CURRICULUM VITAE
ANUPAM JOSHI

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Education:

Ph.D., Computer Science	1993	Purdue University
M.S., Computer Science	1991	Purdue University
B.Tech., Electrical Engineering	1989	Indian Institute of Technology, Delhi

Experience in Higher Education:

2015 – date	Chair, CSEE Department
2012 - date	Director, Cyberscholars Program
2012 – date	Director, UMBC Center for Cybersecurity
2019 – date	Affiliate Professor, Diagnostic Radiology, University of Maryland
2018 – date	Affiliate Professor, Department of Medicine, University of Maryland
2011 – date	Oros Family Professor
2005 – date	University of Maryland, Baltimore County, Professor (tenured), Comp. Sc. Elec. Eng. On sabbatical in AY 14-15, Visiting Prof at IIT Delhi and IIIT-Delhi On partial leave AY 08-09, AY 09-10 at IBM IRL On sabbatical in AY 05-06, spent partly at IBM IRL, IIT-B
2001 – 2005	University of Maryland, Baltimore County, Assoc. Professor (tenured), Comp. Sc. Elec. Eng.
1998 – 2001	University of Maryland, Baltimore County, Asst. Professor, Comp. Sc. Elec. Eng.
2000 – 2003	UMIACS, Joint Appointment
1996 – 1998	University of Missouri, Asst. Professor, Comp. Eng. Comp. Sc.
1993 – 1996	Purdue University, Visiting Asst. Professor, Computer Sciences
1992 – 1993	Purdue University, Teaching Assistant, Computer Sciences
1991 – 1992	Purdue University, David Ross (PRF) Fellow, Computer Sciences
1989 – 1991	Purdue University, Teaching Assistant, Computer Sciences

Experience in Other than Higher Education:

Oct14 – Sep 2019	Co Technical Director, NCCoE FFRDC, NIST
Sep08 - Aug 10	Visiting Scientist at IBM India Research Labs
Nov 05-Mar 06	Sabbatical visitor at IBM India Research Labs
1988 – 1988	IDM Ltd., Bombay, Summer Intern (R&D Division)

Research Interests
- Pervasive, Mobile, Sensor and Networked Computing
    - Information and Data Management, Security, Networking
    - Context Awareness, especially in Healthcare Delivery and Security

- AI and Security
- Policies, Security, Trust, and Privacy in Open Distributed systems
- Prescriptive/Predictive Analytics and Semantic Web
  - Social Media, Healthcare, and Cybersecurity related data
- Distributed AI (MultiAgent systems), Neuro-Fuzzy Systems, Learning and Adaptation, HPCC

Research Support:

2020-2021	*ST: SCC-PG: Bridging the Digital Gap and Identifying Cross-Cultural Pathways for Adoption of IoT Technologies to Support Super-Aging Societies in the U.S. and Japan*, $75K, NSF, PI
2019-2022	*HDR DSC: Collaborative Research: Creating and Integrating Data Science Corps to Improve the Quality of Life in Urban Areas*, $614K, NSF, CoPI.
2019-2022	*MRI: Acquisition of a Heterogeneous GPU Cluster to Facilitate Deep Learning Research at UMBC*, $300K, NSF, Senior Personnel.
2019-2020	*A Peer-led Team Learning Framework for Ethics in Computing*, $149K, Mozilla Foundation. CoPI.
2019-2020	*Integrated Cyber&Physical Security for Smart Homes*, $100K, Maryland Industrial Parnerships (MIPS), PI.
2018-2020	*EAGER:X+CS Pathways for non CS majors*, $299K, NSF, PI.
2018-2020	*Attribute Based Access Control for the Internet of Things*, $119K, NIST, PI
2018-2019	*Cognitive Cybersecurity*, $150K, DoD (via BAH), PI.
2018-2021	*Autonomic Cyber-Physical Systems: Resilience to Cyber Attacks*, $195K, ONR, CoPI.
2016-2019	*Accelerated Cognitive Cybersecurity Lab*, $1M, IBM, PI.
2016-2017	*Beyond Watson support for ALDA project*, $120K, NSF (supplement to NSF I/UCRC from NSA), CoPI on supplement.
2016-2017	*Building New Undergraduate Cyber Career Pathways for Students*, $10K, ONR through BHEF, PI.
2016-2019	*STO5 Technical Integrator Task Order*, $166K, NIST through MITRE, PI.
2016-2016	*STO7 Healthcare Task Order*, $68K, NIST through MITRE, PI.
2015-2018	*Anomaly Detection in Cyber-physical Systems: Resilience by Degree of Awareness*, $173,360, ONR, CoPI (Ryan Robucci PI)
2015-2016	*STO2 Basic Research Task Order*, $25K, MITRE, PI
2015-2017	*Beyond Watson Research Support*, $376K, NSF (supplement to NSF I/UCRC from NSA), PI on supplement (M. Halem PI on main award)
2013-2014	*Beyond Watson*, $140,535, NSF (supplement to NSF I/UCRC from NSA), PI on supplement (M. Halem PI on main award)
2012-2016	*T2K: From Tables to Knowledge*, $200K, NSF, PI
2012-2016	*Policy Compliant Integration of Linked Data*, $400K, NSF, CoPI (Tim Finin, PI)
2012-2014	*Social Media Analytics*, $80K, NSF I/UCRC/ Northrop Grumman, PI
2011-2012	*Situational Awareness for Threat/Vulnerability Detection*, $40K, Northrop Grumman, PI
2010-2013	*Application of Multicore Processing to Advance Personalized Medicine, Software Assurance, and Health IT*, $396K, NIST, CoPI (Yelena Yesha, PI)

