

Curriculum Vitae
Of
Sharma Chakravarthy

Sharma Chakravarthy

Professor
Computer Science and Engineering Department
(**ACM Distinguished Scientist and Senior IEEE Member**)

and

Founder:
Information Technology Laboratory (IT Lab), and
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Personal	U. S. Citizen
Education	
1985	<i>Ph.D., Computer Science, University of Maryland, College Park</i> Thesis: <i>Semantic Query Optimization in Deductive Databases</i> Advisor: Prof. Jack Minker
1981	<i>M.S., Computer Science, University of Maryland, College Park</i>
1975	<i>Technical Master's Degree (M.Tech), Communications, Control, and Computer Science, Indian Institute of Technology, Bombay, India</i>
1973	<i>B.E., Electrical Technology, Indian Institute of Science, Bangalore, India</i>
1970	<i>B.Sc., Bachelor's Degree in Science, Bangalore University,</i>

	India
Research Interests	Dr. Chakravarthy is Primarily interested in research leading to the development of enabling technologies for Big Data Analytics & Science - specifically aimed at distilling actionable knowledge from large amounts of disparate data. Consequently, his research focus is on: approaches for Big data analytics & science, scalability of mining (text, graph, association rules) using distributed and parallel frameworks (e.g., Map/reduce, Spark), analysis of complex data using multiplexes (aka multilayered networks), social network analysis, ranking in web data repositories, information integration, stream data processing in various ways (e.g., sensor data, video data), complex event processing, mining/knowledge discovery (conventional, graph, and text), web/cyber technologies, data warehouses, and information privacy and security. Distributed computing and the use of parallel processing techniques are also of interest.
Courses Taught	Data mining, big data analytics using map/reduce paradigm, Introduction to Databases (both undergraduate and graduate); Architecture and Implementation of Databases (both undergraduate and graduate); Information processing (for MIS undergraduates); Distributed and parallel databases; Database theory, Advanced database topics including: data warehouses, Complex event processing, Stream processing, Association rule mining; Data Structures; Object-oriented Design and Exception handling using Java, Logic programming; Logic and Databases, Closed and Open World Assumptions in Logic and databases; Several graduate and advanced graduate seminar courses on diverse topics in information management
Experience	
1/2000 - present	<p>The University of Texas at Arlington, Arlington, Texas Computer Science and Engineering Department Professor</p> <ul style="list-style-type: none"> • Developed projects to use blockchain concepts for understanding distributed processing, peer to peer networks, distributed consensus algorithms, and cryptographic use for ledger management. • • Developed projects to use Map/Reduce approach for understanding distributed processing and scalability • Developed a new course on graph mining, cloud computing using map/reduce paradigm • Developed a new course on stream and complex event processing that is being offered as a graduate course at UTA

	<ul style="list-style-type: none"> • Spearheaded Information Assurance and Security concentration for the graduate program at UTA • Established a Distributed and parallel Computing Cluster (DPCC@UTA) in Fall 2002 to serve as a catalyst for inter-departmental and inter-institutional collaborative research in the Metroplex. A 193 processor cluster and 72 TB of storage facility are operational as of Fall 2003. Three 8 node SMP systems each with 32Gbytes of memory are operational from Fall 2004. • Established the Information Technology Laboratory (ITLab@cse.uta) in Spring 2000 to showcase the Research and development activity of the database group at UTA. Working on establishing interactions with the local industry for projects and technology transfer. • Developed an Advanced Topics in Database Systems course covering Active Technology, Data warehousing and Data mining. Established hands-on projects in the above topics. • Developed a graduate database course (Database Systems II) with an emphasis on systems and implementation aspects of database management systems.
<p>8/89-12/2000</p>	<p>University of Florida, Gainesville, Florida Computer and Information Science and Engineering Department Associate Professor</p> <ul style="list-style-type: none"> • Established interdisciplinary collaboration with: Profs. Drummond, Maria, and Luttge (College of medicine and UF Brain Institute), Prof. A. Kolaskar BioInformatics and CDAC Poona, India), Profs. S. TufECKi and S. Yeralan (Industrial Systems Engineering), Prof. J. Alexander (Department of Urban and Regional Planning). • Introduced the graduate course CIS 6124(Database theory) for the first time at UF in Spring 1990. Offered once a year since then. • Introduced the undergraduate course CGS 4545 (Database design and applications for non-majors) for the first time at UF in Spring 1992. Offered once a year since then. • Revised the contents of the graduate course CIS 6125 (Distributed Database Systems) and brought its coverage up-to-date in Spring 1991. An implementation project was designed for the course. Offered once a year. • Taught CIS 6124 on FEEDS (Florida Engineering Education Delivery System) in Spring 1990 and CIS 6125 on NTU (National Technical University) in Spring 1993. • Upgraded the database center lab using \$20,000 National

