

## **NITIN AGARWAL, Ph.D.**

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### **EDUCATION**

- 2009            Doctor of Philosophy in Computer Science  
                  Arizona State University
- 2003            Bachelor of Technology in Information Technology  
                  Indian Institute of Information Technology

### **EMPLOYMENT**

- July 2015 – *present*    Jerry L. Maulden-Entergy Endowed Chair and Distinguished Professor of  
                                  Information Science  
                                  University of Arkansas at Little Rock
- 2013 – 2015            Associate Professor of Information Science  
                                  University of Arkansas at Little Rock
- 2009 – 2013            Assistant Professor (tenure-track) of Information Science  
                                  University of Arkansas at 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; human computation;
2. Social cybersecurity, social cyber forensics, deception, disinformation, propaganda campaigns, modeling deviant behaviors;
3. Artificial intelligence, data mining and machine learning, big data analytics;
4. Smart and connected health, health 2.0, health informatics;
5. Semantic web mining; and
6. Privacy.

### Sponsored Projects *(in reverse chronological sequence)*

1. **[Role: Co-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 Adjeroh, Yuri Zarate, Umesh Reddy, Xintao Wu.
2. **[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.
3. **[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.
4. **[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.
5. **[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). [DoD announcement](#).

6. **[Role: PI]** [Arkansas Research Alliance fellowship](#). Total award amount: \$75,000. Project period: 01/01/2019 - 12/31/2021. [Arkansas Democrat Gazette | KARK | NWA - Fox 24](#).
7. **[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 - 01/31/2019.
8. **[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 Adjeroh (West Virginia University), Ahmed Abbasi (Virginia University), Christopher Rozell (Georgia Tech).
9. **[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.
10. **[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.
11. **[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.
12. **[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.
13. **[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.
14. **[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.

15. **[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.
16. **[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.
17. **[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 Adjeroh.
18. **[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.
19. **[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.
20. **[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.
21. **[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 Adjeroh.
22. **[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.
23. **[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 and the U.S. Office of Naval Research (ONR) 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 policy makers 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. Office of Naval Research (ONR) 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.

2. **Sociotechnical Behavior Modeling for Cyberthreat/Cyberterrorism Assessment:** 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 cyberattacks. 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. 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.
3. **AI-based Integrative Approach to Digital Health:** 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 Categorization:** 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. 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, <http://blogtrackers.fulton.asu.edu>. **These initiatives have been supported in part by the U.S. Office of Naval Research (ONR) under ONR DURIP, 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 a **best paper award** at **PASSAT 2010** and a **best paper nominee** at **AMCIS 2013**.

- 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. Recognized as a Fellow of the Arkansas Research Alliance** by Gov. Asa Hutchinson,



December 13, 2018, Little Rock, Arkansas.

2. **Recognized as a Fellow of the Arkansas Academy of Computing**, November 6, 2018, Fayetteville, Arkansas.
3. 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.
4. 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.
5. **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.
6. 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.
7. 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.
8. Recipient of **Jerry L. Maulden-Entergy Endowed Chair Professorship** of Information Science at UALR.
9. 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/>
10. 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/>
11. 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.
12. **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>

13. 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.
14. 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.
15. **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.
16. **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/uair-research-creates-internet-privacy-tool.html>),
  - c. UALR News (<http://ualr.edu/www/2010/08/24/uair-researchers-develop-internet-privacy-tool/>),
  - d. Dr Dobbs Journal (<http://www.drdoobbs.com/security/227100040;jsessionid=BJ0CWEFDYTLXRQE1GHP SKH4ATMY32JVN>) and
  - e. PhysOrg (<http://www.physorg.com/news201884299.html>).
17. Recognized as an **Outstanding Ph.D.** student finalist by the School of Computing and Informatics at Arizona State University, Spring 2009.
18. Received Society for Industrial and Applied Mathematics (SIAM) Data Mining (SDM) Doctoral Forum Travel Award in 2009.
19. 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](http://sci.asu.edu/news/publications/SCInewsletter_Fall08.pdf)), pp. 10-11, Fall 2008.
20. 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.
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. *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.*

### **Graduate Courses taught at UALR**

7. 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. *This course is taught both online as well as face-to-face using Blackboard Collaborate technology.*
8. 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**

9. 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 an invited talk at **DARPA** on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures”, December 6, 2019.
2. Delivered an invited talk on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” to **US Senator John Boozman**, November 15, 2019.
3. 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.
4. Delivered an invited talk on “Mining Data from the Wild: Inferring Actionable Insights” at **Embry-Riddle Aeronautical University**, November 13, 2019.
5. Delivered an invited talk on “Deviant Mobs of the Internet: Tactics, Techniques, and Procedures” at **University of New Haven**, October 30, 2019.

