13, 2009.
136. Social Computing in Blogosphere and Research Challenges. **Wright State University**. February 12, 2009.
137. Social Computing and its Challenges in Blogosphere. Doctoral Seminar, **Arizona State University**. January 30, 2009.

Videos of Talks

1. A Social Identity Approach to Identify Familiar Strangers in a Social Network. Research track paper presentation at **ICWSM 2009**. Video available at: http://videolectures.net/icwsm09_agarwal_siaifs/.
2. A tutorial on Blogosphere: Research Issues, Applications, and Tools. Presented at **ACM International Conference on Knowledge Discovery and Data Mining (KDD) 2008**. Video available at: http://videolectures.net/kdd08_liu_briat/.
3. Identifying Influential Bloggers in a Community. Research track paper presentation at **ACM International Conference on Web Search and Data Mining (WSDM) 2008**. Video available at: http://videolectures.net/wsdm08_agarwal_iib/.

SERVICE

Service to Research Community

1. Served on review panels for **U.S. National Science Foundation (NSF)** Information Integration and Informatics (III), Smart and Connected Health (SCH), and Social Computational Systems (SoCS) programs.
2. Served as external reviewer for **U.S. National Institutes of Health (NIH)**.
3. Served as external reviewer for **U.S. Army Research Office (ARO)**.
4. Served as external reviewer for **U.S. Department of Homeland Security (DHS)**.
5. Served as external reviewer for **Natural Sciences and Engineering Research Council (NSERC), Canada**.
6. Served as external reviewer for **Research Grants Council (RGC), Hong Kong**.

7. Served as external reviewer for **Nazarbayev University Research Review**.
8. Served as external reviewer for **UT San Antonio Cyber Defense program**.
9. Served on multiple review panels for **King Abdulaziz City for Science and Technology (KACST), National Science Agency of Saudi Arabia** on 'Big Data' and 'IT Security and Privacy - social network forensics and biometrics'.
10. Served as external doctoral dissertation examiner for University of Calgary, Canada (2022, 2023); Vilnius University, Lithuania (2019); Arizona State University (ASU) (2018, 2016, 2015); and Indian Institute of Technology (IIT) (2017).
11. Served as organizing chair for
 - i. Conference co-chair for International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP 2016 - present), Washington D.C., USA.
 - ii. General Co-Chair for The IEEE/ACM International Conference on Social Network Analysis and Mining (ASONAM), 2022, 2023.
 - iii. Conference co-chair for International Conference on Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies (MSBC 2022), September 21 – 23, 2022, Hybrid (virtual and Vilnius, Lithuania).
 - iv. Workshop Chair for International Workshop on Deviant Activities on Social Media (DEVIANCE 2021) co-located with 2021 IEEE International Conference on BigData (IEEE BigData 2021), December 16, 2021. Virtual.
 - v. Workshop Chair for Workshop on Deviant Activities on Social Media (DEVIANCE 2020) co-located with 2020 IEEE International Conference on BigData (IEEE BigData 2020), December 10, 2020. Virtual.
 - vi. Conference co-chair for International Conference on Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies (MSBC 2019), September 18 - 20, 2019, Vilnius, Lithuania.
 - vii. PhD Forum/Doctoral Consortium Chair at the 2018 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2018), Sydney, Australia, August 28 – 31, 2018.
 - viii. PhD Forum/Doctoral Consortium Chair at the 2017 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2017), Sydney, Australia, July 31 – August 3, 2017.
 - ix. Workshop Co-chair for IEEE International Conference on Health Informatics (ICHI) 2017, August 1-4, 2017, Park City, UT, USA
 - x. Workshop Co-chair for Social Computing and Semantic Data Mining co-located with IEEE International Conference on Computing, Networking and Communications (ICNC 2017), January 26-29, 2017, Silicon Valley, USA
 - xi. Workshop Co-chair for First International Workshop on Social Computing Applications and Mobile Networks: A Convergence Scenario (SoCAMoN 2016) co-located with the 12th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2016), October 17-19, 2016, LAU New York Headquarters and Academic Center.

- xii. PhD Forum/Doctoral Consortium Chair at the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2016), University of California, Davis, USA, August 19-21, 2016.
- xiii. Symposium Chair for Social Computing and Semantic Data Mining at the IEEE International Conference on Computing, Networking and Communications (ICNC 2016), Kauai, Hawaii, USA, February 15-18, 2016^[L]_{SEP}]
- xiv. PhD Forum/Doctoral Consortium Chair at The 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2015), Paris, France, August 25-28, 2015.
- xv. AAAI Spring 2015 Symposium on Socio-Technical Behavior Mining. March 23-25, 2015, Palo Alto, California, USA.
- xvi. Social Awareness Computing using Social Media: Challenges and Opportunities in Understanding Socio-Technical Behavior for Crisis and Disaster Management, co-located with the 6th IEEE International Conference on Awareness Science and Technology (iCAST 2014). October 29-31, 2014, France.
- xvii. SNBD14: International Symposium on Social Networks and Big Data (SNBD), co-located with the 2014 IEEE International Conference on Communications in China (ICCC 2014). October 13-15, 2014, Shanghai, China.
- xviii. WBA13: International Workshop on Web Behavior Analytics (WBA13), co-located with the 2013 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2013). August 25-28, 2013, Niagara Falls, Canada.
- xix. SBP 13 Data Challenge co-located with International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP 2013), April 2-5, 2013, Washington D.C., USA. Co-chair: Wen Dong.
- xx. SBP 12 Challenge co-located with International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP 2012), April 3-5, 2012, Maryland, USA.

12. Served as program chair for

- i. International conference on Social Computing and Applications (SCA) 2011.
- ii. International conference on Social Computing and Applications (SCA) 2012.
- iii. International conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP) 2014.
- iv. International conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP) 2015.

13. Served as senior program committee member for the 23rd International Joint Conference on Artificial Intelligence (IJCAI) 2013.

14. Served as technical program committee member for

- i. SIGKDD: ACM International Conference on Data Mining and Knowledge Extraction.
- ii. ECML PKDD: European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases.
- iii. IJCAI: International Joint Conference on Artificial Intelligence.
- iv. CIKM: ACM Conference on Information and Knowledge Management.