	<p>Science Foundation equipment grant obtained in 1990.</p> <ul style="list-style-type: none"> • Introduced the graduate course CIS 6122 (Knowledge Base Systems) in 1993. Has been approved by the CIS Department. • Introduced CIS 6124 and CIS 6125 into the National Technical University's list of courses offered. • Departmental liaison with the College of Business Administration. • Funding sources: NSF, Texas Instruments, Raytheon TI Systems, US West, Sofrevia, Navy, Air Force, ONR, and NRL. • Established two University level cooperative agreements with: i) University of Poona, India and ii) University of Skovde, Sweden.
9/88-8/89	<p>Xerox Corporation Advanced Information Technology Group, Cambridge, MA Member of Technical Staff</p>
HiPAC	<p><u>Project Manager</u> (From 1/89 to 8/89). HiPAC is a research project on active, time-constrained data management. It incorporates rules as first-class objects, a flexible execution model for evaluating rules with respect to transactions, and techniques for evaluating rules efficiently. Developed architecture for the rule management and evaluation subsystem that manages rules efficiently and optimizes their evaluation. Also, developed several techniques for evaluating situation-action rules efficiently. Several proof-of-principle systems were implemented to demonstrate research results obtained in HiPAC.</p>
8/85-8/88	<p>Computer Corporation of America, Cambridge, MA Advanced Information Technology Division Computer Scientist</p> <p>Acted as a technical marketing liaison with various federal sponsors, such as RADC, DARPA, and AFOSR. Familiar with contracts and proposal negotiations with federal agencies.</p>
VSDS	<p><u>Project Manager</u>. The short-term objective of the VSDS (Verifiable Secure Distributed Systems) project was to develop a workbench to facilitate the verification of transactions in secure databases. Developed a uniform framework for integrating security and integrity constraints to facilitate their enforcement and verification.</p>
SAM	<p><u>Manager</u>. Designed, and implemented an active, object oriented DBMS incorporating active objects for expressing triggers, alerter, and situation action rules on Symbolics</p>

	using Common LISP and Flavors. Polling and active condition monitoring were compared and their performance analyzed.
PROBE	<u>Investigator</u> . PROBE is an object-oriented, extensible DBMS aimed at non-traditional applications. It incorporates temporal and spatial data types as well as recursion as an integral part of the system. Participated in the research on recursion and the breadboard implementation of PROBE. Designed and implemented several traversal recursion algorithms for the PROBE breadboard.
PV	<u>Investigator</u> . Major contributor to the Program Visualization (PV) project aimed at developing an object-oriented information model for supporting software engineering methodologies and structured documents including sophisticated graphics interface.
Miscellany	Investigated the suitability of multiprocessor architectures for high-performance DBMSs. Investigated query processing techniques for complex objects. Investigated real-time and time-constrained processing issues for database management systems. Played a significant role in developing seven proposals over a period of four years.
1/81-7/85	University of Maryland, College Park Computer Science Department Research Assistant, Instructor Conducted research in the areas of databases, logic databases, parallel processing, and expert systems. Participated in the design and implementation of the PRISM system on a network of 256 Z80A processors, and in the design of DAVID (Distributed Access View Integrated Database).
1/79-12/80	University of Maryland, College Park Computer Science Department Graduate Teaching Assistant Taught several Computer Science courses including Database Design, Data Structures and File Processing.
6/75-12/78	Tata Institute of Fundamental Research (TIFR) Computer Science Group Scientific Officer Pursued research in the areas of picture processing and pattern recognition; Designed and developed a general purpose graphics systems (SIGN).

<p>Honors</p>	<ul style="list-style-type: none"> • Fulbright Specialist 2019-2022) • ACM Distinguished Speaker 2019-- • ACM Distinguished Scientist, 2011 • IEEE Senior Member, 2011 • On the Advisory Board of Hi-Tech, Institute of Engineering & Technology, India 2006 - • On the Advisory Board of EnigmaTec, London, UK, 2002-2010 • Consultant to MCC 1998-2000 • Consultant to RTI Inc. 1999-2000. • Listed in Who's Who in Sciences Higher Education, 2004 • Listed in Who's Who among Asian Americans, 1994 • Listed in Who's Who among American Teachers, 1995 • Listed in Who's Who in the South and Southwest, 1995
<p>Awards</p>	<ul style="list-style-type: none"> • Nominated for "UTA Academy of Distinguished Scholars", 2013, University level • Excellence in Research award, 2006, College level • Research Excellence award, 2005. Department level • Outstanding research achievement, 2003. University level • Senior faculty research award, 2002. Department level • Awarded National merit Scholarship for pursuing advanced degree, 1979 • Awarded Commonwealth Scholarship for pursuing advanced degree, 1979 • Second prize for term paper presentation, B.E., 1973 • Represented the college in the National Science Talent Contest, 1970 • Second rank in statewide Eleventh standard Examination, 1967
<p>Editorship</p>	<ul style="list-style-type: none"> • Associate Editor, IEEE Transactions on Data and Knowledge Engineering (TKDE), 2006 - 2011 • Associate Editor, International Generation on Next-Generation Computing (IJNCC), 2011 - • Program Committee co-Chair, DaWaK 2017 in Linz, Austria • Program Committee co-Chair, DaWaK 2017 in Lyon, France • General Co-Chair for the 2013 International Conference on Distributed Event-Based Systems (DEBS 2013) to be held at UT Arlington from June 29th through July 3rd, 2013
<p>Visiting Positions/Visits</p>	
<p>Summer 2018</p>	<p>Visited Umea University, Umea, Sweden for 10 days on a research collaboration</p>
<p>Summer 2017</p>	<p>Faculty Fellow at the Air Force Research Laboratory, Rome NY for 10 weeks (Summer Faculty Fellowship Program)</p>