2009-2012	*Platys: From Position to Place*, $700K, NSF, CO-PI (Tim Finin, PI). Collaborative grant with NCSU and Duke who got separate awards.
2009-2013	*Generating Semantic Metadata from Biomedical Images*, $500K, NIST, CoPI (Yelena Yesha,PI)
2009-2010	*Inferring the semantics of structured and unstructured data*, $100K, Microsoft External Research, CoPI (Tim Finin, PI).
2009-2011	*Understanding RSM: Relief Social Media*, $270K, Office of Naval Research (via subcontract from Lockheed Martin), CoPI (Tim Finin, PI)
2008-2010	*Policy-based WAN Configuration and Management*, $224K, DARPA (Phase II STTR with Shared Spectrum Company), PI.
2008-2013	*A Framework for Managing the Assured Information Sharing Lifecycle*, Multi-disciplinary University Research Initiative (MURI), $7.5M, AFOSR, CoPI (Tim Finin PI). UMBC is the lead institution. The amount is the total across all institutions with options. The UMBC share is about 25%
2008-2009	*Modeling influence, bias and information flow in Social Media*, $60K, Google, CoPI (Tim Finin, PI)
2008-2009	*Modeling bias, influence and information flow in social media*, $55K, Microsoft Research, CoPI (Tim Finin, PI)
2007-2008	CT-T: Collaborative Research: A Semantic Framework for Policy Specification and Enforcement in a Need to Share Environment, $50,000, National Science Foundation, CoPI (Tim Finin PI) (separate funding to UTD and UTSA for joint work)
2007-2009	MC2 (Muticore Computational Center), $***,*** (exact amount confidential), IBM, CoPI (M. Halem PI).
2007	Database security in Ad-Hoc Networks, $40K, Agnik LLC (STTR Phase 1 from DoD), PI
2007	SPINTEL:Information Quality for the Intelligence Analysis, $40K, Lockheed Martin, CoPI (Tim Finin, PI).
2007-2008	Context Aware Surgical Training, $168K, University of Maryland Medical System, coPI (Tim Finin, PI).
2006-2007	PWAN – Policy Driven Adaptive Networks, $40K, CoPI SharedSpectrum, Inc., STTR Phase 1 from DARPA
2006	Faculty Award, $20,000, PI, IBM
2005-2007	Automatically creating an Electronic Medical Encounter Record, $200000, University of Maryland Medical System (DARPA Traumapod subcontract), co PI
2004	Shared University Research Grant, $88,000 (approx), CoPI (M. Halem, PI), IBM.
2003-2008	ITR-SemDis: Discovering Complex Relationships in Semantic Web, $453,417, National Science Foundation, P.I.
2003-2008	ITR: Science on the Semantic Web: Prototypes in Bioinformatics, $2,350,000, National Science Foundation, Co-PI (T. Finin, PI. Other CoPIs from UMCP, UCSD, UCSF)
2003-2006	Trust and Security for the Semantic Web, $240,000, National Science Foundation, CoPI (T. Finin, PI)
2003	Equipment Grant, $125,000 (approx), CoPI (Y. Yesha, PI), Cisco Systems
2003	Shared University Research Grant, $250,000 (approx), CoPI (Y. Yesha, PI), IBM.
2002-2005	Subcontract for Security in Pervasive Computing, $73,596, BAH/NIST, P.I.

2003-2004	An Eclipse IDE for Security, Trust and Privacy Policies, IBM, $40,000, P.I.
2002-2003	UPP Award, $52,000, IBM
2002	Research Support for Pervasive Computing, $15,000, Fujitsu Labs of America, P.I.
2002-2005	Profile Driven Architecture for Data Management in Pervasive Environments, $153,190, National Science Foundation, P.I.
2002-2005	Agent Oriented Approaches to a Ubiquitous Grid, $480,726, National Science Foundation, P.I.
2002	Support for Organizing the 2002 IDM PIs Meeting, $224,905, National Science Foundation, Co-PI
2001	A Simulator to evaluate/prototype Local Area and Personal Area Wireless Network protocols and products, $79,800, AetherSystems Inc, Co-PI (D. Phatak, PI)
2000	Disconnected Web Browsing, $69,332, AetherSystems Inc, P.I.
2000	Home Automation Service Discovery, $132,720, AetherSystens Inc, Co-PI (T. Finin, PI)
2000-2004	Dynamic Negotiation Agents in Mobile Computing, $174,000, National Science Foundation, P.I.
2000-2005	DAML Program, $1,742,524, DARPA, Co-PI (T. Finin PI, Two other CoPIs from JHU-APL and MIT).
2000	An Expertise Recommender using Web Mining, $58,089, NASA/USRA, P.I.
2000	Data Analysis for Intrusion Detection, $15,000, Department of Defence, Co-PI. (C. Nicholas, PI)
1999-2004	CAREER: MultiAgent Systems to Support Mobile Information Access, $213,952, National Science Foundation, P.I.
July 1999	Summer Fellowship, UMBC Graduate School, $2500,
1998-2002	Web Mining and Personalization Using Robust Fuzzy Clustering, $163,713, National Science Foundation, PI (Separate Collaborative award to colleague at Colorado School of Mines)
1998-99	ILI: Distributed Systems Lab, $91,960 ($41,460 from NSF, $50,000 match), National Science Foundation, P.I.
1997-1999	Ubiquitous Computing to Support Humanitarian Demining, $30,815, Research Board - University of Missouri, P.I. (This award was transferred to H. Shi at my request when I left the University of Missouri)
1997-1999	UPP Faculty Development Award - Intelligent Agent Proxies to support Mobile Computing, $80,000 + Equipment, IBM Corporation, P.I.
1998-1999	A vBNS Connection for the University of Missouri-Columbia, $350,000(NSF) + $600,000 (Cost Share), National Science Foundation, Faculty Associate,
1997	Faculty International Travel Award, $600, University of Missouri
1995	Unrestricted grant to support research in Mobile Computing, $10,000, Intel Corporation, Co-PI.
1995	SciencePad Project, $90,000, Intel Corporation, Co-PI .
1995	Equipment award of for "Purdue-on-Line'', over $150,000, IBM Corporation, co-PI
1994-1996	NSF (CISE) Research Associate Award given to E. N. Houstis to support my work in ubiquitous, intelligent scientific computing, $46,200 , National Science Foundation
1994	Special Purpose Grants in Science and Engineering - Classroom of the future project, $22,000, AT&T Foundation, Co-PI

Research Support for Students
NSF Graduate Fellowship for Patricia Ordonez, 2007-2010
IBM Fellowship from Toronto CAS for Dipanjan Chakraborty, $78,000, 2001-2003
Provost's UGRA Award for Amina Mahmood, $1500, 2020-2021
Provost's UGRA Award for Mohammed Khalid, $1500, 2020-2021
Provost's UGRA Award for Morgan Madiera, $1500, 2011-2012.
Provost's UGRA Award for Ramya Ramakrishnan, $1500, 2001-2002.