- v. ICIQ: International Conference on Information Quality.
 - vi. CPSCoM: IEEE/ACM International Conference on Cyber, Physical and Social Computing.
 - vii. MEDES: ACM Conference on Management of Emergent Digital Ecosystems.
 - viii. SDM: SIAM International Conference on Data Mining.
 - ix. HT: ACM International Conference on Hypertext and Social Media.
 - x. FOSINT: International Symposium on Foundations of Open Source Intelligence and Security Informatics.
 - xi. SBP: International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction.
 - xii. SocialComp: International Conference on Social Computing, Behavior Modeling and Simulation
 - xiii. ASONAM: International Conference on Advances in Social Networks Analysis and Mining.
 - xiv. SOTICS: International Conference on Social Media Technologies, Communication, and Informatics.
 - xv. ISDA: International Conference on Intelligent Systems Design and Applications.
 - xvi. WWW: International World Wide Web Conference.
 - xvii. CSoNet: Workshop on Computational Social Networks.
15. Served as program committee (PC) member for CIKM, MSM, SBP, MEDES, ASONAM, ICIQ, CPSCoM, SMUC, MEDES, SocialObjects, ASONAM.
 16. Served as tutorial co-chair for ASONAM 2013.
 17. Served as proceedings chair for Social Computing, Behavioral Modeling, and Prediction (SBP), SIAM Data Mining (SDM).
 18. Served as publicity chair for SOTICS, SBP and SIAM Data Mining (SDM).
 19. Reviewed Journal and Conference papers for AAI, VLDB, PAKDD, EC-WEB, WAIM, International Journal of Information Science, CIKM, KDD, IJCSA, APWeb, SDM, JCISE, WWW, ICDM, ICDE, ICWE, ICWSM.

Editor

1. Guest editor for **Springer's Journal on Social Network Analysis and Mining** special issue on Deviant Behaviors on Social Media.
2. Section Editor for **Springer Encyclopedia of Social Network Analysis and Mining (ESNAM)**, 2nd Edition.
3. Editor for **Springer's Journal on Network Modeling Analysis in Health Informatics and Bioinformatics (NETMAHIB)**.
4. Guest Editor for **IEEE Internet Computing's** special issue on Cyber Social Health. Co-editors: Ugur Kursuncu, Hemant Purohit, Amit Sheth. Jan-Feb 2021 issue.
5. Guest Editor for **IEEE Internet Computing's** special issue on Cyber Social Health. Co-editors: Ugur Kursuncu, Hemant Purohit, Amit Sheth. Mar-Apr 2021 issue.

6. Section Editor for **Springer Encyclopedia of Social Network Analysis and Mining** (ESNAM), 2nd Edition.
7. Guest Editor for the **IEEE Communications Magazine** special issue on Social Networks Meet Next Generation Mobile Multimedia Internet published in October 2015 with Seshadri Mohan, Ashutosh Dutta, Sudhir Dixit, Ramjee Prasad (co-editors).
8. Guest Editor for **IEEE Transactions on Computational Social Systems (TCSS)** special issue on Social Computing, Behavioral-Cultural Modeling, and Prediction to appear in 2015 with Kevin Xu, Nathaniel Osgood, and Dongwon Lee.
9. Guest editor for **Lecture Notes in Social Networks** series by Springer. Edited a book on Online Collective Action: Dynamics of the Crowd in Social Media published in 2014 with Rolf T. Wigand and Merlyna Lim (co-editors)
10. Guest Editor for **The Journal of Systems and Software** special issue on Social Cyber Systems published in 2014 with Aoying Zhou and Guandong Xu (co-editors). Published by Elsevier.
11. Guest editor for **The Oxford Computer Journal**. Editing a special issue on Social Computing and its Applications published in 2014 with Aoying Zhou and Guandong Xu (co-editors).
12. Guest Editor for **IEEE Communications Magazine's** special issue on Social Networks Meet Next Generation Mobile Multimedia Internet. Co-editors: Seshadri Mohan, Ashutosh Dutta, Sudhir Dixit, and Ramjee Prasad. October 2015.
13. Guest Editor for **IEEE Transactions on Computational Social Systems' (TCSS)** special issue on Social Computing, Behavioral-Cultural Modeling, and Prediction to appear in 2015 with Kevin Xu, Nathaniel Osgood, and Dongwon Lee.
14. Guest Editor for **The Journal of Systems and Software's** special issue on Social Cyber Systems. Co-editors: Aoying Zhou and Guandong Xu. Published by Elsevier. 2014.
15. Guest Editor for Oxford's **The Computer Journal's** special issue on Social Computing and its Applications. Co-editors: Aoying Zhou and Guandong Xu. Published by the Oxford Journals. 2014.
16. Guest Editor for Springer's **Lecture Notes in Social Networks** series on Online Collective Action: Dynamics of the Crowd in Social Media. Co-editors: Rolf T. Wigand and Merlyna Lim. 2014.
17. Guest Editor for **IEEE Communications Magazine's** special issue on Social Networks meet Mobile Network. Co-editors: Seshadri Mohan and Ashutosh Dutta. June 2012.
18. Guest Editor for Elsevier **Journal of Computational Science's** special issue on Social Computational Systems. Co-editor: Xiaowei Xu. August 2011.
19. Guest Editor for **IEEE Internet Computing's** special issue on Social Computing in Blogosphere. Co-editors: Huan Liu, Philip S. Yu, and Suel Thorsten. Mar-Apr 2010.
20. Associate editor for the Springer Journal on **Social Network Analysis and Mining (SNAM)**.
21. Editorial board member for the Springer's **Human Computation** journal.

22. Associate Editor for **Frontiers in Communication's** special section on Disaster Communications, Frontiers.
23. Associate editor for the **International Journal of Sensor Networks and Data Communications** (IJSNDC), IGI Global publishers.
24. Associate editor for the **International Journal of Interactive Communication Systems and Technologies** (IJICST), IGI Global publishers.

University Service

1. **UALR Strategic Research Plan Committee** (2022 – present) appointed by Provost/Vice-Chancellor.
2. **UALR Winthrop Rockefeller Distinguished Lecture Series Committee** (Fall 2022 – onwards)
3. **DCSTEM Graduate Student Admin Specialist recruitment committee** (Fall 2022).
4. **University Committee for Vice Provost-Research/Dean, Graduate School Search** - represent the EIT College on the committee.
5. **University eLAG/Distance Education Committee** – represent the EIT College on the Electronic Learning Advisory Group overseeing all web-based courses in the University.
6. **University Diversity Council** – represent the EIT College on the campus-wide diversity council responsible for examining the campus climate with a broad definition of diversity including, but not limited to, race/ethnicity, gender, ability, sexual orientation, etc. The council presents recommendations to the Chancellor strengthening the goal of continuous improvement of campus climate and diversity.
7. **College Graduate Curriculum Committee** – review program and curriculum changes for different college departments (viz., Information Science, Computer Science, Systems Engineering, and Construction Management) and various programs within (viz., Information Quality, Bioinformatics).
8. **College Faculty Marshal** during Spring 2014 Commencement Ceremony
9. **Department Promotion and Tenure Committee** – Member
10. **Arkansas Web Developers Group** – Member
11. **Faculty advisor for UALR Quiz Bowl**, an academic competition team for the students of UALR.