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Summer 2014	Faculty Fellow at the Air Force Research Laboratory, Rome NY for 12 weeks (Summer Faculty Fellowship Program)
Summer 2013	Faculty Fellow at the Air Force Research Laboratory, Rome NY for 12 weeks (Summer Faculty Fellowship Program)
Sep-Dec 2004	Visited IBM India research Lab (as part of sabbatical) for 4 months
August 2004	Visited IIT Bombay for 3 days
July 2004	Visited Persistent Systems Private Limited (PSPL) for 1 month as a Technology consultant.
Jul 2000	Visiting Collaborator at NCST, Bangalore, India
Jun/Jul 00	Visiting Professor at the University of Skovde, Sweden.
Jun/Jul 99	Visiting Professor at the University of Skovde, Sweden.
Mar 1997	Visiting Fellow at JAIST (Japan Advanced Institute of Science and Technology, Hokuriku, Japan.
May/Aug 98	Visiting Professor at the University of Skovde, Sweden.
May/Aug 97	Visiting Professor at the University of Skovde, Sweden.
May/Aug 96	Visiting Professor at the University of Skovde, Sweden.
Jun/Jul 95	Visiting Scientist at the Institut National de Recherche en Informatique et Automatique (INRIA), Paris, France.
May 1995	Visiting Professor at the University of Skovde, Sweden.

Grant Activity¹ (Total Funding exceeds 13.8 Million USD)

<i>Project</i>	<i>Agency</i>	<i>Amt in \$</i>	<i>Role</i>	<i>From</i>	<i>To</i>
OAC: Small: Collaborative Research: PANDA: Parallel Algorithms for Multilayer Networks: A Decoupling-based Approach	NSF (Pending)	500K	PI	10/1/2019	9/30/2022
Bringing Emergency Communications into the Twenty-First Century: Implementation and Evaluation of a Mobile Technology for Police, Fire, and Emergency Medical Services	DOJ (Pending)	350K	PI	1/2019	12/2022
VAJRA - Collaborative project with India	DST India Not	NA	Collaborator	2/2018	1/2021

¹ This table does not include grants obtained by Chakravarthy in previous positions held at CCA and XAIT as researcher, PI, and Project Manager totaling more than \$6 Million.

	funded				
STINT: Multilayer Networks Approach to Community Detection in Heterogeneous Personal Data	Collaborative project with Sweden (funded)	150,000 SEK	Collaborator	2/2018	12/18
A Novel Approach to Video Content Analysis: Adapting Stream and Event Processing Paradigm	AFOSR (not funded)	600K	PI	9/2018	8/2021
III: Small: Collaborative Research: NetFlex : A Composition-Based Approach for Flexible Analysis of Multilayer Networks	NSF (not funded)	260K	PI	9/2018	8/2021
Analysis of Multi-Modal, Multi-Feature, Dynamic Data Using Multilayer Networks	AFOSR (not funded)	530K	PI	9/2017	8/2020
III: Small: Augmenting Video Content Analysis Using Stream and Event Processing	NSF (not funded)	500K	Pi	9/2018	8/201
Doctoral Workshop and Student travel support for ACM Distributed Event-Based Systems (DEBS) 2013 Conference	NSF (funded)	20K	PI	6/2013	5/2014
A Distributed Middleware-Based Architecture for Fault-Tolerant Computing Over Distributed Repositories	Air Force Research Lab (funded)	267,081	PI	8/09	7/10
<i>A Distributed Middleware-Based Architecture for Fault-Tolerant Computing Over Distributed Repositories</i>	Air Force Research Lab (funded)	150,930	PI	7/10	1/11
MRI: Acquisition of a	NSF	526,567	Co-PI	6/09	5/12