6. 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.
7. 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.
8. Delivered an invited talk on “Collaboratorium for Social Media and Online Behavioral Sciences (COSMOS)” to a multination delegation from Europe under the International Visitor Leadership Program hosted by the **U.S. Department of State**, September 23, 2019.
9. 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.
10. 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.
11. Delivered an invited talk on “Social Cyber Forensics” at the **SBP-BRiMS 2019 conference, Washington D.C.**, July 12, 2019.
12. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **U.S. Embassy, Singapore**, April 23, 2019.
13. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **Defense Science Office (DSO), Singapore**, April 23, 2019.
14. 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.
15. Delivered a talk on “Deviant Mobs of the Internet: Asia Pacific Case Study” at the **Twitter Asia Pacific Headquarters**, Singapore, April 25, 2019.
16. Delivered a talk on “Social Computing, Behavioral Modeling, and Prediction” at the **Arkansas Research Alliance (ARA) Board Meeting**, Little Rock, April 11, 2019.
17. Delivered a talk on “Social Computing, Behavioral Modeling, and Prediction” to a delegation from **CESI-France**, University of Arkansas – Little Rock, April 9, 2019.
18. Delivered a lecture on “Social Media Analysis and Social Network Analysis” at the **NATO StratCom COE**, Riga, Latvia, March 27, 2019.
19. Delivered talk on “Deviant Mobs of the Internet: Bots, Trolls, and Misinformation” at the **UALR Downtown Invited Lecture Series**, Little Rock, March 13, 2019.
20. Delivered talk on “NATO Integrates New Media and So Do Adversaries” at the **National Defense University**, Ft. McNair, Washington D.C., February 28, 2019.
21. Delivered talk on “Blogs and Bill Text Analysis” at **Carnegie Mellon University**, Pittsburgh, Pennsylvania, February 8-9, 2019.

22. 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.
23. Delivered a talk on “Social Cyber Security” at the **Emerging Analytics Center, University of Arkansas – Little Rock**, November 27, 2018.
24. Delivered invited talk on "Deviant Mobs of the Internet: Tactics, Techniques, and Procedures" at **Arizona State University**, November 14, 2018, Tempe, Arizona.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. Delivered invited talk during DoD MURI program review meeting at **ONR Headquarters**, April 6, 2018, Washington D.C.
32. Delivered a talk to a delegation from **Arkansas Economic Development Commission (AEDC)** visiting UALR-EIT on February 28, 2018.
33. 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.
34. Delivered a talk to a delegation from **Arkansas Academy of Computing (AAoC)** visiting UALR-EIT on October 28, 2017.
35. 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).

36. 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.
37. 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.
38. 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.
39. Delivered invited talk on Social Computing Research at the UA Little Rock New Faculty and Staff Convocation ceremony, August 15, 2017, Little Rock, Arkansas.
40. 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.
41. Participated in the **NSF National Workshop on Redefining Cyber Forensics**, May 23-24, 2017, Hartford, Connecticut. [Video]
42. 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
43. Delivered a talk on “Botnets and Propaganda Dissemination” at the **NATO PSYOP/INFO-OP Joint Working Group and Conference**, San Antonio, April 26, 2017.
44. 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.
45. Delivered invited lectures for the **NATO Social Media Analysis Course**, March 21-24, 2017, Riga, Latvia.
46. 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.
47. 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.

48. 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.
49. 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.
50. Understanding Influence Operations through Blogs and Twitter: Case of Daesh and Novorossiya, 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.
51. Understanding Influence Operations of Daesh and Novorossiya through Blogs and Twitter, presented at the **NATO TIDE Sprint ACT 2016 conference**, April 11-15, 2016, Krakow, Poland.
52. Understanding Influence Operations of Daesh and Novorossiya through Blogs and Twitter, presented at the **Dark Web Workshop, March 22-24, 2016, U.S. Naval Postgraduate School**, Monterey Bay, California.
53. 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.
54. 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.
55. 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.
56. Sociotechnical Behavior Mining delivered at the **UALR EIT Leadership Council** meeting on April 29, 2015, Little Rock, Arkansas.
57. Sociotechnical Behavior Mining: Challenges, Opportunities, and Beyond delivered at the **Naval Postgraduate School** on April 23, 2015, Monterey Bay, California.
58. Sociotechnical Behavior Mining: Challenges, Opportunities, and Beyond delivered at the **Florida State University** on February 19, 2015, Tallahassee, Florida.
59. 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.
60. 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.
61. 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.