Patents

1. *US9,558,267*, Real Time Data Mining, Koustuv Dasgupta, Nilanjan Banerjee, Dipanjan Chakraborty, Sumit Mittal, Seema Nagar, ***Anupam Joshi***, Angshu Rai
2. *US9,378,349*, Enabling Secure Transactions between spoken web sites, ***Anupam Joshi***
3. *US9,223,953*, Enabling Secure Transactions between spoken web sites, ***Anupam Joshi***
4. *US8,898,163,* Real Time Information Mining, Nilanjan Banerjee, Dipanjan Chakraborty, ***Anupam Joshi***, Sumit Mittal, Seema Nagar, Angshu Rai, Koustuv Dasgupta
5. *US8,825,661*, Systems and methods for two stream indexing of audio content, ***Anupam Joshi***, Sougata Mukherjea, Nitendra Rajput
6. *US8,539,561*, Systems and methods to control device endpoint behavior using personae and policies, Akhilesh Gupta, ***Anupam Joshi***, Gopal Pingali
7. *US8,522,023*, Rural services platform, Vikas Agarwal, ***Anupam Joshi***, Shalini Kapoor, Sumit Mittal, Sougata Mukherjea
8. *US8,447,269*, Systems and methods for joint analytics on user level and network level data of a communications network, ***Anupam Joshi***, Ravi Kothari, Ankur Narang
9. *US8,463,705*, Systems and methods for transactions on the telecom web, ***Anupam Joshi***, Srinivas G Narayana, Aaditeshwar Seth

Publications:
These may be slightly dated. For an up-to-date list, see ***http://ebiquity.umbc.edu/papers/***
<u>Books</u>
1. Data Mining: Next Generation Challenges and Future Directions,. (H. Kargupta, A. Joshi, K. Sivakumar, and Y. Yesha, Eds.), AAAI/MIT Press 2004
2. Ahmed Elmagarmid, Haitao Jiang, Abdelsalam Helal, Anupam Joshi, Magdy Ahmed, Video Database Systems: Issues, Products and Applications, 1997, Kluwer Academic Publishers.

<u>Book Chapters</u>
1. Sandeep Nair Narayanan, Kush Khanna, Bijaya Ketan Panigrahi, ***Anupam Joshi***, Security in smart cyber-physical systems: a case study on smart grids and smart cars, Smart Cities Cybersecurity and Privacy (D. Rawat and K. Ghafoor, Eds), pp 147-163, https://doi.org/10.1016/B978-0-12-815032-0.00011-1, Elsevier.
2. Wenjia Li, Palanivel Andiappan Kodeswaran, Pramod Jagtap, ***Anupam Joshi***, and Tim Finin, Managing and Securing Critical Infrastructure - A Semantic Policy and Trust Driven Approach, Handbook on Securing Cyber-Physical Critical Infrastructure: Foundations and Challenges, Das, Kant, Zhang (Eds.), Morgan Kaufman, 2012
3. Jim Parker, Anand Patwardhan, Filip Perich, ***Anupam Joshi***, and Tim Finin, Trust in Pervasive Computing, Mobile Middleware, pp 473-496, CRC Press, February 2006.

4. Filip Perich, **Anupam Joshi**, and Rada Chirkova, Data Management for Mobile Ad-Hoc Networks, Enabling Technologies for Wireless e-Business Applications, W Kou, and Yelena Yesha (Eds), Springer, July 2005
5. Harry Chen, Tim Finin, and **Anupam Joshi**, The SOUPA Ontology for Pervasive Computing, Ontologies for Agents: Theory and Experiences, Valentina Tamma, Stephen Cranefield, and Tim Finin (Eds), Springer, July 2005
6. Jeffery Undercoffer and **Anupam Joshi**, On Data Mining, Semantics, and Intrusion Detection: What to dig for and Where to find it, in Data Mining: Next Generation Challenges and Future Directions,. (H. Kargupta, A. Joshi, K. Sivakumar, and Y. Yesha, Eds.), pp. 437-460, AAAI/MIT Press 2004
7. Sasi Avancha, Jeffrey Undercoffer, **Anupam Joshi** and John Pinkston, Security for Sensor Networks, in *Wireless Sensor Networks*, C. S. Raghavendra, Krishna M. Sivalingam and Taieb Znati (Eds), Kluwer Academic Publishers, May 2004,
8. Lalana Kagal, James Parker, Harry Chen, **Anupam Joshi**, and Tim Finin, Security, Trust and Privacy in Mobile Computing Environments, in *Handbook of Mobile Computing*, Imad Mahgoub and Mohammad Ilyas (eds.), CRC Press, 2004,
9. Sasikanth Avancha, Dipanjan Chakraborty, Filip Perich, and **Anupam Joshi**, Data and Services for Mobile Computing, in *Handbook of Internet Computing*, Munindar Singh(Ed.), pp 36.1 – 36.16, CRC Press, 2004
10. **Anupam Joshi**, Tim Finin, and Yelena Yesha, Me--Services, A Framework for Secure and Personalized Discovery, Composition and Management of Services in a Pervasive Environment, in *Web Services, E-Business and the Semantic Web (LNCS 2512)*, C. Bussler, R. Hull, S. McIliraith, M.E. Orlowska, B. Pernici, J. Yang (Editors), Springer Verlag, 2002, pp. 248-259. (note: Extended version of a paper presented at WES Workshop, CAiSE 2002)
11. **Anupam Joshi**, Z. Jiang, Retriever: Improving Web Search Engine Results Using Clustering, in *Managing Business with Electronic Commerce: Issues and Trends,* (A. Gangopadhyay, Editor), Idea Press, 2001.
12. **Anupam Joshi**, N. Ramakrishnan, E. N. Houstis, MultiAgent Recommender Systems in Networked Scientific Computing, in *Enabling Technologies for Computational Science - Frameworks, Middleware and Environments*, Kluwer Academic, 2000.
13. E. Houstis, J.R. Rice, N.Ramakrishnan, T. Drashansky, S.Weerawarana, **Anupam Joshi**, and C. Houstis, Multidisciplinary Problem Solving Environments for Computational Science, in *Advances in Computers* (M. Zelkovitz, Ed) vol 46, pp 402-438, New York, Academic Press, 1998.