Professional Organizations & Memberships

1. International Academy, Research, and Industry Association (IARIA), *Fellow*
2. Arkansas Research Alliance (ARA), *Fellow*
3. Arkansas Academy of Computing (AAoC), *Fellow*
4. Association for Information Systems (AIS), *Member*
5. Association for Computing Machinery (ACM), *Member*
6. Institute of Electrical and Electronics Engineers (IEEE), *Senior Member*

7. American Association for the Advancement of Science (AAAS), *Member*
8. International Network of Social Network Analysis (INSNA), *Member*

Dissertation Chair

Currently Serving

1. Hayder Al Rubaye (Ph.D., Fall 2019)
2. Suryadipta Bhattacharyya (Ph.D., Fall 2022)
3. Christopher Falade (PhD, Fall 2023)
4. Md. Monoarul Islam Bhuiyan (PhD, Fall 2023)
5. Ridwan Amure (PhD, Fall 2023)
6. Hakan Erdem (PhD, Fall 2025)
7. Bishwa Prakash Subedi (MS, Fall 2025)
8. Richa Pokharel (MS, Fall 2025)

Graduated Students

1. Masood Mir (Ph.D., Spring 2010 – Spring 2012), previously faculty at Rowan University, now DAS Engineer at Verizon Wireless.
2. Ismail Guvenc Yuce (Ph.D., Spring 2011 – Fall 2012)
3. Fatih Sen (Ph.D., Spring 2011 – Spring 2014), Biomedical Informatics Research Specialist at Le Bonheur Children's Hospital.
4. Faysal Ahmed (Ph.D., Spring 2011 – Spring 2015), Windstream Communications. Check out his "Dream Bangla Orphanage" project.
5. Nermin Hanna (MS, Summer 2014 – Spring 2015)
6. Samer Al-khateeb (MS, Fall 2013 – Summer 2015), continuing to Ph.D.
7. Serpil Tokdemir (Ph.D., Spring 2011 – Fall 2015), Data Scientist, Office of the Inspector Medicaid General, Little Rock, Arkansas.
8. Amit Saha (Ph.D., Spring 2013 – Spring 2016), Research Professor, Wake Forest University.
9. Mainuddin Shaik (MS, Fall 2015 – Spring 2016). HP, Texas.
10. Abdul Fattah Mohammad (MS, Fall 2015 – Spring 2016).
11. Therese Williams (Ph.D., Spring 2014 – Spring 2017), Professor, University of Central Oklahoma.
12. Mohammad Shiblee Nooman (MS, Fall 2015 – Summer 2017).
13. Tuja Khaund (MS, Fall 2016 – Fall 2017, continuing to Ph.D.).
14. Najma Shaik (MS, Fall 2017 – Fall 2017). CITI Bank, Vice President, Marketing Operations Team
15. Ghouri Mohammad Saaduddin (MS, Summer 2016 – Fall 2017).
16. Abu Fahad Siddiqui (MS, Summer 2016 – Fall 2017)
17. Mukti Barole Shobha Sangappa (MS, Summer 2016 – Fall 2017) – 2017 Acxiom Diversity Scholarship Award winner.
18. Samer Al-Khateeb (Ph.D., Fall 2015 – Fall 2017), Professor, Creighton University.
19. Andrew Pyle (MS, Spring 2018).
20. Kim Tran (Ph.D., Fall 2018), Dillards, Inc.
21. Adekunle Adigun (MS, Spring 2019), Cisco.
22. Oluwaseun Walter (MS, Spring 2019), Amazon
23. Rita Chowdhury (MS, Fall 2019), Stephens, Inc.
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PUBLICATIONS

Books

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2. **Nitin Agarwal** and Samer Al-khateeb. Mobs. Encyclopedia of Social Network Analysis and Mining (ESNAM), Third edition. Alhajj, Reda; Rokne, Jon (Eds.). Springer. 2026.
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8. **Nitin Agarwal**, Esther Mead, Billy Spann, and Kate Donovan. Developing Approaches to Detect and Mitigate COVID-19 Misinfodemic in Social Networks for Proactive Policymaking. In Coronavirus and Disinformation. Editors: Dr. Ritu Gill (DRDC Canada)

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9. Adewale Obadimu, Muhammad Nihal Hussain, and **Nitin Agarwal**. Blogtrackers: Analyzing Blogs to Examine Information-Related Hybrid Threats. Lochard, I.V. (Ed.). “Information-Related Hybrid Threats.” NATO Science for Peace and Security Series – E: Human and Societal Dynamics – Vol. xxx. IOS Press: Amsterdam, 2022 (forthcoming).
 10. Muhammad Nihal Hussain, Adewale Obadimu, Thomas Marcoux, and **Nitin Agarwal**. Technical Capabilities for Information-Related Hybrid Threats. Lochard, I.V. (Ed.). “Information-Related Hybrid Threats.” NATO Science for Peace and Security Series – E: Human and Societal Dynamics – Vol. xxx. IOS Press: Amsterdam, 2022 (forthcoming).
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 12. Thomas Marcoux, **Nitin Agarwal**, Recep Erol, Adewale Obadimu, and Muhammad Nihal Hussain. Analyzing Cyber Influence Campaigns on YouTube Using YouTubeTracker. In: Çakırtaş M., Ozdemir M.K. (eds) Big Data and Social Media Analytics. Lecture Notes in Social Networks. Springer, Cham. pp. 101-111. 2021. https://doi.org/10.1007/978-3-030-67044-3_5
 13. Esther L. Mead and **Nitin Agarwal**. Surface Web vs Deep Web vs Dark Web. In: Schintler L.A., McNeely C.L. (eds) Encyclopedia of Big Data. Springer, Cham. 2020. https://doi.org/10.1007/978-3-319-32001-4_461-1
 14. Samer Al-khateeb and **Nitin Agarwal**. Social Media and Security. In: Schintler L., McNeely C. (eds) Encyclopedia of Big Data. Springer, Cham. 2020. https://doi.org/10.1007/978-3-319-32001-4_537-1
 15. Karen Watts and **Nitin Agarwal**. Blockchain Technology-Based Solutions to Fight Misinformation: A Survey. In: Shu K., Wang S., Lee D., Liu H. (eds) Disinformation, Misinformation, and Fake News in Social Media. Lecture Notes in Social Networks. Springer, Cham. 2020. https://doi.org/10.1007/978-3-030-42699-6_14
 16. Katrin Galeano, Rick Galeano, and **Nitin Agarwal**. An Evolving (Dis)Information Environment – How an Engaging Audience Can Spread Narratives and Shape Perception: A Trident Juncture 2018 Case Study. In: Shu K., Wang S., Lee D., Liu H. (eds) Disinformation, Misinformation, and Fake News in Social Media. Lecture Notes in Social Networks. Springer, Cham. 2020. https://doi.org/10.1007/978-3-030-42699-6_13
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 18. Rick Galeano, Katrin Galeano, Samer Al-khateeb, **Nitin Agarwal**, and James Turner. Botnet Evolution During Modern Day Large Scale Combat Operations. In a seven-book set titled