62. 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.
63. Social Computing and Its Applications. Delivered at the Summer Workshop at **Hiram College**, June 15, 2013. Cleveland, Ohio.
64. 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.
65. 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.
66. 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.
67. 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.
68. Understanding Social Media and User Behavior. Delivered at **Axiom TResNet Conference**, November 8, 2011. Little Rock, Arkansas..
69. 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>)
70. 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.
71. 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/](http://videlectures.net/kdd08_liu_briat/).
72. Information Quality in Social Media: Challenges and Opportunities. **International Association for Information and Data Quality (IAIDQ)** - Student Chapter, Little Rock, Arkansas. September 17, 2010.
73. Behavior Patterns in Social Media and Applications. **Yahoo Research**, India. December 21, 2009.
74. Social Computing: Studying Behavior on Social Media. CSAM-EIT Colloquium Series, **University of Arkansas at Little Rock**. August 28, 2009.
75. Preparing for Academic Careers. Ph.D. Seminar, Arizona State University. May 15, 2009.



76. Social Computing in Blogosphere and Research Challenges. **University of Arkansas at Little Rock**. March 13, 2009.
77. Social Computing in Blogosphere and Research Challenges. **Wright State University**. February 12, 2009.
78. 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://videlectures.net/icwsm09\\_agarwal\\_siaifs/](http://videlectures.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://videlectures.net/kdd08\\_liu\\_briat/](http://videlectures.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://videlectures.net/wsdm08\\_agarwal\\_iib/](http://videlectures.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 **Natural Sciences and Engineering Research Council (NSERC), Canada**.
5. Served as external reviewer for **Research Grants Council (RGC), Hong Kong**.
6. Served as external reviewer for **Nazarbayev University Research Review**.
7. Served as external reviewer for **UT San Antonio Cyber Defense program**.
8. 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’.
9. Served as organizing chair for
  - a. Conference co-chair for International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP 2016, 2017, 2018, 2019), Washington D.C., USA.

- b. 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.
  - c. 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<sup>[L]<sub>SEP</sub>]</sup>
  - d. 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.
  - e. AAAI Spring 2015 Symposium on Socio-Technical Behavior Mining. March 23-25, 2015, Palo Alto, California, USA.
  - f. 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.
  - g. 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.
  - h. 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.
  - i. 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.
  - j. SBP 12 Challenge co-located with International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction (SBP 2012), April 3-5, 2012, Maryland, USA.
10. Served as program chair for
- a. International conference on Social Computing and Applications (SCA) 2011.
  - b. International conference on Social Computing and Applications (SCA) 2012.
  - c. International conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP) 2014.
  - d. International conference on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP) 2015.
11. Served as senior program committee member for the 23rd International Joint Conference on Artificial Intelligence (IJCAI) 2013.
12. Served as technical program committee member for
- a. SIGKDD: ACM International Conference on Data Mining and Knowledge Extraction.
  - b. ECML PKDD: European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases.
  - c. IJCAI: International Joint Conference on Artificial Intelligence.
  - d. CIKM: ACM Conference on Information and Knowledge Management.

- e. ICIQ: International Conference on Information Quality.
  - f. CPSCoM: IEEE/ACM International Conference on Cyber, Physical and Social Computing.
  - g. MEDES: ACM Conference on Management of Emergent Digital Ecosystems.
  - h. SDM: SIAM International Conference on Data Mining.
  - i. HT: ACM International Conference on Hypertext and Social Media.
  - j. FOSINT: International Symposium on Foundations of Open Source Intelligence and Security Informatics.
  - k. SBP: International Conference on Social Computing, Behavioral-Cultural Modeling, and Prediction.
  - l. SocialComp: International Conference on Social Computing, Behavior Modeling and Simulation
  - m. ASONAM: International Conference on Advances in Social Networks Analysis and Mining.
  - n. SOTICS: International Conference on Social Media Technologies, Communication, and Informatics.
  - o. ISDA: International Conference on Intelligent Systems Design and Applications.
  - p. WWW: International World Wide Web Conference.
  - q. CSoNet: Workshop on Computational Social Networks.
13. Served as program committee (PC) member for CIKM, MSM, SBP, MEDES, ASONAM, ICIQ, CPSCoM, SMUC, MEDES, SocialObjects, ASONAM.
  14. Served as tutorial co-chair for ASONAM 2013.
  15. Served as proceedings chair for Social Computing, Behavioral Modeling, and Prediction (SBP), SIAM Data Mining (SDM).
  16. Served as publicity chair for SOTICS, SBP and SIAM Data Mining (SDM).
  17. 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. Section Editor for **Springer Encyclopedia of Social Network Analysis and Mining** (ESNAM), 2nd Edition.
2. 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).
3. 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.