Journals

1. Donald Norris, Laura Mateczun, **Anupam Joshi** and Tim Finin, Managing Cybersecurity at the Grassroots: Evidence from the First Nationwide Survey of Local Government Cybersecurity, *Journal of Urban Affairs, Routledge*, to appear, 2020.
2. Alejandra Diaz, Alan T Sherman, **Anupam Joshi**, Phishing in an academic community: A study of user susceptibility and behavior, *Cryptologia, 44*:1, pp 53-67, 2020
3. Kush Khanna, Bijaya Ketan Panigrahi, **Anupam Joshi**, Priority-Based Protection Against the Malicious Data Injection Attacks on State Estimation, *IEEE Systems Journal*, **14:**2 pp. 1945-1952, June 2020, doi: 10.1109/JSYST.2019.2933023.
4. S.K. Singh, R. Bose, **Anupam Joshi**, Energy Theft Detection for AMI using Principal Component Analysis based Reconstructed Data, *IET Cyber-Physical Systems: Theory & Applications*, **4:**2, 2019.
5. Donald Norris, Laura Mateczun, **Anupam Joshi**, and Tim Finin, Cybersecurity at the Grassroots: American Local Government and The Challenges of Internet Security, *Journal

of Homeland Security and Emergency Management, accepted for publication, DOI: https://doi.org/10.1515/jhsem-2017-0048

6. Donald Norris, Laura Mateczun, ***Anupam Joshi*** and Tim Finin, Cyberattacks at the Grass Roots: American Local Governments and the Need for High Levels of Cybersecurity, *Public Administration Review*, **79**:6, pp 805-904, 2019.

7. K. Chopra, R. Bose and ***Anupam Joshi***, Stackelberg Game for Price and Power Control in Secure Cooperative Relay Network, *IET Cyber Physical System*, **4**:1, pp 58-67 2019

8. S.K. Singh, Kush Khanna, R. Bose, B.K. Panigrahi, and ***Anupam Joshi***, Joint-Transformation-Based Detection of False Data Injection Attacks in Smart Grid, *IEEE Transactions on Industrial Informatics*, **14**:1, pp 89-97, 2018

9. K. Chopra, R. Bose and ***Anupam Joshi***, Secrecy Outage of Threshold-Based Cooperative Relay Network With and Without Direct Links, *Springer EURASIP Journal on Information Security*, 2018

10. S.K. Singh, R. Bose, Anupam Joshi, Entropy-based electricity theft detection in AMI network, *IET Cyber-Physical Systems: Theory & Applications* **3:**2, pp 99-105, 2018

11. Kush Khanna, B.K. Panigrahi, ***Anupam Joshi***, AI based approach to identify compromised meters in Data Integrity Attacks on Smart Grid, *IET Generation, Transmission and Distribution,* **12**:5, pp 1052-1066*.*

12. Kush Khanna, B.K. Panigrahi, ***Anupam Joshi***, Bi-level modelling of false data injection attacks on security constrained optimal power flow, *IET Generation, Transmission and Distribution*, **11**:14, pp. 3586-3593, 2017

13. K. Chopra, R. Bose and ***Anupam Joshi***, Secrecy Performance of Threshold-Based Decode-and-Forward Cooperative Cognitive Radio Network, *IET Communications Journal*, Feb. 2017

14. Kush Khanna, B.K. Panigrahi, ***Anupam Joshi***, Data Integrity Attack in Smart Grid: Optimized Attack to Gain Momentary Economic Profit, *IET Generation, Transmission and Distribution*, **10**:16, pp. 4032-4039, 2016, DOI 10.1049/iet-gtd.2016.0350

15. Paridhi Jain, Ponnurangam Kumaraguru, ***Anupam Joshi***, Other times, other values: leveraging attribute history to link user profiles across online social networks, *Social Netw. Analys. Mining* **6**:1, 2016 (extended version of HT 15 paper).

16. Randy Schauer, ***Anupam Joshi***, Distributed system configuration management using Markov logic networks. *Int. J. Auton. Comp.* **2**:2, pp 137-154 (2016)

17. Jennifer Sleeman, Tim Finin, ***Anupam Joshi***, Entity Type Recognition for Heterogeneous Semantic Graphs, *AI Magazine*, **36**:1, pp 75-86.

18. Laura Zavala, Pradeep K. Murukannaiah, Nithyananthan Poosamani, Tim Finin, ***Anupam Joshi***, Injong Rhee, and Munindar P. Singh. Platys: From Position to Place-Oriented Mobile Computing, pp. 1-9, *AI Magazine*, v35, n4, Winter, 2014.

19. Aniket Bochare, Aryya Gangopadhyay, Yelena Yesha, ***Anupam Joshi***, Yaacov Yesha, Mary Brady, Michael A. Grasso, Naphtali Rishe, Integrating domain knowledge in supervised machine learning to assess the risk of breast cancer, *Intl. J. Med. Eng. Informatics (IJMEI)*, **6**:2, pp 87-99, 2014

20. Wenjia Li, ***Anupam Joshi***, Tim Finin, CAST: Context-Aware Security and Trust framework for Mobile Ad-hoc Networks using Policies, *Distributed and Parallel Databases* **31:**2, pp 353-376, 2013, DOI 10.1007/s10619-012-7113-3

21. Lushan Han, Tim Finin, Paul McNamee, ***Anupam Joshi***, and Yelena Yesha, Improving Word Similarity by Augmenting PMI with Estimates of Word Polysemy, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, **25:**6, pp 1307-1322, DOI 10.1109/TKDE.2012.30

22. Palanivel Andiappan Kodeswaran, Sethuram Balaji Kodeswaran, ***Anupam Joshi***, and Tim Finin, Enforcing Security in Semantics driven Policy based Networks, *Computer Standards and Interfaces*, **33**:1, pp 2-12, 2011.