- “Large Scale Combat Operations”, book titled “Information Operations: Perceptions are Reality”. Col. Mark Vertuli (Ed.). Army University Press. October 2018.
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 23. Samer Al-khateeb, Muhammad Nihal Hussain, and **Nitin Agarwal**. Analyzing Deviant Socio-technical Behaviors using Social Network Analysis and Cyber Forensics-based Methodologies. *Big Data Analytics in Cybersecurity and IT Management*, Chapter 12. O. Savas & J. Deng (Eds.), September 2017. ISBN: 978-1-4987-72129. New York, NY: CRC Press, Taylor & Francis.
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 25. Debanjan Mahata and **Nitin Agarwal**. Identifying Event-Specific Sources from Social Media, *Online Social Media Analytics and Visualization*. Jalal Kawash (Ed.), Chapter 1, pp. 1-25, DOI: 10.1007/978-3-319-13590-8. Springer, 2014.
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- Xu and Lin Li (Eds.). Chapter 4, pp. 54-71. IGI Global, 2013. DOI: 10.4018/978-1-4666-2806-9.ch004.
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 32. **Nitin Agarwal**. Collective Learning - An Integrated Use of Social Media in Learning Environment, *Social Media Tools and Platforms in Learning Environments*. Editors: Bebo White, Irwin king, and Phillip Tsang. pp. 37-51. Springer, 2011. DOI: 10.1007/978-3-642-20392-3_3.
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 35. **Nitin Agarwal**, Huan Liu, and Jianping Zhang. A Study of Friendship Networks and Blogosphere, *Handbook of Research on Text and Web Mining Technologies*. Chapter 36, ISBN: 978-1-59904-990-8, Editors: Min Song and Yi-fang Brook Wu. Idea Group Inc, 2008. - **Reprinted** in *E-Collaboration: Concepts, Methodologies, Tools, and Applications* (Vol. II). Editor: Ned Kock. Information Science Reference (an Imprint of IGI Global). Chapter 5.15, pp. 1078-1100. - **Reprinted** in *Handbook of Research on Social Interaction Technologies and Collaboration Software: Concepts and Trends*. Editors: Tatyana Dumova and Richard Fiordo. Idea Group Inc., 2009. Chapter LV, pp. 661-684.
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2. Ridwan Amure and **Nitin Agarwal**. Discovering Cross-Platform Narrative Flow Templates Using Frequent Subgraph Mining. *Journal of Social Network Analysis and Mining (SNAM)*. Springer. 2026. DOI: 10.1007/s13278-025-01577-x.
3. Mayor Inna Gurung and **Nitin Agarwal**. Narrative Diffusion in Social Networks: A Survey. *Journal of Social Network Analysis and Mining (SNAM)*. Springer. 2025. DOI: 10.1007/s13278-025-01565-1.
4. Saminur Islam, Ahmed Abbasi, **Nitin Agarwal**, Wanhong Zheng, Gianfranco Doretto, and Donald A. Adjeroh. PS3N: Leveraging Protein Sequence-Structure Similarity for Novel Drug-Drug Interaction Discovery. *Scientific Reports. Nature*. 2025. DOI: TBD
5. Mayor Inna Gurung and **Nitin Agarwal**. Examining the Role of Semiotics in Social Media-driven Information Campaigns. *Data & Policy*. Cambridge University Press. 2025. DOI: 10.1017/dap.2025.10022.
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122. Mustafa Alassad and **Nitin Agarwal**. Uncovering the Dynamic Interplay of YouTube Co-commenter Connections through Contextual Focal Structure Analysis. The Fifteenth International Conference on Information, Process, and Knowledge Management (eKNOW 2023), April 24 – 28, 2023, Venice, Italy.
123. Shadi Shajari, Mustafa Alassad, and **Nitin Agarwal**. Commenter Behavior Characterization on YouTube Channels. The Fifteenth International Conference on Information, Process, and Knowledge Management (eKNOW 2023), April 24 – 28, 2023, Venice, Italy. **BEST PAPER AWARD!**

124. Karen DiCicco, Nahiyen Bin Noor, Niloofar Yousefi, Billy Spann, and **Nitin Agarwal**. Toxicity and networks of COVID-19 discourse communities: A tale of two media platforms. The 3rd International Workshop on Reducing Online Misinformation through Credible Information Retrieval (ROMCIR 2023) co-located with the 45th European Conference on Information Retrieval (ECIR 2023), April 2 – 6, 2023, Dublin, Ireland.
125. Ugochukwu Onyepunuka, Mustafa Alassad, Lotenna Nwana, and **Nitin Agarwal**. Multilingual Analysis of YouTube’s Recommendation System: Examining Topic and Emotion Drift in the ‘Cheng Ho’ Narrative. Sixth International Workshop on Narrative Extraction from Texts (Text2Story 2023) co-located with the 45th European Conference on Information Retrieval (ECIR 2023), April 2 – 6, 2023, Dublin, Ireland.
126. Connice Trimmingham and **Nitin Agarwal**. Leveraging Topic Modeling and Toxicity Analysis to understand China-Uyghur Conflicts. The Ninth International Conference on Human and Social Analytics (HUSO 2023), March 13 – 17, 2023, Barcelona, Spain.
127. Karen Watts DiCicco, Nahiyen Noor, Niloofar Yousefi, Billy Spann, and **Nitin Agarwal**. Comparing Toxicity Across Different Social Media. The Ninth International Conference on Human and Social Analytics (HUSO 2023), March 13 – 17, 2023, Barcelona, Spain. **BEST PAPER AWARD!**
128. Obianuju ‘Ivory’ Okeke, Mert Can Cakmak, Billy Spann, and **Nitin Agarwal**. Examining Content and Emotion Bias in YouTube’s Recommendation Algorithm. The Ninth International Conference on Human and Social Analytics (HUSO 2023), March 13 – 17, 2023, Barcelona, Spain. **BEST PAPER AWARD!**
129. Maryam Maleki, Esther Mead, Mohammad Arani, and **Nitin Agarwal**. Measuring the Interference Effect of Bots in Disseminating Opposing Viewpoints Related to COVID-19 on Twitter Using Epidemiological Modeling. The 56th Hawai’i International Conference on System Sciences (HICSS), January 3-6, 2023, Maui. **Best Paper Nomination.**
130. Abiola Akinnubi, **Nitin Agarwal**, Ayokunle Sunmola, and Vanessa Okeke. Visualization of Influential Blog Networks Using BlogTracker. In Proceedings of The 2022 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2022), November 10-13, 2022, Istanbul, Turkey.
131. Dayo Samuel Banjo, Connice Trimmingham, Niloofar Yousefi, and **Nitin Agarwal**. Multimodal Characterization of Emotion within Multimedia Space. International Conference on Computers and Computation (COMPUTE 2022), November 03-04, 2022, San Francisco, United States. **Best Presentation Award.**
132. Samer Al-Khateeb and **Nitin Agarwal**. Studying Simulated Mobs using Monte Carlo Method and Theory of Collective Action. In Proceedings of the International Conference on Modeling and Simulation of Social-Behavioral Phenomena in Creative Societies (MSBC 2022), Springer. September 21-23, 2022, Vilnius, Lithuania.
133. Mustafa Alassad and **Nitin Agarwal**. A Systematic Approach for Contextualizing Focal Structure Analysis in Social Networks. 15th International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRIMS 2022), Springer. September 20-23, 2022, Pittsburgh, USA.