4. 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)
5. 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.
6. 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).
7. 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.
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 **The Journal of Systems and Software's** special issue on Social Cyber Systems. Co-editors: Aoying Zhou and Guandong Xu. Published by Elsevier. 2014.
10. 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.
11. 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.
12. Guest Editor for **IEEE Communications Magazine's** special issue on Social Networks meet Mobile Network. Co-editors: Seshadri Mohan and Ashutosh Dutta. June 2012.
13. Guest Editor for Elsevier **Journal of Computational Science's** special issue on Social Computational Systems. Co-editor: Xiaowei Xu. August 2011.
14. 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.
15. Editorial board member for the Springer Journal on **Social Network Analysis and Mining** (SNAM).
16. Editorial board member for the Springer's **Human Computation** journal.
17. Associate Editor for **Frontiers in Communication's** special section on Disaster Communications, Frontiers.
18. Associate editor for the **International Journal of Sensor Networks and Data Communications** (IJSNDC), IGI Global publishers.
19. Associate editor for the **International Journal of Interactive Communication Systems and Technologies** (IJICST), IGI Global publishers.

### University Service

1. **Faculty advisor for UALR Quiz Bowl**, an academic competition team for the students of UALR.
2. **University Committee for Vice Provost-Research/Dean, Graduate School Search** - represent the EIT College on the committee.
3. **University eLAG/Distance Education Committee** – represent the EIT College on the Electronic Learning Advisory Group overseeing all web-based courses in the University.
4. **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.
5. **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).
6. **College Faculty Marshal** during Spring 2014 Commencement Ceremony
7. **Department Promotion and Tenure Committee** – Member
8. **Arkansas Web Developers Group** – Member

#### **Professional Organizations & Memberships**

1. International Academy, Research, and Industry Association (IARIA), *Fellow*
2. Association for Information Systems (AIS), *Member*
3. Association for Computing Machinery (ACM), *Member*
4. Institute of Electrical and Electronics Engineers (IEEE), *Member*
5. American Association for the Advancement of Science (AAAS), *Member*
6. International Network of Social Network Analysis (INSNA), *Member*

#### **Dissertation Chair**

##### *Currently Serving*

1. Brian Blake (PhD, Fall 2015)
2. Ashequl Huq (PhD, Fall 2015)
3. Zachary Stine (PhD, Spring 2016)
4. Carmen Robinson (PhD, Fall 2016)
5. Esther Mead (PhD, Fall 2016)
6. Adewale Obadimu (PhD, Fall 2016) - 2017 LewerMark Make Your Mark Scholarship 2nd Prize winner
7. J. Patrick Birmingham (PhD, Spring 2017)
8. Tuja Khaund (PhD, Spring 2018)
9. Katrin Galeano (PhD, Spring 2018)
10. Rick Galeano (PhD, Spring 2018)
11. Abdullah Al Faysal (MS, Spring 2018)
12. Mustafa Alassad (PhD, Spring 2018)

13. Thomas Marcoux (PhD, Fall 2018)
14. Hayder Al Rubaye (PhD, Fall 2019)
15. Julie Weckerlein (PhD, Fall 2019)
16. Baris Kirdemir (PhD, Fall, 2019)
17. Recep Erol (PhD, Fall 2019)
18. Uchenna Umoga (MS, Fall 2019)
19. Seun Johnson (MS, Fall 2019)
20. Mainuddin Shaik (PhD, Fall 2019)
21. Rick Rejeleene (PhD, Fall 2019)
22. Maryam Maleki (PhD, Fall 2019)
23. Karen Watts (PhD, Spring 2020)
24. Billy Spann (PhD, Spring 2020)