Genome Sequencer FLX for High Throughput Sequencing and Genotyping in Genomics Research and Student Training	(funded)				
MavEstream: Synergistic Integration of Stream and Event processing	NSF	274,999 + 12,000 for REU	PI	2/2006	1/2010
Graph-Based Structural Pattern Learning, U.S. Air Force Evidence Assessment, Grouping, Linking and Evaluation (EAGLE) Program	Air Force (funded)	377,516	Researcher	1/2004	12/2005
Southwest Tier 2 CyberInfrastructure for ATLAS Agency:NSF Duration: 60 months	NSF (funded)	Approx. 1M	Senior Researcher	9/2005	8/2010
Acquisition of Instrumentation for Engineering Research in Advanced Security Detection Systems, NSF Major Research Instrumentation (MRI) Program	NSF (funded)	357,143	Senior Personnel	9/2004	8/2007
ITR Collaborative Research: Pervasively Secure Infrastructure (PSI): Integrating Smart sensing, data mining, pervasive networking and community computing	NSF (funded)	1,600,000	Researcher	9/2003	8/2008
Facilitating Intelligent Sharing of Information for Decision Making over Distributed, Heterogeneous, Network-Centric Environments	NAVY/AF (funded)	59,999	PI	6/2002	6/2003
MRI 2002	NSF (EIA)	1,357,143	PI	9/2002	8/2005
MavHome	NSF	1,160,000	Co-PI	9/2001	8/2004
Graph-based Data Mining	NSF	442,487	Co-PI	9/2001	8/2004

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Selective Just-in-time information propagation in large network-centric environments	NSF	240,000	PI	9/2001	9/2005
IDM 2001 workshop	NSF	180,000	PI	3/2001	2/2002
Services for Intelligent sharing of information over distributed heterogeneous network-centric environments	NAVY/AF	50,000	PI	6/2001	3/2002
Knowledge Integration for Intelligent Extraction in Supporting Network Centric C4I	NAVY/AF	65,000	PI	6/2000	2/2001
Knowledge Integration	NAVY/Air Force	65,000	PI	6/2000	3/2001
Java-based Active Capability	NAVY/Air Force	60,000	PI	9/1998	8/1999
DBMS Software	Oracle	2,300,000	PI	4/1998	3/2001
Distributed Reactive Agents	RTIS	100,000	PI	5/1998	4/1999
Genoa - CrisisBrief	DARPA	12,000	PI	1/1997	4/1998
Agent Architecture for Active DB	NAVY/Air Force	75,000	PI	5/1997	5/1998
Active functionality into JFACC	DARPA/BBN	500,000	PI	1/1997	12/2000
Active DB Collaboration	Air Force	95,000	PI	8/1996	3/1997
Advanced Transactions	NSF	210,000	PI	5/1996	4/1999
Active DB Collaboration	Air Force	85,000	PI	8/1995	8/1996
OO GIS Database	NRL	325,082	Researcher	10/1994	10/1995
Active Databases	Navy	55,000	PI	7/1994	6/1995
Constraint Management II	Navy	50,000	PI	7/1993	5/1994
Cooperation among applications	Sofrevia	10,000	PI	2/1993	8/1994
CISE Infrastructure Grant	NSF	1,500,000	Researcher	3/1992	2/1998
Constraint Management I	Navy	32,999	PI	3/1992	6/1993
Federated information systems	US West	98,305	PI	9/1990	5/1992
Query optimization in OODBMS	TI	20,000	PI	1/1991	6/1991

Distributed active databases	NSF	66,441	PI	8/1990	7/1993
Active databases	FHTIC	40,000	PI	1/1991	12/1992
Active databases	FHTIC	30,000	PI	1/1990	1/1992
Abbreviations Used					
NSF	National Science Foundation				
FHTIC	Florida High technology Industry Council				
Sofrevia	An Aerospace Company in Paris, France				
Navy	SPAWAR, San Diego, CA				
AF	Air Force, USA (Rome Laboratories)				
TI	Texas Instruments, Dallas				
US West	Telecommunications Company, Denver, Colorado.				
NRL	Naval Research Laboratory				
DARPA	Defense Advanced Research Projects Agency				
BBN	Bolt, Beranek, and Newmann, Inc. (Is now part of GTE)				
RTIS	Raytheon TI Systems				

Publications Summary:

Authored Book: 1 (On Stream and Event Processing)
Edited book/proceedings 4 (DaWaK 2017, BDA 2017, DEBS 2013, VLDB 2000)
Book Chapters: 17
Journal Papers: 37
Conference papers: 145