134. Connice Trimmingham and **Nitin Agarwal**. Leveraging Topic Modeling and Toxicity Analysis to understand China-Uyghur Conflicts. 15th International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2022), Springer. September 20-23, 2022, Pittsburgh, USA.
135. Ugochukwu Onyepunuka, Thomas Marcoux, Mainuddin Shaik, Mayor Inna Gurung, and **Nitin Agarwal**. A Multidimensional Analysis of YouTube Communities in the Indo-Pacific Region. The Twelfth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2022), October 16 – 20, 2022, Lisbon, Portugal. **BEST PAPER AWARD!**
136. Esther Mead, Kazi Tanvir Islam, and **Nitin Agarwal**. Experimentation with Data Imputation Methods to Improve Refugee Regression and Classification Prediction Models. The Migration Conference. September 7 – 10, 2022, Rabat, Morocco.
137. Billy Spann, Oluwaseun Johnson, and **Nitin Agarwal**. A Computational Framework for Analyzing Social Behavior in Online Connective Action: A COVID-19 Lockdown Protest Case Study. Americas Conference on Information Systems (AMCIS 2022). August 10-14, 2022, Minneapolis, Minnesota, USA. **Top 25% Complete Papers!**
138. Esther Mead, Maryam Maleki, Mohammad Arani, and **Nitin Agarwal**. Proposing Location-Based Predictive Features for Modeling Refugee Counts. International Conference on Statistical Computation and Data Science (ICSCDS 2022). June 9-10, 2022, Copenhagen, Denmark.
139. Hayder Al Rubaye, Muhammad Nihal Hussain, Thomas Marcoux, Sruthi Kompalli, Gaurav Raj Thapa, Mayor Inna Gurung, and **Nitin Agarwal**. Extracting and Visualizing Narratives from Social Video Sharing Platforms. The Eighth International Conference on Human and Social Analytics (HUSO 2022), May 22 – May 26, 2022, Venice, Italy. **BEST PAPER AWARD!**
140. Baris Kirdemir, Oluwaseyi Adeliyi, and **Nitin Agarwal**. Towards Characterizing Coordinated Inauthentic Behaviors on YouTube. The 2nd Workshop on Reducing Online Misinformation through Credible Information Retrieval (ROMCIR 2022) held with the 44th European Conference on Information Retrieval (ECIR 2022). April 10-14, 2022, Stavanger, Norway.
141. Maryam Maleki, Mohammad Arani, Esther Mead, Joseph Kready, and **Nitin Agarwal**. Applying an Epidemiological Model to Evaluate the Propagation of Toxicity related to COVID-19 on Twitter. The 55th Hawai'i International Conference on System Sciences (HICSS), January 4-7, 2022, Maui.
142. Saminur Islam, Ahmed Abbasi, **Nitin Agarwal**, Wanhong Zheng, Gianfranco Doretto, and Donald Adjero. Detecting Adverse Drug Events using Protein Sequence-Structure Similarity Networks. The IEEE International Conference on Bioinformatics and Biomedicine (BIBM), Dec. 9-12, 2021 (virtual).
143. Baris Kirdemir and **Nitin Agarwal**. Exploring Bias and Information Bubbles in YouTube's Video Recommendation Networks. The 10th International Conference on Complex Networks and their Applications (COMPLEX NETWORKS 2021), November 30 – December 2, 2021. Madrid, Spain

144. Thomas Marcoux, Oluwaseyi Adeliyi, and **Nitin Agarwal**. Characterizing Video-based Online Information Environment using VTracker. The 2021 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2021), November 8-11, 2021, The Hague, Netherlands.
145. Abiola Akinnubi, **Nitin Agarwal**, Zachary Stine, and Sodiq Oyedotun. Analyzing Online Opinions and Influence Campaigns on Blogs using BlogTracker. The 2021 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2021), November 8-11, 2021, The Hague, Netherlands.
146. Collin Widmer, Brandon Minnery, Muhammad Nihal Hussain, and **Nitin Agarwal**. Twitter Social Trustworthiness Assessment: A Web-Based Tool to Detect Threats in Social Media Networks. Society for Computation in Psychology. November 4, 2021 (virtual)
147. Esther Mead, Maryam Maleki, and **Nitin Agarwal**. A Complex Systems Approach to the Use of Location-based Predictive Features for Modeling Refugee Counts. Complex Systems for the Most Vulnerable (CS4V21). Lyon, October 27-28, 2021.
148. Mainuddin Shaik, Zachary Stine, and **Nitin Agarwal**. Developing Situational Awareness from Blogosphere: An Australian Case Study. The Eleventh International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2021), October 3-7, 2021, Barcelona, Spain. **BEST PAPER AWARD!**
149. Saminur Islam, Ahmed Abassi, **Nitin Agarwal**, Wanhong Zheng, Gianfranco Doretto, Donald Adjero. Detecting Adverse Drug Events via Protein Sequence-Structure Similarity Networks. IEEE International Conference on Biomedical and Health Informatics (BHI'21). July 27, 2021.
150. Thomas Marcoux, Esther Mead, and **Nitin Agarwal**. Studying the Dynamics of COVID-19 Misinformation Themes using Topic Streams. The Seventh International Conference on Human and Social Analytics (HUSO 2021), July 18-22, 2021. Nice, France. **BEST PAPER AWARD!**
151. Zachary Stine, James Deitrick and **Nitin Agarwal**. Computational Methods for Comparing Discourses. International Conference on Computational Social Science (IC2S2 2021). July 27-31 2021, ETH Zurich (online)
152. Samer Al-Khateeb, Madelyn Anderson and **Nitin Agarwal**. Studying the Role of Social Bots During Cyber Flash Mobs. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.
153. Baris Kirdemir, Joseph Kready, Esther Mead, Muhammad Nihal Hussain, **Nitin Agarwal** and Donald Adjero. Assessing Bias in YouTube's Video Recommendation Algorithm in a Cross-lingual and Cross-topical Context. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.
154. Billy Spann, **Nitin Agarwal**, Esther Mead and Therese Williams. Using Diffusion of Innovations Theory to Study Connective Action Campaigns. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior

Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.