#### *Graduated Students*

1. Masood Mir (PhD, Spring 2010 - Spring 2012), previously faculty at Rowan University, now DAS Engineer at Verizon Wireless.
2. Ismail Guvenc Yuce (PhD, Spring 2011 - Fall 2012)
3. Fatih Şen (PhD, Spring 2011 - Spring 2014), Biomedical Informatics Research Specialist at Le Bonheur Children's Hospital.
4. Faysal Ahmed (PhD, 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 PhD.
7. Serpil Tokdemir (PhD, Spring 2011 - Fall 2015), Data Scientist, Office of the Inspector Medicaid General, Little Rock, Arkansas.
8. Amit Saha (PhD, 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 (PhD, 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 PhD).
14. Najma Shaik (MS, Fall 2017 - Fall 2017).
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 (PhD, Fall 2015 - Fall 2017), Professor, Creighton University.
19. Andrew Pyle (MS, Spring 2018).
20. Kim Tran (PhD, Fall 2018), Dillard's, Inc.
21. Adekunle Adigun (MS, Fall 2017), Cisco.
22. Oluwaseun Walter (MS, Fall 2017), Amazon
23. Rita Chowdhury (MS, Fall 2017), Stephens, Inc.
24. Hayder Al Rubaye (MS, Summer 2019), Continuing PhD.
25. Kiran Kumar Bandeli (PhD, Fall 2019), Senior Data Scientist, Walmart, Inc.
26. Muhammad Nihal Hussain (PhD, Fall 2019), Postdoc, COSMOS
27. Richard Young (MS, Fall 2019)

28. Karen Watts (MS, Fall 2019), Technology and Innovation Manager, UAEX, continuing to PhD
29. Michael DiCicco (MS, Fall 2019)
30. Anal Kanti Roy (MS, Fall 2019)
31. Billy Spann (MS, Fall 2019), Verizon, continuing PhD.

### **Dissertation Committee Member**

Babak Amiri, University of Sydney, Australia, Doctoral Dissertation External Examiner; Lava Al-doski (PhD); Halil Bisgin (PhD); Brian Blake (PhD); Cheng Chen (PhD); Russell Eye (MS); Nasir Gasab (PhD); Fan Liu (PhD); Marilou Haines (PhD); Dinah Mande (MS); Eric Peterson (PhD); Natalija Pozniak (PhD, Vilnius University, Lithuania); Rania Saleem (MS); Jerry Wood (PhD); Lin Zhou (MS); Yinle Zhou (PhD).

### **Undergraduate Student Mentor**

1. Tyrique Johnson (Summer 2016, *LSAMP program*), University of Arkansas at Little Rock
2. Brandon Dalton (Summer 2016, *National Science Foundation's Research Experience for Undergraduate (REU) program*), Northeastern University
3. Shelby Sorrels (Summer 2015, *EIT Summer Undergraduate Program of Entrepreneurship and Research (SUPER) program*), Harding University.
4. Holly Ratliff (Summer 2015, *National Science Foundation's Research Experience for Undergraduate (REU) program*), Missouri Southern State University, Joplin, MO.
5. Sebastian Florez (Summer 2014, *National Science Foundation's Research Experience for Undergraduate (REU) program*), Stetson University.
6. Victoria Richardson (Summer 2014, *National Science Foundation's Research Experience for Undergraduate (REU) program*), Auburn University.
7. Praneeth Kaza (Fall 2013, UALR Undergraduate Research Experience).
8. Winfried Herring (Fall 2011, Exchange Student Program, Fernuniversität Hagen, Germany).

### **High School Student Mentoring**

1. Karina Batra (Summer 2019)
2. Rishik Kanchanapally (Summer 2019)
3. Alekhya Pidugu (Fall 2017 - Spring 2018)

### **Postdoctoral Mentees**

1. Dr. Serpil Tokdemir (October 2017 – January 2019)
2. Dr. Samer Al-khateeb (January 2018 – July 2018)
3. Dr. Fatih Sen (May 2018 – August 2018)
4. Dr. Muhammad Nihal Hussain (January 2020 – present)

### **COLLABORATORS**

Donald Adjero (West Virginia University), Kathleen Carley (Carnegie Mellon University), Sun-ki Chai (Department of Sociology, University of Hawai'i), Yi Chen (NJIT), Wen Dong (MIT Media Lab), Marcus Drescher (Technical University of Munich), Rick Galeano (NATO); Rebecca L Goolsby (ONR); Audrey Korsgaard (University of South Carolina), William G.