Authored Books, Book Chapters, Edited Proceedings

19	Chakravarthy, S., Reddy, P. K., Sureka, A., Chakravarthy, S., Bhalla, S. (Eds.). (2017). Big Data Analytics - 5th International Conference, BDA 2017, Hyderabad, India, December 12-15, 2017, Proceedings (vol. 10721). Springer. https://doi.org/10.1007/978-3-319-72413-3 (Edited Proceedings)
18	Ladjel Bellatreche, Sharma Chakravarthy (Eds.): Big Data Analytics and Knowledge Discovery - 19th International Conference, DaWaK 2017, Lyon, France, August 28-31, 2017, Proceedings. Lecture Notes in Computer Science 10440, Springer 2017, ISBN 978-3-319-64282-6 (Edited Proceedings)
17	S. Kaur, V. Bhatnagar, and S. Chakravarthy, "Stream Clustering Algorithms: A Primer", in Big Data Complex Systems: Challenges and Opportunities, Editors: Hassanien, A.-E., Azar, A.T., Snasel, V., Kacprzyk, J., Abawajy, J.H., 2015, pp. 105-145, ISBN 978-3-319-11056-1
16	S. Chakravarthy, S. D. Urban, P. Pietzuch, and E. Rundensteiner, "The 7 th ACM International Conference on Distributed Event-Based Systems, DEBS '13, Arlington, TX (Proceedings)
15	"Sensor Technology and Data Stream Management", Sharma Chakravarthy, Raman Adaikkalavan, Xing Xie, and Indrakshi Ray, To appear in Pervasive Information Management Systems, John Wiley, 2012
14	R. Adaikkalavan and S. Chakravarthy, "Generalization of Events and Rules to Support Advanced Applications", published in Reasoning in Event-Based Distributed Systems 2012.
13	"Current State and Future of event-based Systems", Moderator: Annika Hinze Panellists: Jean Bacon, Alejandro Buchmann, Sharma Chakravarthy, Mani Chandi, Avigdor Gal, Dieter Gawlick, Richard Tibbetts, In the 'Handbook of Research on Advanced Distributed Event-Based Systems, Publish/Subscribe and Message Filtering Technologies' (http://www.cs.waikato.ac.nz/~hinze/ebsBook/), 2008.
12	Q. Jiang, R. Adaikkalavan, and S. Chakravarthy, "Event/Stream Processing for Advanced Applications", Book Chapter in Intelligent Techniques for Warehousing and Mining Sensor Network Data, IGI publications, 2009. (Book Chapter)
11	S. Chakravarthy and Q. Jiang, " Stream Data Processing: A Quality of Service Perspective ", Springer, Spring 2009. ISBN: 9 780387 710020 (Authored Book)
10	Jyoti Jacob, Anoop Sanka, Naveen Pandrangi, and Sharma Chakravarthy, "WebVigiL: An approach to Just-In-Time Information Propagation In Large Network-Centric Environments", Book Chapter (pp. 301-319) in Web Dynamics (Mark Levene, Alexandra Poulouvasilis (Eds.)), Springer, Heidelberg, 2004, ISBN# 3-540-40676-X, 476 pages, May 2004. (Book Chapter)

9	S. Chakravarthy and D. Cook, "2001 NSF Information and Data Management Workshop Proceedings, April/May 2001, 412 pages (Edited Proceedings)
8	A. Abbadi, M. Brodie, S. Chakravarthy, et al., "Proc. Of the 26 th International Conf. On Very Large Databases", 740 pages, September 2000. (Edited Proceedings)
7	S. Chakravarthy, S. Tufekci, and R. Honnavalli, "Flexible Manufacturing Simulation: Using an Active DBMS'' in Cooperative Knowledge Processing for Engineering Design, Eds. Jacucci, Chapmann and Hill Publishers, 1998. (Book Chapter)
6	E. Anwar, S. Chakravarthy, M. Viveros, "An Extensible Approach to Realizing Advanced Transaction Models'', in Advanced Transaction Models and Architectures, Eds. Sushil Jajodia and Larry Kerschberg, 1997. (Book Chapter)
5	U. Dayal, A. Buchmann, and S. Chakravarthy, "HiPAC -- An Active, Object-Oriented Database System'', in Active Database Systems -- Triggers and Rules for Advanced Database Processing, U. Dayal and J. Widom (Eds.), Morgan Kaufmann Publications, pp. 177-206, 1996. (Book Chapter)
4	P. Sadanandan and S. Chakravarthy (Eds.), "Advances in Data Management '94'', Tata McGraw Hill Publications, 1994, 400 pages. (Edited Proceedings)
3	J. Widom and S. Chakravarthy (Eds.), "Proceedings of the Fourth International Workshop on Research Issues in Data Engineering: Active Database Systems (RIDE-ADS 94)'', IEEE Computer Society Press, February 1994, 180 Pages. (Edited Proceedings)
2	S. Chakravarthy, "Active Database Management Systems: Requirements, State-Of-The-Art, and an Evaluation'', in Entity-Relationship Approach: The Core of Conceptual Modeling, (Ed. H. Kangassalo), Elsevier Science Publishers, North-Holland, pp.461-473, 1991. (Book Chapter)
1	U. Dayal, F. Manola, A. Buchmann, S. Chakravarthy, and S. Heiler, "Simplifying Complex Objects: The PROBE Approach to Modeling and Querying Them'', in Readings in Object-Oriented Databases, S. Zdonik and D. Maier (Eds.), Morgan Kaufman Publishers, Inc., San Mateo, California, pp. 390-399, 1989. (Book Chapter)