23.   Wenjia Li, Jim Parker, and ***Anupam Joshi***, Security through Collaboration and Trust in MANETs, *J. Mobile Networks and Applications (MONET)*, DOI: 10.1007/s11036-010-0243-9

24.   ***Anupam Joshi***, Tim Finin, Lalana Kagal, Jim Parker and Anand Patwardhan, Security Policies and Trust in Ubiquitous Computing, *Philosophical Transactions A, The Royal Society of London*, **366**:1881, pp 3769-3780, October 2008.

25.   Boanerges Aleman-Meza, Meenakshi Nagarajan, Li Ding, Amit Sheth, Budak Arpinar, ***Anupam Joshi***, and Tim Finin, Semantic Analytics on Social Networks: Experiences in Addressing the Problem of Conflict of Interest Detection, *ACM Transactions on the Web,* **2**:1, 2008 (extended version of WWW05 paper).

26.   Amit Anil Nanavati, Rahul Singh, Dipanjan Chakraborty, Koustuv Dasgupta, Sougata Mukherjea, Gautam Das, Siva Gurumurthy, ***Anupam Joshi***, Analyzing the Structure and Evolution of Massive Telecom Graphs, *IEEE Trans. Knowl. Data Eng.*, 20(5): pp 703-718 (2008)

27.   Tim Finin, ***Anupam Joshi***, Pranam Kolari, Akshay Java, Anubhav Kale, and Amit Karandikar, The Information ecology of social media and online communities, *AI Magazine*, **29**:3, pp 77-92.

28.   Akshay Java, Sergei Nirneburg, Marjorie McShane, Timothy Finin, Jesse English and ***Anupam Joshi***, Using a Natural Language Understanding System to Generate Semantic Web Content, *International Journal on Semantic Web and Information Systems*, 3(4), 2007.

29.   Anand Patwardhan, Jim Parker, Michaela Iorga, ***Anupam Joshi***, Tom Karygianis, and Yelena Yesha, Threshold-based Intrusion Detection in Ad Hoc Networks and Secure AODV, *Ad Hoc Networks Journal (ADHOCNET),***6**:4, pp 578-599, 2008*.

30.   Sheetal Agarwal, ***Anupam Joshi***, Tim Finin, Yelena Yesha, and Tim Ganous, A Pervasive Computing System for the Operating Room of the Future, *ACM/Kluwer Journal on Mobile Networking and Applications*, **12**:2-3, pp 215-228, 2007.

31.   Lalana Kagal, Tim Finin, ***Anupam Joshi***, and Sol Greenspan, Security and Privacy Challenges in Open and Dynamic Environments, *IEEE Computer*, **39**:6, pp 89-91, June 2006

32.   Anand Patwardhan, Filip Perich, ***Anupam Joshi***, Tim Finin, and Yelena Yesha, Querying in Packs: Trustworthy Data Management in Ad Hoc Networks, *International Journal of Wireless Information Networks*, **13**:4, Oct 2006

33.   Dipanjan Chakraborty, ***Anupam Joshi***, and Yelena Yesha, Integrating service discovery with routing and session management for ad-hoc networks, *Ad Hoc Networks*, **4**:2, pp 204-224, March 2006.

34.   Dipanjan Chakraborty, ***Anupam Joshi***, Yelena Yesha, and Tim Finin, Toward Distributed Service Discovery in Pervasive Computing Environments, *IEEE Transactions on Mobile Computing*, **5**:2, pp 97-112 , February 2006.

35.   Avinash Shenoi, Yelena Yesha, Yaacov Yesha, Anupam Joshi, A Framework for Specification and Performance Evaluation of Service Discovery Protocols In Mobile Ad-Hoc Networks, *Ad Hoc Networks Journal (ADHOCNET),* **4**:1, 2006.

36.   Tim Finin, Li Ding, Lina Zhou, and ***Anupam Joshi***, Social Networking on the Semantic Web, The Learning Organization, **12**:5, pp 418-435, December 2005

37.   Li Ding, Tim Finin, ***Anupam Joshi***, Yun Peng, Rong Pan, and Pavan Reddivari, Search on the Semantic Web, IEEE Computer, **10**:38, pp 62-69, October 2005,

38.   Filip Perich, ***Anupam Joshi***, Yelena Yesha, and Tim Finin, Collaborative Joins in a Pervasive Computing Environment, VLDB Journal, **14**:2, pp 182-196, April 2005

39.   Li Ding, Tim Finin, and ***Anupam Joshi***, Analyzing Social Networks on the Semantic Web, IEEE Intelligent Systems, **20**:1, January 2005

40.   Dipanjan Chakraborty, ***Anupam Joshi***, Tim Finin, and Yelena Yesha, Service Composition for Mobile Environments, ACM/Kluwer Journal on Mobile Networking and Applications, Special Issue on Mobile Services, **10**:4, January 2005

41. Kamdar, T., and ***Joshi, Anupam***, Using Incrimental Weblog Mining to Create Adaptive Web Servers, in *Intl. Journal of Digital Libraries,* **5**:2, pp 133-150, 2005.

42. Li Ding, Tim Finin and ***Anupam Joshi***, Analyzing Social Networks on the Semantic Web, IEEE Intelligent Systems (Trends and Controversies), 2004 (invited paper).

43. Harry Chen, Tim Finin, ***Anupam Joshi***, Filip Perich, Dipanjan Chakraborty, and Lalana Kagal, Intelligent Agents Meet the Semantic Web in Smart Spaces, *IEEE Internet Computing*, **8**:6, November/December, 2004 (Invited Paper)

44. Pranam Kolari and ***Anupam Joshi*** , Web Mining - Research and Practice, *IEEE Computing in Science and Engineering - Web Engineering Special Issue*, **6**:4, July/August 2004, pp 49-53.