155. Maryam Maleki, Mohammad Arani, Erik Buchholz, Esther Mead and **Nitin Agarwal**. Applying an Epidemiological Model to Evaluate the Propagation of Misinformation and Legitimate COVID-19-related Information on Twitter. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.
156. Rick Galeano, Billy Spann, Katrin Galeano and **Nitin Agarwal**. Weak Ties to the Narrative Rescue: Starbucks Arrest Controversy Case Study. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.
157. Mustafa Alassad, Muhammad Nihal Hussain and **Nitin Agarwal**. Optimizing Response Time to Minimize Spreading of Conspiracy Theories in Dynamic Social Networks. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19. **DISINFORMATION CHALLENGE AWARD WINNER**
158. Mustafa Alassad, Muhammad Nihal Hussain and **Nitin Agarwal**. Evolution of Focal Information Spreaders in Dynamic Social Networks. 2021 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2021), July 6-9, 2021, Washington D.C. Virtual due to COVID-19.
159. Esther Mead, Maryam Maleki, and **Nitin Agarwal**. Proposing a Broader Scope of Predictive Features for Modeling Refugee Counts. 4th International Conference on Data Science and Applications (ICONDATA) 2021, June 04 – 05, 2021.
160. Billy Spann and **Nitin Agarwal**. A socio-technical framework for measuring connective action in online social networks. 31st European Conference on Operational Research, session: Web Content and Behaviour, stream: Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies. July 11-14, 2021. Athens.
161. Ruchi Agarwal, Karen DiCicco, Esther Mead, and **Nitin Agarwal**. Towards a Multi-method Socio-Computational Approach for Analyzing Toxicity Propagation Among User-generated Discourse about COVID-19 on YouTube. 31st European Conference on Operational Research, session: Computational Intelligence in Social Sciences, stream: Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies. July 11-14, 2021. Athens.
162. Mustafa Alassad and **Nitin Agarwal**. A Novel Systematic Approach to Inspect Focal Patterns in Dynamic Social Networks. 31st European Conference on Operational Research, session: Computational Intelligence in Social Sciences, stream: Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies. July 11-14, 2021. Athens.
163. Maryam Maleki, Esther Mead, and **Nitin Agarwal**. Applying epidemiological model to evaluate and compare the propagation of misinformation and legitimate hashtags related to

COVID. 31st European Conference on Operational Research, session: Computational Intelligence in Social Sciences, stream: Modelling and Simulation of Social-Behavioural Phenomena in Creative Societies. July 11-14, 2021. Athens.

164. Maryam Maleki, Esther Mead, Mohammad Arani, **Nitin Agarwal**. Using an Epidemiological Model to Study the Spread of Misinformation during the Black Lives Matter Movement. International Conference on Fake News, Social Media Manipulation and Misinformation (ICFNSMMM). April 08-09, 2021. Athens, Greece.
165. Esther Mead, Maryam Maleki, Recep Erol and **Nitin Agarwal**. Proposing a Broader Scope of Predictive Features for Modeling Refugee Counts. Data Science for Social Good (DSSG) co-located with 30th ACM International The Web Conference. April 12-16, 2021. Slovenia.
166. Muhammad Nihal Hussain, Hayder Al Rubaye, Kiran Kumar Bandeli and **Nitin Agarwal**. Stories from Blogs: Computational Extraction and Visualization of Narratives. 4th International Workshop on Narrative Extraction from Texts (Text2Story) co-located with 43rd European Conference on Information Retrieval. March 28 – April 1, 2021. Lucca, Italy.
167. Thomas Marcoux and **Nitin Agarwal**. Narrative Trends of COVID-19 Misinformation. 4th International Workshop on Narrative Extraction from Texts (Text2Story) co-located with 43rd European Conference on Information Retrieval. March 28 – April 1, 2021. Lucca, Italy.
168. Baris Kirdemir, Maryetta Morris, Esther Mead, Muhammad Nihal Hussain and **Nitin Agarwal**. Evaluating Video Recommendation Bias on YouTube. 2nd International Workshop on Algorithmic Bias in Search and Recommendation (BIAS) co-located with 43rd European Conference on Information Retrieval. March 28 – April 1, 2021. Lucca, Italy.
169. Zachary Stine, James Deitrick, and **Nitin Agarwal**. Using Information Divergence to Differentiate Deep from Superficial Resemblances among Discourses. 23rd International Conference on Human Computer Interaction (HCI International). 24-29 July 2021. Washington, D.C.
170. Esther Mead and **Nitin Agarwal**. COSMOS experience of COVID-19 contributed to the study titled “Investigating Types of Deception and the Technical Aspects Involved in Detecting It for the Current COVID-19 Pandemic”. Study is conducted by the Control, Communications, Cyber, and Information (C4I) Group at The Technical Cooperation Program (TTCP), Australia Defense Science and Technology (DST). January 2021.
171. Hussein Al-Hamdani, Mustafa Alassad, **Nitin Agarwal**, and Seshadri Mohan. Modeling, Estimating, and Minimizing Average New Infections of COVID-19 Based on Information Theory and Social Networks. 45th IEEE International Wireless World Research Forum (WWRF 45) – Vertical Industry Platform (VIP) Working Group on 5G e/m-Health and Wearables. 18-21 January 2021, Kuala Lumpur, Malaysia.
172. Mustafa Alassad, Muhammad Nihal Hussain, and **Nitin Agarwal**. How to Control Coronavirus Conspiracy Theories in Twitter? A Systems Thinking and Social Networks Modeling Approach. Workshop on Deviant Activities on Social Media (DEVIANCE 2020) co-located with 2020 IEEE International Conference on Big Data (IEEE BigData 2020), December 10-13, 2020. Virtual due to COVID-19.