Kennedy (George Mason University), Kiran Lakkaraju (Sandia National Lab), Merlyna Lim (Canada Research Chair, Carleton University), Huan Liu (ASU), Sudheendra Murthy (eBay), O. Isaac Osesina (Aware Inc.), Arnold Picot (Ludwig Maximilians University Munich), Srinivas Ramaswamy (ABB), John Salerno (Air Force Research Lab), Arunabha Sen (ASU), Thomas A.J. Schweiger (Acxiom Corp.), Shankar B. Subramanya (@Walmart Labs), Lei Tang (@Walmart Labs), Martha VenkatSwamy (@Walmart Labs), Rolf T. Wigand (UALR), Mark Woodward (Center for Religious Studies, ASU), Petros Xanthopoulos (University of Central Florida), Xiaowei Xu (UALR), Shanchieh Jay Yang (Rochester Institute of Technology), Philip S. Yu (University of Illinois at Chicago), Jianping Zhang (Deloitte).



## PUBLICATIONS

### Books

1. **Nitin Agarwal**, Leonidas Sakalauskas, and Gerhard-Wilhelm Weber. Modeling and Simulation of Social-Behavioral Phenomena in Creative Societies. Proceedings of the First International EURO Mini Conference, MSBC 2019, Vilnius, Lithuania, September 18–20, 2019. Springer. ISBN: 978-3-030-29862-3, <https://www.springer.com/gp/book/9783030298616>
2. Samer Al-khateeb and **Nitin Agarwal**. Deviance in Social Media and Social Cyber Forensics: Uncovering Hidden Relations Using Open Source Information (OSINF). Springer Briefs in Cybersecurity. Springer, 2019. ISBN: 978-3-030-13689-5. <https://www.amazon.com/Deviance-Social-Media-Cyber-Forensics/dp/3030136892/>
3. **Nitin Agarwal**, Nima Dokoohaki, Serpil Tokdemir. Emerging Research Challenges and Opportunities in Computational Social Network Analysis and Mining, Lecture Notes in Social Networks. Springer, 2018. ISBN-13: 978-3319941042. <https://www.amazon.com/Emerging-Research-Challenges-Opportunities-Computational/dp/3319941046/>
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5. Jalal Kawash, **Nitin Agarwal**, and Tansel Özyer. Prediction and Inference from Social Networks and Social Media, Lecture Notes in Social Networks. Springer, 2017. ISBN: 978-3-319-51049-1. <https://www.amazon.com/Prediction-Inference-Social-Networks-Lecture/dp/3319510487/>
6. **Nitin Agarwal**, Kevin Xu, and Nathaniel Osgood. Social Computing, Behavioral-Cultural Modeling, and Prediction. SBP 2015, Springer, March 2015. ISBN: 978-3-319-16267-6 (Print) 978-3-319-16268-3 (Online) <http://www.amazon.com/Social-Computing-Behavioral-Cultural-Modeling-Prediction/dp/3319162675/>
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9. **Nitin Agarwal**. Social Computing in Blogosphere: Challenges, Methodologies, and Opportunities. LAP Lambert Academic Publishing. 2010. ISBN: 9783838328218, Online: <http://www.amazon.com/Social-Computing-Blogosphere-Nitin-Agarwal/dp/3838328213/>

10. **Nitin Agarwal** and Huan Liu. Modeling and Data Mining in Blogosphere. Synthesis Lectures on Data Mining and Knowledge Discovery, Vol. 1. Morgan & Claypool Publishers. Robert Grossman (Editor). 2009. ISBN: 9781598299083 (paperback) ISBN: 9781598299090 (ebook). Online:  
<http://www.morganclaypool.com/doi/abs/10.2200/S00213ED1V01Y200907DMK001>,  
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### **Book Chapters and Encyclopedia Entries**