45. Filip Perich, ***Anupam Joshi***, Tim Finin, and Yelena Yesha, On Data Management in Pervasive Computing Environments, *IEEE Transactions on Knowledge and Data Engineering*, **16**(5), pp 621-634, May 2004.

46. Harry Chen, Tim Finin, ***Anupam Joshi***, An Ontology for Context-Aware Pervasive Computing Environments, *Knowledge Engineering Review*, **18**:3, pp197-207, 2003.

47. Jeffrey L Undercoffer, ***Anupam Joshi*** , Tim Finin, John Pinkston, Using DAML+OIL to Classify Intrusive Behaviors, Knowledge Engineering Review, **18**:3, pp 221-241, 2003.

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5. Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, ***Anupam Joshi***, Timothy Finin, An Approach to Dynamic Service Management in Pervasive Computing, *Grace Hopper Celebration of Women in Computing*, 2002.

6. Avancha, S., Chakraborty, D., Chen, H., Kagal, L., Perich, F., Finin, T., Joshi, Anupam, Issues in Data Management for Pervasive Environments , NSF Workshop on Context Aware Mobile Database management (CAMM), January 24-25, 2002

7. Lalana Kagal, Filip Perich, Harry Chen, Sovrin Tolia, Youyoung Zou, Tim Finin, Anupam Joshi, Yun Peng, Richard Cost, Charles Nicholas, Agents Making Sense of the Semantic Web, First GSFC/JPL Workshop on Radical Agent Concepts (WRAC), January 2002.

8. Harry Chen, Sovrin Tolia, Craig Sayers, Tim Finin, and Anupam Joshi, Creating Context-Aware Software Agents, First GSFC/JPL Workshop on Radical Agent Concepts, January, 2002.

9. Dipanjan Chakraborty, Filip Perich, Sasikanth Avancha, and Anupam Joshi, An Agent Discovery Architecture using Ronin and DReggie, First GSFC/JPL Workshop on Radical Agent Concepts, January, 2002.

10. Sasikanth Avancha, Dipanjan Chakraborty, Dhiral Gada, Tapan Kamdar, and Anupam Joshi, Fast and effective wireless handoff scheme using forwarding pointers and hierarchical foreign agents, SPIE International Symposium on Convergence of IT and Communications , August 20-24, 2001 (Invited Submission).

11. Joshi, Anupam and L. Xu, A Jini based Framework for a Component Recommender System, Proc. 16th IMACS world Congress , Special Session on PSEs for Scientific Computing (invited submission)

12. Drashansky, T., Joshi, Anupam, Rice, J.R., "Multidisciplinary Problem Solving using Agents in a Cluster Environment", Cluster Computing Conference 97 (On-Line proceedings at http://www.mathcs.emory.edu/~ccc97/sessions.html).

13. Drashansky, T., Joshi, Anupam, Rice, J. R., Houstis, E. N., Weerawarana, W., ``A MultiAgent Environment for MPSE's'', (CD-ROM) Proc. 8th SIAM Conf. Parallel Processing for Scientific Computing, 1997 .

14. Ramakrishnan, N., Joshi, Anupam, Houstis, E.N., Rice, J.R. and Weerawarana, S., ``Intelligent Networked Scientific Computing'', Proc. 15th IMACS World Congress, 1997.

15. Drashansky, T., Joshi, Anupam, Rice, J. R., Houstis, E. N., Weerawarana, S., ``MultiAgent Techniques for Simulation of Complex Scientific Systems'', Proc. 15th IMACS World Congress, 1997.

16. Graham, S., Pizlo, Z. and Joshi, Anupam, ``Problem Solving in Human Beings and Computers'', presented at Annual Math. Psych. Meeting , Irvine, 1995.

17. Guerra, C, Houstis, E.N. and Joshi, Anupam , ``Reconstruction of rectangles from projections: an application to surface mounted device placement'', SPIE Intelligent Robots and Computer Vision XIII, 1994, pp. 145-150.

Non-Peer-Reviewed Works.

1. Pranam Kolari, Akshay Java, Tim Finin, James Mayfield, ***Anupam Joshi***, and Justin Martineau*, Blog Track Open Task: Spam Blog Classification, TREC 2006 Blog Track Notebook*, November 2006

2. Tim Finin, Li Ding and ***Anupam Joshi***, Information Integration and the Semantic Web, *Notes from the Information Integration Workshop*, October 2006,

3. Joshi, Anupam, Weerasinghe, R., Mcdemott, S., Tan, B., Bernhardt, G. and Weerawarana, S., Mowser: Mobile Platforms and Web Browsers', Bulletin of the TCOS, IEEE Computer Society, 1996

4. Houstis, E. and Joshi, Anupam, SciencePad: An Environment for the Electronic Classroom and Laboratory, presented at Invited Minisymposium on Electronic Textbooks, Classrooms and Laboratories for Education in Computational Sciences, SIAM Annual meeting 1995

Students:
I have served on the committee of several students at both the MS and PhD level. I indicate below only those students whose committees I chaired. I've also been the external examiner for PhD theses from Monash University (Australia), IIT-Delhi (India), IISc (India) and IIT-Guwahati (India).

Ph.D.

Sudip Mittal, May 2019, Chair

Sandeep Narayanan, May 2019, Chair
Prajit Das, Aug 2017, Chair
David Mountain, May 2017, Chair (part time student)
Clare Grasso, May 2017, Chair
M. Lisa Matthews, May 2017, Chair (SFS Fellowship)
Randy Schauer, PhD Summer 2014, Chair (part time student)
Wenjia Li, Aug 2011, Chair.
Palanivel Kodeswaran, May 2011, Chair
Sethuram Balaji Kodeswaran, Aug 2008, Chair (part time student)
Jim Parker, Dec 2008, Chair (part time student)
Anand Patwardhan, May 2007, Chair
Sasikanth Avancha, Aug 2005, Chair (MS, December 2001)
Filip Perich, May 2004, Chair
Dipanjan Chakraborty, June 2004, Chair