Refereed Journal papers

37	Das, S., Chakravarthy, S. (2018). Duplicate Reduction in Graph Mining: Approaches, Analysis, and Evaluation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 30(8), 1454--1466. https://doi.org/10.1109/TKDE.2018.2795003 .
36	S. Das and S. Chakravarthy, "Scalable Graph Mining: Algorithms, Partitioning Strategies, Analysis, and Validation", under review.
35	V. Bhatnagar, S. Kaur, and S. Chakravarthy, "Clustering Data Stream Using Grid-Based Synopsis", <i>Knowledge and Information Systems journal</i> , 4(11), pp. 127-152, 2014.
34	S. Chakravarthy, M. Aery, A. Venkatachalam, and A. Telang, "InfoSift: A novel Mining-Based Approach for Document Classification", <i>International Journal on Next-Generation Computing(IJNGC)</i> , 5(2), 2014.
33	Y. Cai and S. Chakravarthy, "Answer Quality Prediction in Q/A Social Networks by Leveraging Temporal Features", in <i>IJNGC (International Journal of Next-Generation Computing)</i> , March 2013
32	S. Kaur, V. Bhatnagar, and S. Chakravarthy, "Clustering of Data Streams: A Primer", accepted as book chapter, 2014
31	A. Telang, S. Chakravarthy, and C. Li. Personalized Ranking in Web Databases: Establishing and Utilizing an Appropriate Workload. <i>Distributed and Parallel Databases (DAPD)</i> , Springer, accepted August 1, 2012, To appear.
30	Telang, C. Li, and S. Chakravarthy, "One Size Does Not Fit All: User- and Query-Similarity based Ranking for web Databases, in <i>TKDE</i> , 24(9), September 2012.
29	A. Cuzzocrea, S. Chakravarthy, "Event-based Compression and Mining of Data Streams", <i>DKE journal</i> 69(7):678-708, 2010. A.
28	S. Chakravarthy and R. Adaikkalavan, "Provenance and Impact of Complex Event Processing (CEP): A Retrospective View", <i>Information Technology</i> , A scientific journal published by Oldenbourg Wissenschaftsverlag , 2009.
27	S. Savla and S. Chakravarthy, "A Single Pass Algorithm for Discovering Significant Intervals in Time-Series Data", <i>International Journal of Data Warehousing and Mining</i> , Vol. 3, No. 3, pp. 28-44, 2007.
26	H. Kona and S. Chakravarthy, "An SQL-based Approach to Incremental Association Rule Mining", in the special issue of the <i>Foundations of Computing and Decision Sciences journal</i> , 2006.
25	A. Srinivasan and S. Chakravarthy, "Discovery of Significant Intervals in Time-Series Data", in the special issue of the <i>Foundations of Computing and Decision Sciences journal</i> , 2006.
24	R. Adaikkalavan and S. Chakravarthy, "Active Authorization Rules for Enforcing Role-Based Access Control and its Extensions", in the special issue of <i>International Journal of Computer Systems Science and Engineering</i> , 2007.

23	A. Sanka, S. Chamakura and S. Chakravarthy, A Dataflow Approach To Efficient Change Detection of HTML/XML Documents in WebVigiL, in Computer Networks, 50(2006), pp. 1547-1563.
22	R. Adaikkalavan and Sharma Chakravarthy, "SnoopIB: Interval-Based Event Specification and Detection for Active Databases", in Knowledge and Data Engineering (DKE), 59(2006), pp. 139-165.
21	Jyoti Jacob, Alpa Sachde, and Sharma Chakravarthy, "CX-Diff: a change detection algorithm for XML content and change visualization for WebVigiL", in DKE (Data and Knowledge Engineering), 52(2), pp. 209-230, February 2005.
20	Sharma Chakravarthy, Y. Alp Aslandogan , Ramez Elmasri , Leonidas Fegaras , Jung-Hwan Oh : Database Research at UT Arlington. SIGMOD Record 32 (1): 73-80 (2003)
19	D. Hong, S. Chakravarthy, and T. Johnson, "Incorporating Load Factor into the Scheduling of Soft Real-Time Transactions for Main Memory Databases'', in Information Systems, Vol. 25, No. 4, pp. 309-322, 2000.
18	Y. Sagin, O. Oulusoy, and S. Chakravarthy, "Concurrent Rule Execution in Active Database Systems'', in Information Systems, Vol. 23, No. 1, pp. 39-64, 1998.
17	S. Chakravarthy, D. Hong, and T. Johnson, "Real-Time Transaction Scheduling: A Framework for Synthesizing Static and Dynamic Factors'', in Real Time Systems Journal, Vol. 14, No. 1, Pages 135-170, 1998.
16	M. Berndtsson, S. Chakravarthy, and B. Lings, "Extending Database Support for Coordinating Among Agents'', in Special Issue of International Journal of Cooperative Information Systems (IJCIS), Vol. 6, Nos. 3 & 4, Pages 315-339, 1997.
15	S. Chakravarthy, "Architectures and Monitoring Techniques for Active Databases: An Evaluation'', in Data and Knowledge Engineering, Vol. 16, pp. 1-26, 1995.
14	S. Chakravarthy, "Early Active Databases: A Capsule Summary'', in IEEE Trans. on Knowledge and Data Engineering, Vol. 7, No. 6, pp. 1008-1011, 1995.
13	S. Chakravarthy and D. Mishra, "Snoop: An Expressive Event Specification Language for Active databases'', in Knowledge and Data Engineering Journal, Vol. 14, pp. 1-26, 1994.