173. Zachary Stine, James Deitrick, and **Nitin Agarwal**. Comparative religion, topic models, and conceptualization: Towards the characterization of structural relationships between online religious discourses. Computational Humanities Research (CHR 2020), November 18-20, 2020. Virtual due to COVID-19.
174. Baris Kirdemir and **Nitin Agarwal**. Social Media, News, Polarization, and Disinformation In Times Of Crisis: A Case Study On Turkey. International Conference on Social-cybersecurity in Times of Crisis and Change. November 19-20, 2020. Virtual due to COVID-19.
175. Adewale Obadimu, Tuja Khaund, MaryEtta Morris, Esther Mead, and **Nitin Agarwal**. Utilizing Topic Modeling and Social Network Analysis to Identify and Regulate Toxic COVID-19 Behaviors on YouTube. International Conference on Social-cybersecurity in Times of Crisis and Change. November 19-20, 2020. Virtual due to COVID-19.
176. Mustafa Alassad, Muhammad Nihal Hussain, and **Nitin Agarwal**. Systems Thinking and Modeling in Social Networks: A Case Study of Controlling COVID-19 Conspiracy Theories. International Conference on Social-cybersecurity in Times of Crisis and Change. November 19-20, 2020. Virtual due to COVID-19.
177. Thomas Marcoux, Esther Mead, and **Nitin Agarwal**. Studying the Dynamics of COVID-19 Misinformation Themes. International Conference on Social-cybersecurity in Times of Crisis and Change. November 19-20, 2020. Virtual due to COVID-19.
178. Billy Spann, Oluwaseun Johnson, Esther Mead, and **Nitin Agarwal**. Modeling Protester Orchestration through Connective Action: A COVID-19 Lockdown Protest Case Study. International Conference on Social-cybersecurity in Times of Crisis and Change. November 19-20, 2020. Virtual due to COVID-19.
179. Thomas Marcoux, Esther Mead, and **Nitin Agarwal**. The Ebb and Flow of the COVID-19 Misinformation Themes. 5th International Workshop on Mining Actionable Insights from Social Networks Special Edition on Dis/Misinformation Mining from Social Media (MAISON 2020). Co-located with 29th ACM International Conference on Information and Knowledge Management (CIKM 2020), October 20, 2020, Virtual due to COVID-19.
180. Recep Erol, Rick Rejeleene, Richard Young, Thomas Marcoux, Muhammad Nihal Hussain, and **Nitin Agarwal**. YouTube Video Categorization Using Moviebarcode. The Sixth International Conference on Human and Social Analytics (HUSO 2020), October 18-22, 2020, Porto, Portugal. Virtual due to COVID-19. **BEST PAPER AWARD**
181. Thomas Marcoux, Esther Mead and **Nitin Agarwal**. The Ebb and Flow of the COVID-19 Misinformation Themes. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C. Virtual due to COVID-19.
182. Mustafa Alassad, Muhammad Nihal Hussain, and **Nitin Agarwal**. Systems Thinking and Modeling in Social Networks: A Case Study of Coronavirus Conspiracy Theories Challenges in Twitter Network. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C. Virtual due to COVID-19.

183. Hussein Al-Hamdani, Mustafa Alassad, **Nitin Agarwal** and Seshadri Mohan. Modeling, Estimating, and Minimizing Average New Infections of COVID-19 Based on Information Theory and Social Networks. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C. Virtual due to COVID-19.
184. Billy Spann, **Nitin Agarwal**, Oluwaseun Johnson and Esther Mead. Modeling Protester Orchestration through Connective Action: A COVID-19 Lockdown Protest Case Study. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C. Virtual due to COVID-19.
185. Adewale Obadimu, Esther Mead, Tuja Khaund, Maryetta Morris and **Nitin Agarwal**. Utilizing Topic Modeling and Social Network Analysis to Identify and Regulate Toxic COVID-19 Behaviors on YouTube. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C. Virtual due to COVID-19.
186. Tuja Khaund, Mainuddin Shaik, and **Nitin Agarwal**. Data Collection and Sensemaking from Telegram: A Case Study of Ukrainian Political Leaders Channels and Chat Groups. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C.
187. Thomas Magelinski, Zachary Stine, Thomas Marcoux, **Nitin Agarwal**, and Kathleen M. Carley. Indicators of Crisis: Textual Analysis of Euromaidan. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C.
188. Mustafa Alassad, Muhammad Nihal Hussain, and **Nitin Agarwal**. Developing Graph Theoretic Techniques to Identify Amplification and Coordination Activities of Influential Sets of Users. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C.
189. Adewale Obadimu, Esther Mead, Maryam Maleki, and **Nitin Agarwal**. Developing an Epidemiological Model to study Spread of Toxicity on YouTube. 2020 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction, and Behavior Representation in Modeling and Simulation (SBP-BRiMS 2020), October 18-21, 2020, Washington D.C.
190. Tuja Khaund, Muhammad Nihal Hussain, Mainuddin Shaik, and **Nitin Agarwal**. Telegram: Data Collection, Opportunities and Challenges. 7th International Conference on Information Management and Big Data (SIMBig 2020), Social Network and Media Analysis and Mining (SNMAM) track, October 1-3, 2020. Virtual due to COVID-19