Vladimir Korolev,   PhD Expected 2021, Chair (part time student)
Aritran Piplai,   PhD Expected 2023, Chair
Sai Sree Laya Chukkapalli PhD Expected 2023, Chair
Oyesh Mann Singh   PhD Exptected 2023, Chair
Anantaa Kotal   PhD Expected 2024, Chair

Master's

Sandesh Timilsina, May 2020, Chair
Sowmya Ramapatruni, May 2019, Chair
Aditya Pingle, May 2019, Chair
Nitika Khurana, May 2018, Chair
Vishal Rathod, Summer 2018, Chair
Alejandra Diaz, Summer 2018, Co-Chair
Lauren Mazolli, December 2016, Chair
Piyush Nimbalkar, Summer 2015, Chair
Primal Pappachan, Summer 2014, Chair
Morgan Madeira, Summer 2014, Chair
Satyajit Padalkar, Summer 2014, Chair
Sandhya Krishnan, Summer 2013, Chair
Deepal Shah, Summer 2013, Chair
Puneet Sharma, Summer 2013, Chair
Dibyajyoti Ghosh, Oct 2012, Chair
Sumit More, May 2012, Chair
Pramod Jagtap, Summer 2011, Chair
Audumbar Chormale, Summer 2009, Chair
Kishor Datar, Summer 2009, Chair
Sheetal Gupta, Summer 2008, Chair
Onkar Valawalkar, Summer 2007, Chair
Amit Karandikar, May 2007, Chair
Sandor Dornbush, Aug 2007, Chair
Nimish Vartak, Summer 2006, Chair
Sheetal Agarwal, Summer 2006, Chair
Sachee Tripathi, Summer 2005, Chair

Abhishek Gujar, December 2005, Chair
G.K. Shashidhara, Summer 2005, Chair
Vladimir Korolev, Aug 2004, Chair
Pranam Kolari, May 2004, Chair
Amit Choudhri, September 2003, Chair
Avinash Shenoi, September 2003, Chair
Hiren Shah, Aug 2003, Chair
Vipul Hingne,May 2003, Chair
Kejian Hu, August 2002, Chair
Bhagyalakshmi Bethala, August 2002, Chair
Sovrin Tolia, August 2002, Chair
Dhiraj Bhandari, May 2002, Chair
Purnima Chandrashekharan, Aug 2001, Chair
Tapan Kamdar, May 2001, Chair
Chaitanya Pullela, August 2000, Chair
Liang Xu, May 2000, Chair
Scott Jiang, May 2000, Chair

The Following Students graduated from the University of Missouri
Vineeth Subramanium, Summer 1999, Chair
Sunil Tripathy, Feb 1999, Chair
Sanjay Mellacheruvu, Feb 1999, Chair
Harini Bharadwaj, Summer 1998, Chair
Scott Drummond, Summer 1998, Chair
Pramod Karnam, Summer 1997, Chair

Honors Received:

2018	Test of Time Award for 2008 Paper, EDBT conference
2018	10 Year Best Paper Award for 2008 paper, ACM SACMAT
2014	IEEE Fellow
1999-2003	NSF CAREER Award
2003 - date	IBM Toronto Center for Advanced Studies Fellow
1997-1999,	IBM Faculty Award / UPP
2002-2003,	IBM Faculty Award / UPP
2006- 2007	IBM Faculty Award / UPP
1994-1996	NSF Research Associate Award.
	Member, Upsillon Pi Epsilon.
	Member, IEEE, IEEE-CS, ACM. Elected Senior Member of IEEE in 2003.
1984	Prefect,Academics, Modern School (India).
1983	National Talent Scholarship (India)
1980	Junior Science Talent Scholarship (India)

Selected Professional services

I have served on the PC for many conferences, some of which are outlined below. In addition, I routinely review papers for several prominent journals in my field. Recent examples include Trans. Knowledge and Data Engineering, IEEE Trans. Computers, IEEE Trans Mobile Computing, IEEE Computer, IEEE Internet Computing, IEEE Trans. SMC, IEEE Trans. Neural Networks, Comm. ACM, VLDB Journal, ACM/Kluwer MONET, J. Distr. and

Parallel Databases. I have also served as a panelist for NSF on several occasions for different programs such as IIS, EIA and DUE. Due to confidentiality reasons, exact dates and panels cannot be revealed.

2018	IEEE CS Fellows Evaluation Committee	
2017	IEEE CS Fellows Evaluation Committee	
2015	IEEE CS Fellows Evaluation Committee	
2020 – date	Editorial Board Member, Communications of the ACM	
2006 – date	Editorial Board Member International Journal on Semantic Web and Information Systems	
1999 – 2003	Associate Editor	IEEE Transactions on Fuzzy Systems
2003	Guest Editor	VLDB Journal Special issue on the Semantic Web (with Y. Yesha and V. Atluri)
2002	Guest Editor Special	Journal of Very High Speed Networks Issue on Multimedia Networks (with P. Mundur)
2001	Guest Editor	Journal of Very High Speed Networks Special Issue on Broadband Wireless Networks.(with A. Krishna)
Jun 1999	Guest Editor	Journal of Distributed and Parallel Databases Special Issue on Mobile Data Management and Applications (with J. Jing)
Mar 1999	Guest Editor	CACM Theme section on MultiAgent systems on the Network (with M. Singh)
Oct 1998	Guest Editor	IEEE Personal Communications Magazine Special Issue on Mobile Systems and the Web (with A. Krishna)
2021	General Chair	ACM CODASPY
2005 -	Steering Committee	IEEE MDM
2018	General Chair	IEEE MDM
2015	General Chair	IEEE ISI
2012	General Chair	IEEE MDM
2010	PC Chair	IEEE SRDS
2008	Program Committee	IEEE MDM
2007	Program Committee	ISWC/ASWC
2007	Program Committee	Mobiquitous
2007	Program Committee	AAMAS
2007	Program Committee	AAAI07/AIW
2006	Program Committee	IEEE MDM
2006	Program Committee	IEEE PERCOM
2006	Program Committee	ISWC
2006	Program Committee	Mobiquitous
2006	Program Committee	AAMAS
2006	Program Committee	AAAI06/AIW
2006	Program Committee	WWW MTW Workshop
2006	Program Committee	ICDE SeNS Workshop
2006	Program Committee	ACM CIKM06
2005	Program Committee	IEEE SECON
2005	Program Committee	ISWC
2005	PC Chair	Mobiquitous05
2005	Organizing Committee Chair	ACM SIGMOD