12	S. Chakravarthy, E. Anwar, L. Maugis, and D. Mishra, "Design of Sentinel: An Object-Oriented DBMS with Event-Based Rules'', in Information and Software Technology, Vol.36, No. 9, pp. 555-568, September 1994.
11	S. Chakravarthy and S-K. Kim, "Resolution of Time Concepts in Temporal Databases'', in Information Sciences, Vol. 80, No. 1-2, pp. 91-125, September 1994.
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13	S. chakravarthy, "Transformation of Pervasive raw data Into Actionable Knowledge", Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless adhoc Networks, St. Louis, March 2/3 2009 (3 pages)
13	S. Chakravarthy and R. Adaikkalavan, "Ubiquitous Nature of Event-Driven Approaches: A Retrospective View", Prestigious Dagstuhl workshop (Invited), May 2007
12	Raman Adaikkalavan and Sharma Chakravarthy: An Event-Based Framework For Generalized Access Control and Information Security, South Central Information Security Symposium (SCISS) , April 2004.
11	S. Chakravarthy "2003 NSF Information and Data Management Workshop Proceedings", position paper, 3 pages, Nov 2003
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21	Mr. Alksanderic Aleksander, "Stream-Based Video Analysis), expected 2021
20	Ms. Damini Singh, discontinued after 2 years
19	Mr. Abhishek Santra, "Multi-source, Multi-Data Analysis", expected Fall 2019.
18	Mr. Soumyava Das, "Graph mining using the Map/Reduce paradigm and Cloud Architecture", Spring 2017
17	Shirin Shirvani. "(Discontinued after two years)," Computer Science and Engineer. August 2014 - May 2016
16	Mr. Yuanzhe Cai, "Inferring expertise and Answer Quality Using machine Learning techniques from Q/A Social Networks", graduated summer 2014

15	Mr. Aditya Telang, "Information Integration for Multiple, Heterogeneous Repositories", Summer 2011. http://itlab.uta.edu/itlabweb/students/sharma/theses/Adityatelang.pdf
14	Ms. Roochi Mishra, "discontinued after 2 years", Computer Science and Engineering, 2006 to 2008
13	Mr. Raman Adaikkalavan, "Generalization and Enforcement of Role-Based Access Control (RBAC) Using a Novel Event-Based Approach", Summer 2006 http://itlab.uta.edu/itlabweb/students/sharma/theses/Ada06PHD.pdf
12	Mr. Qingchun (Dustin) Jiang, "A Framework for Handling QoS Requirements in Stream Data Processing", Summer 2005 http://itlab.uta.edu/itlabweb/students/sharma/theses/Jia05PHD.pdf
11	Mr. R. Zoufaly, "A Modeling Methodology for Active Databases and automatic extraction of ECA Rules'', (Discontinued for personal reasons)
10	Mr. H. Engstrom, "Change Detection and View maintenance Policies for Data warehouses'', Fall 2003, Co-Supervisor, University of Exeter, UK.
9	Mr. Hyonjin Kim, "Transaction Blades: Formalism and Performance Evaluation'', (Discontinued for personal reasons) 1996 to 2000
8	Mr. Shiby Thomas, "Architectures and Optimizations for Integrating Data Mining Algorithms with Database Systems'', Fall 1998, Chairman. http://itlab.uta.edu/sharma/People/ThesisWeb/sthomas_thesis.pdf
7	Mr. M. Berndtsson, "Cooperative Problem Solving using Active Paradigm'', Summer 1998, Co-Supervisor, University of Exeter, UK.
6	Mr. J. R. Arguello, "On Decision Tree Induction for Knowledge Discovery in Very Large Databases'', Summer 96, Chairman.
5	Ms. E. Anwar, "An Extensible Approach to Realizing Extended Transaction Models'', Spring 96, Chairman. http://itlab.uta.edu/sharma/People/ThesisWeb/emsa_phd_thesis.pdf
4	Mr. S. K. Kim, "Static Analysis of ECA Rules and Use of these Rules for Incremental Computation of General Aggregate Expressions'', Spring 96, Chairman. http://itlab.uta.edu/sharma/People/ThesisWeb/skk_phd_thesis.pdf
3	Mr. D. Hong, "Real-Time Transaction Scheduling: Synthesizing Static and Dynamic Factors'', Fall 1995, Chairman.
2	Mr. W-K Whang, "A Logic-Based Approach to a Federated Database