191. Zachary Stine and **Nitin Agarwal**. Comparative Discourse Analysis using Topic Models: Contrasting Perspectives on China from Reddit. 11th International Conference on Social Media & Society (SMSociety 2020), July 22, 2020, Chicago (online).
192. Kaize Ding, **Nitin Agarwal**, and Huan Liu. Inductive Anomaly Detection on Attributed Networks. 29th International Joint Conference on Artificial Intelligence and the 17th Pacific Rim International Conference on Artificial Intelligence (IJCAI-PRICAI 2020), July 11-17, Yokohama, Japan.
193. Joseph Kready, Muhammad Nihal Hussain, and **Nitin Agarwal**. YouTube Data Collection Using Parallel Processing. IEEE Workshop on Parallel and Distributed Processing for Computational Social Systems (ParSocial 2020), May 22, 2020, New Orleans, Louisiana USA.
194. Thomas Marcoux, Adewale Obadimu, and **Nitin Agarwal**. Dynamics Of Online Toxicity In The Asia-Pacific Region. Workshop on Data Science for Fake News (DSFN'20) co-located with the 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'20), May 11-16, 2020, Singapore.
195. Kiran Kumar Bandeli, Muhammad Nihal Hussain, and **Nitin Agarwal**. A Framework towards Computational Narrative Analysis on Blogs and Social Media. The 3rd International Workshop on Narrative Extraction from Texts (Text2Story'20) co-located with 42nd European Conference on Information Retrieval (ECIR 2020), April 14-17, 2020, Lisbon.
196. Thomas Marcoux, Adewale Obadimu, and **Nitin Agarwal**. Dynamics of Online Toxicity In The Asia-Pacific Region. In the 40th International Sunbelt Social Network Conference (Sunbelt XL) organized by the International Network for Social Network Analysis (INSNA), June 2-7, 2020, Paris.
197. Mustafa Alassad, Billy Spann, **Nitin Agarwal**, and Samer Al-khateeb. Using Computational Social Science Techniques to Identify Coordinated Cyber Threats to Smart City Networks. 1st Joint International Conference on Design and Construction of Smart City Components, December 17-19, 2019, Cairo, Egypt.
198. Adewale Obadimu, Esther L. Mead, and **Nitin Agarwal**. Identifying Latent Toxic Features on YouTube Using Non-Negative Matrix Factorization. The Ninth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2019), November 24 - 28, 2019, Valencia, Spain.
199. Anal Kanti Roy and **Nitin Agarwal**. Automating Blog Crawling Using Pattern Recognition. The Ninth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS 2019), November 24 - 28, 2019, Valencia, Spain.
200. Thomas Marcoux and **Nitin Agarwal**. Understanding Information Operations using YouTubeTracker. In Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence (WI 2019), October 14-17, 2019, Thessaloniki, Greece.
201. Muhammad Nihal Hussain, Thomas Marcoux, Adewale Obadimu, and **Nitin Agarwal**. Understanding Information Operations using YouTubeTracker. IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2019), August 27-30, 2019, Vancouver, Canada. (Demo Track)

202. Adewale Obadimu, Muhammad Nihal Hussain, and **Nitin Agarwal**. Blog Data Analytics Using Blogtrackers. IEEE/ACM International Conference on Social Networks Analysis and Mining (ASONAM 2019), August 27-30, 2019, Vancouver, Canada. (Demo Track)
203. Mustafa Alassad, Muhammad Nihal Hussain and **Nitin Agarwal**. Finding Fake News Key Spreaders in Complex Social Networks by Using Bi-Level Decomposition Optimization Method. In Proceedings of the Modeling and Simulation of Social-Behavioral Phenomena in Creative Societies (MSBC 2019), September 18-20, 2019, Vilnius, Lithuania.
204. Mustafa Alassad, **Nitin Agarwal**, and Muhammed Nihal Hussain. Examining Intensive Groups in Large YouTube Commenter Networks. In proceedings of the International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
205. Adewale Obadimu, Esther Mead, Muhammad Nihal Hussain, and **Nitin Agarwal**. Identifying Toxicity Within YouTube Video Comment Text Data. In proceedings of the International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
206. Zachary Stine and **Nitin Agarwal**. A Quantitative Portrait of Legislative Change in Ukraine. In proceedings of the International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
207. Tuja Khaund, Billy Spann, Richard Young, Samer Al-Khateeb and **Nitin Agarwal**. Blog Farm Detection Using Social Network Analysis and Social Cyber Forensics Informed Methodologies. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
208. Thomas Marcoux and **Nitin Agarwal**. Understanding Information Operations Using YouTubeTracker. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
209. Katrin Galeano, Rick Galeano and **Nitin Agarwal**. Hostile Actor Amplification via YouTube during NATO's Trident Juncture 2018. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
210. Muhammad Nihal Hussain, Adewale Obadimu and **Nitin Agarwal**. Blog Data Analytics Using Blogtrackers. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.
211. Katrin Galeano, Rick Galeano, **Nitin Agarwal** and Muhammad Hussain. The Forgotten Network: YouTube Comments Used as an Amplifier for Messaging. International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction - Behavioral

Representation in Modeling and Simulation (SBP-BRiMS), July 9 – July 12, 2019, George Washington University, Washington D.C., USA.

212. **Nitin Agarwal** and Eric Wiebelhaus-Brahm. Assessing the Extent of ICC Backlash in Africa Via Social Media Data. International's Studies Association 60th Annual Convention, March 27th - 30th, 2019, Toronto, Ontario, Canada.
213. Tuja Khaund, Kiran Kumar Bandeli, and **Nitin Agarwal**. A Novel Methodology to Identify and Collect Data from Relevant Blogs Leveraging Multiple Social Media Platforms and Cyber Forensics. IARIA Fifth International Conference on Big Data, Small Data, Linked Data and Open Data (ALLDATA 2019), March 24 - 28, 2019, Valencia, Spain.
214. Adewale Obadimu, Esther Mead, Samer Al-khateeb, and **Nitin Agarwal**. A Comparative Analysis of Facebook and Twitter Bots. Proceedings of the Southern Association for Information Systems Conference, March 22nd–23rd, 2019, St. Simon's, Island, GA, USA.
215. **Nitin Agarwal** and Eric Wiebelhaus-Brahm. Online Activism: What Social Media Analysis Reveals About Justice Mobilization for Syria. Annual Meeting of the Southern Political Science Association, January 17 – 19, 2019. Austin, Texas.
216. Rick Galeano, Katrin Galeano, Billy Spann and **Nitin Agarwal**. Analyzing the Starbucks Arrest Controversy on Twitter. 2nd European Symposium on Societal Challenges in Computational Social Science: Discrimination and Bias. December 5-7, 2018. Cologne, Germany.
217. Vineeth Rakesh, Ruocheng Guo, Raha Moraffah, **Nitin Agarwal** and Huan Liu. Linked Causal Variational Autoencoder for Inferring Paired Spillover Effects. In Proceedings of the 27th ACM International Conference on Information and Knowledge Management (CIKM), October 22-26, 2018, Turin, Italy.
218. Muhammad Nihal Hussain, Kiran Kumar Bandeli, Serpil Tokdemir, Samer Al-khateeb, **Nitin Agarwal**. Understanding Digital Ethnography: Socio-computational Analysis of Trending YouTube Videos. In Proceedings of the Eighth International Conference on Social Media Technologies, Communication, and Informatics (SOTICS), October 14- 18, 2018. Nice, France. **BEST PAPER AWARD**
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Ph.D. Dissertation

Social Computing in Blogosphere. School of Computing, Informatics, and Decision Systems Engineering (CIDSE), Arizona State University. August 2009.

Dissertation Chair: Prof. Huan Liu.

Professional Organizations & Memberships

- American Association for the Advancement of Science (AAAS)
- Arkansas Research Alliance (ARA), *Fellow*
- Association for Computing Machinery (ACM)
- Association for Information Systems (AIS)
- Institute of Electrical and Electronics Engineers (IEEE), *Senior Member*
- International Academy, Research and Industry Association (IARIA), *Fellow*
- International Network of Social Network Analysis (INSNA)