1. Esther L. Mead and **Nitin Agarwal**. Surface Web vs Deep Web vs Dark Web. Encyclopedia of Big Data, Laurie A. Schintler and Connie L. McNeely (Eds.). Springer. Forthcoming.
2. Samer Al-khateeb and **Nitin Agarwal**. Social Media and Security. Encyclopedia of Big Data, Laurie A. Schintler and Connie L. McNeely (Eds.). Springer. Forthcoming.
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22. **Nitin Agarwal**, Magdiel Galan, Huan Liu, and Shankar Subramanya. Clustering of Blogs using Collective Wisdom, *Computational Social Network Analysis: Trends, Tools, and Research Advances*. Chapter 14. Editors: Ajith Abraham, Aboul-Ella Hassanien and Vaclav Snasel. Springer-Verlag London Ltd, 2010.
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24. **Nitin Agarwal**, Huan Liu, John Salerno, and Philip S. Yu. Searching for ‘Familiar Strangers’ on Blogosphere, *Next Generation of Data Mining*. Chapter 15, Editors: Hillol Kargupta, Jiawei Han, Philip S. Yu, Rajeev Motwani, and Vipin Kumar. Chapman & Hall/CRC Press, 2008.
25. K. Selcuk Candan, Jong Wook Kim, Huan Liu, Reshma Suvarna, and **Nitin Agarwal**. Exploiting Spatial Transformations for Identifying Mappings in Hierarchical Media Data, *Multimedia Data Mining and Knowledge Discovery*. Chapter 13. Editors: Valery Petrushin and Latifur Khan. Springer, 2006. DOI: 10.1007/978-1-84628-799-2\_13.

### **Journal Articles**

1. Zachary Stine and **Nitin Agarwal**. Characterizing the language-production dynamics of social media users. *Social Network Analysis and Mining (SNAM)*. Vol. 9, Issue 1, pp. 60. DOI: 10.1007/s13278-019-0605-7.
2. Samer Al-khateeb and **Nitin Agarwal**. Social cyber forensics: leveraging open source information and social network analysis to advance cyber security informatics. *Computational and Mathematical Organization Theory*, 2019. DOI: 10.1007/s10588-019-09296-3.
3. Kiran Kumar Bandeli and **Nitin Agarwal**. Analyzing the Role of Media Orchestration in Conducting Disinformation Campaigns on Blogs. *Journal of Computational and Mathematical Organization Theory*, 2018. DOI: 10.1007/s10588-018-09288-9.

4. **Nitin Agarwal** and Kiran Kumar Bandeli. Examining Strategic Integration of Social Media Platforms in Disinformation Campaign Coordination. *Journal of NATO Defence Strategic Communications*, Vol. 4, pp. 173-206, 2018. DOI: 10.30966/2018.RIGA.4.6.
5. Esther Ledelle Mead, Muhammad Nihal Hussain, Mohammad Nooman, Samer Al-khateeb, **Nitin Agarwal**. Voices from Venezuela: Examining blogs to study the socio-political-economic crisis and consequent emigration. *IARIA International Journal On Advances in Internet Technology*, Vol. 11, No. 1-2, pp. 70-81, 2018.
6. Rachida Parks, Paul Benjamin Lowry, Rolf T. Wigand, **Nitin Agarwal**, and Therese Williams. Why Students Engage in Cyber-Cheating through a Collective Movement: A Case of Deviance and Collusion. *Computers & Education*. 2018. Elsevier. DOI: 10.1016/j.compedu.2018.04.003
7. Brian Blake and **Nitin Agarwal**. Modeling User-Based Modifications to Information Quality to Address Privacy and Trust Related Concerns in Online Social Networks. *IARIA International Journal on Advanced in Security*, vol.10, pp. 72-89, 2017.
8. **Nitin Agarwal**, Samer Al-khateeb, Rick Galeano, and Rebecca Goolsby. Examining the Use of Botnets and their Evolution in Propaganda Dissemination. *Journal of NATO Defence Strategic Communications*, Vol. 2, pp. 87-112. 2017.
9. **Nitin Agarwal** and Faysal Ahmed. Developing Collective Learning Extension for Rapidly Evolving Information System Courses. *Education and Information Technologies*, Special Issue on Teachers and Social Networking Sites. Alona Forkosh Baruch, Arnon Hershkovitz and Christine Greenhow (Eds.) Vol. 22, Issue 1, pp. 7-37, 2017. DOI: 10.1007/s10639-015-9394-4. Springer.
10. Kevin Xu, **Nitin Agarwal**, Dongwon Lee, and Nathaniel Osgood. Special issue on Social Computing, Behavioral-Cultural Modeling, and Prediction. *IEEE Transactions on Computational Social Systems (TCSS)* 2016.
11. Samer Al-Khateeb, Kevin J Conlan, **Nitin Agarwal**, Ibrahim Baggili and Frank Breitingner. Exploring Deviant Hacker Networks (DHN) On Social Media Platforms. *Journal of Digital Forensics, Security and Law*, 11(2), pp. 7-20, 2016.
12. Fatih Sen, Rolf T. Wigand, **Nitin Agarwal**, Serpil Yuce, and Rafal Kasprzyk. Focal Structures Analysis: Identifying Influential Sets of Individuals in a Social Network. *Journal of Social Network Analysis and Mining*, Springer, 6(1), pp.1-22, 2016. DOI: 10.1007/s13278-016-0319-z.
13. Amit Saha and **Nitin Agarwal**. Modeling Social Support in Autism Community on Social Media. *Network Modeling Analysis in Health Informatics and Bioinformatics*. February 2016. Springer. DOI: 10.1007/s13721-016-0115-8.
14. Samer Al-Khateeb and **Nitin Agarwal**. Understanding Strategic Information Maneuvers in Network Media to Advance Cyber Operations: A Case Study Analyzing pro-Russian Separatists' Cyber Information Operations in Crimean Water Crisis. *Journal on Baltic Security*, Vol. 2, Issue 1, pp. 6-27, 2016.
15. **Nitin Agarwal** et al. Reports on the 2015 AAAI Spring Symposium Series. *AI Magazine*. Vol. 36, Issue 3, pp. 113-119. AAAI. Fall 2015.