Year	Role	Venue
2005	Program Committee	IEEE ICDE
2005	Program Committee	IEEE PERCOM
2005	Program Committee	ISWC SWPW Workshop
2004	Local Arrangements Chair	ACM SenSys
2004	Program Committee	IEEE SECON
2004	Panels Co-Chair	Mobiquitous04
2004	Co-General Chair	IEEE MDM
2004	Program Committee	ISWC
2004	Program Committee	IEEE ICDE
2004	Program Committee	IEEE ICDCS
2003	Program Committee	IEEE PERCOM
2003	Program Committee	IEEE MDM
2003	Program Committee	IEEE ICDE
2003	Program Committee	ISWC
2002	Local Arrangements Chair	ACM CIKM
2002	Program Committee	AAMAS Workshop on Ubiquitous Agents on embedded, wearable, and mobile devices,
2002	Program Committee	ACM Mobicom Workshop on Mobile Commerce
2002	Program Committee	ACM SIGMOD Conference
2002	Program Committee	IEEE ICDCS
2002	Co-Organizer	NSF Workshop on Context Aware Mobile Data Management,.
2001	Program Committee	ATAL
2001	Program Committee	IPCCC
2001	Program Co-Chair	ACM Mobicom Workshop on Mobile Commerce
2001	Program Committee	3rd IEEE Intl. Conf. Mobile and Wireless Communication Networks
2001	Program Committee	Intl. Conf. Parallel and Distributed Systems
2001	Program Committee	2nd International Workshop on Wireless Networks and Mobile Computing (held with IEEE Intl Conf. Distributed Computing Systems),
2001	Program Committee Member	2nd International Conference on Mobile Data Management
2000	Local Arrangements CoChair	ACM CIKM
2000	Tutorial on Mobile E-Commerce	2nd ACM SigECOM Conference EC00.
2000	Tutorial: Mobile Data Management	ACM CIKM.
2000	Program Co-Chair	Tenth IEEE Workshop on Research Issues in Data Engineering (RIDE2000)
2000	Program Committee Member	IPCCC.
2000	Co-Organizer	HICSS33 Minitrack on Multi-Agent systems, Internet, & Applications.
1999	Program Committee	Electronic Commerce and Web (EC-WEB) Conference

1999	Co-Organizer, Panel on Mobility Electronic,	First ACM Conference of
	and Electronic Commerce,	Commerce
1999	Program Committee Member	Fifth Annual ACM/IEEE MobiCom
1999	Program Committee Member	WIDM Workshop, ACM CIKM.
1998	Program Committee Member	Fourth Annual ACM/IEEE International Conference on Mobile
		Computing and Networking
1998	Program Committee Member	AAAI 98 Workshop on Software Tools for Developing Agents.
1998	Moderator & Organizer	Panel on Security in Mobile Systems, ACM/IEEE Mobicom '98
1998	Presented a tutorial on at Computational Intelligence & Data Mining	IEEE WCCI
1998	Session chair (mobile databases session)	IEEE ICDE'98
1997	Organizer, Panel Cooperative MultiAgent systems for the Web	CoopIS'97.
1996	Presented a tutorial on Mobile Computing and Web	ACM Mobicom '96
1996	Member Program Committee	IASTED/ISMM Intl. Conf. Intelligent
		Information Management Systems
1996	Member Program Committee	IEEE Intl. Conf. Tools wih AI, 1996.
1995	Co-Organizer and panelist, minisymposium on Electronic Textbooks, Classrooms and Labs for Education in Computational Sciences	SIAM Annual Meeting 1995
1995	Tutorials Chair	IEEE First International Conference on Software Testing, Reliability and
		Quality Assurance
1995	Panelist, AI Tools in Human-Computer Interaction: Perspectives, Issues, and Directions	IEEE Intl. Conf. Tools with AI.

University Service

Aug 2015 – date	Chair	CSEE Department
Oct 2012 – date	Director	Cyberscholars Program
Oct 2012 - date	Director	UMBC Center for Cybersecurity
Aug 2017 - date	Member	Research Park Advisor Committee
Jan 2017 - April 2017	Member	Dean CoEIT Search Committee
Aug 2013 – Feb 2014	Chair	Dean CoEIT Search Committee
Oct 2012 - June 2013	Chair	Vice President for Research Search Committee
Aug 2011 – Aug 2012	Chair	CMSC Faculty Search Committee

Aug 2010 – Aug 2012	GPD	CMSC Program
Aug 2010 – date	Member	CSEE Executive Committee
Aug 2010-Oct 2010	Interim Chair	CSEE Department
March 07 – Summer 07	Member	Faculty Senate Executive Committee
Aug 06 – Aug 08	Member	University Research Council
Sep 2006 – Aug 2008	Chair	CS Promotion and Tenure Committee
Fall 04	Member	Search Committee for the Assistant/Associate Vice Provost for Research Administration
Aug 2002 - date	Member	UMBC Computer Policy Committee
Sep 2004 – date	Chair	UMBC Computer Policy Committee
April 2004 – date	Member	Internal Advisory board for Alex Brown Center.
Aug 1998 - date	Member	CS Graduate Committee
Aug 1999 - date	Member	CS Graduate Admissions Committee
Aug 1999 - 2001	Chair	CS Graduate Admissions Committee
Aug 1999 - May 2002	Member	CS Faculty Search Committee
Aug 2003 - date	Chair	CS Equipment Committee
Aug 1998 - date	Member	CS Equipment Committee

(at Univ of Missouri)

Jan 1997- Aug98	Coordinator	Internet Information Services
Jan 1997 - Aug98	Member	Library Committee
Aug 1997 - Aug 98	Member	Graduate Committee
Jan 1997 - Aug1997	Member	Course & Curriculum Committee
1997	Member	Faculty Search Committee