16. Seshadri Mohan, **Nitin Agarwal**, Ashutosh Dutta, Sudhir Dixit, and Ramjee Prasad. Social Networks Meet Next Generation Mobile Multimedia Internet. *Communications Magazine*, IEEE 53 (10), pp.124-126. October 2015.
17. **Nitin Agarwal** and Faysal Ahmad. Developing Collective Learning Extension for Rapidly Evolving Information System Courses. *Education and Information Technologies, Special Issue on Teachers and Social Networking Sites*. Alona Forkosh Baruch, Arnon Hershkovitz and Christine Greenhow (Eds.) DOI: 10.1007/s10639-015-9394-4. pp. 1-31. 2015. Springer.
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21. **Nitin Agarwal**, Aoying Zhou, and Guandong Xu. Social cyber systems—Challenges, opportunities, and beyond. *Journal of Systems and Software*, Elsevier. Vol. 94, pp. 1-3, August 2014. DOI: 10.1016/j.jss.2014.05.022.
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24. Soumya Banerjee and **Nitin Agarwal**. Analyzing Collective Behavior from Blogs Using Swarm Intelligence. *Knowledge and Information Systems (KAIS)* special issue on Behavior Computing, December 2012, Volume 33, Issue 3, pp. 523-547. Springer, December 2012. DOI: 10.1007/s10115-012-0512-y. [Impact factor = 2.225 for 2011]
25. Martha Venkata Swamy, **Nitin Agarwal**, and Srinu Ramaswamy. Collective Context Based Privacy Model. *Journal of Ambient Intelligence and Humanized Computing*. Springer, 2012. DOI: 10.1007/s12652-014-0241-z.
26. **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) **Best IS Publication of 2012 Award.**

27. **Nitin Agarwal**, Huan Liu, Lei Tang, and Philip S. Yu. Modeling Blogger Influence in a Community. *Social Network Analysis and Mining*, Vol. 2, No. 2, pp. 139-162, 2012. Springer. DOI: 10.1007/s13278-011-0039-3.
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32. **Nitin Agarwal** and Huan Liu. Blogosphere: Research Issues, Tools, and Applications. *ACM SIGKDD Explorations*, Vol. 10, Issue 1, pp. 18-31. 2008.
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35. **Nitin Agarwal**, Ehtesham U. Haque, Huan Liu and Lance Parsons. A Subspace Clustering Framework for Research Group Collaboration. *International Journal on Information Technology and Web Engineering*, Vol. 1, Issue 1, pp. 35-58. 2006.

### **Conference Proceedings**

1. 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.
2. 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.
3. 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.



4. 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.
5. 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)
6. 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)
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.



14. 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.
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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)
- Association for Computing Machinery (ACM)
- Association for Information Systems (AIS)
- International Academy, Research and Industry Association (IARIA), *Fellow*
- Institute of Electrical and Electronics Engineers (IEEE)
- International Network of Social Network Analysis (INSNA)