	System", January 1992. Thesis supervisor. Dept: Electrical Engineering.
1	Mr. I. Hwang, "Dynamic Load Balancing Algorithms for Multiprocessor Systems'', Spring 1994, Co-Chairman.
Doctoral Committee Membership (at UFL) (not updated since 1992)	
15	Mr. Y. Shyy, "An Object-Oriented Knowledge Base Programming Language
14	Mr. Rafi Ahmed, "Version Control and Management in Computer-Aided Design databases'', December 1990.
13	Mr. Minyoung Ra, "Data Fragmentation and Allocation Algorithms for Distributed Database Design'', November 1990.
12	Ms. U. Jager, "Optimizing ECA Rules in Distributed Environments'', Fall 1996, University of Humboldt at Berlin, Germany.
11	Mr. D. Arctur, "Design and Implementation of a Self-Defining Object-Oriented Database System for Digital Mapping'', Spring 1996. Dept: Urban and Regional Planning.
10	Mr. G. Mahalingam, "Application of the Object-Oriented Paradigm for the Design of Auditoria'', December 1994. Dept: Urban and Regional Planning.
9	Mr. Jaimin Bai, "Application of Parallel Processing techniques for Finite element analysis'', Fall 1994. Dept: Aerospace Engineering.
8	Mr. Ping Wu, "Rule Validation in Object-Oriented Databases'', July 1993. Dept: Electrical Engineering.
7	Mr. Suey-Chyun Fang, "A Neutral Data Model for the Design and Implementation of a Heterogeneous Data Model and Schema Translation System'', July 1993. Dept: Electrical Engineering.
6	Mr. F. E. Nasser, "Operation and Cost Models for High-speed rail and Maglev Systems'', July 1993. Dept: Civil Engineering.
5	Mr. HH Chen, "Temporal Knowledge Base Management: Model, Query Language, Algebra and Implementation Techniques'', April 1993. Dept: Electrical Engineering.
4	Mr. A. Hussam, "A Water Resource Management and Planning Decision Support System for the Sultanate of Oman'', August 1992. Dept: Environmental Engineering.

3	Mr. T. Anwar, "On the Application of Conceptual Clustering to database Systems'', August 1992. Dept: Electrical Engineering.
2	Mr. Chongtai Kim, "Development of A Natural Language Interface to a Sleep EEG Database'', May 1990. Dept: Electrical Engineering.
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Master's Thesis Supervision	
90	Ms. Kanthi Komar. "Analysis of Heterogeneous Multilayer Networks," Computer Science and Engineer. January 1, 2018 - Present (graduation date: Summer 2019)
89	Mr. Mayur Arora. "MavVStream: Expressing and Processing Situations on Videos Using the Stream Processing Paradigm," Computer Science and Engineer. August 1, 2016 - May 31, 2018 (graduation date: Spring 2018)
88	Mr. Manish Annappa, "Extracting and Modeling Information from Videos for Supporting Continuous Queries", Fall 2016
87	Mr. Jay Bodra, "Query Processing on partitioned Graph Databases", Summer 2016
86	Jasmine Varghese. "(Discontinued after one year)," Computer Science and Engineer. May 2016 - June 2017
85	Nandan Prakash. "(Discontinued after one year)," Computer Science and Engineer. January 2016 - December 2016
84	Mr. Ankur Goyal, "QP-Subdue: Query Processing on Graph Databases", December 2015
83	Mr. Aravind Venkatachalam, "m-InfoSift: A Graph-Based Approach For Multiclass Document Classification", Summer 2007 http://itlab.uta.edu/ITLABWEB/Students/sharma/theses/aravindv.pdf
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30	Ms. J. Sung, "A recoverable Asynchronous Event manager for Supporting Distributed Active Databases'', Fall 1997. http://itlab.uta.edu/sharma/People/ThesisWeb/jsung_thesis.pdf

29	Mr. Sang-Woo Han, "interactive Visualization Tool for Designing and Debugging Active Database Systems'', Summer 1997. http://itlab.uta.edu/sharma/People/ThesisWeb/shan_thesis.pdf
28	Mr. Prahlad Madabushi, "A Dynamic Rule Editor for sentinel: Design and Implementation'', Spring 1997. http://itlab.uta.edu/sharma/People/ThesisWeb/prahlad_thesis.pdf
27	Ms. H. Liao, "Global Events in Sentinel: Design and Implementation of a Global Event Detector, Fall 1996. http://itlab.uta.edu/sharma/People/ThesisWeb/hliao_thesis.pdf
26	Mr. D. Vance, "Supporting Active Database Semantics in Sybase'', Summer 1996. http://itlab.uta.edu/sharma/People/ThesisWeb/dvance_thesis.pdf
25	Ms. E. Malinowski, "Fragmentation Techniques for Distributed Object-Oriented Databases'', Summer 1996. http://itlab.uta.edu/sharma/People/ThesisWeb/elka_thesis.pdf
24	Ms. Hye-Sun Lee, "Support for Temporal Events in Sentinel: Design, Implementation, and Preprocessing'', May 1996. http://itlab.uta.edu/sharma/People/ThesisWeb/hsl_thesis.pdf
23	Mr. J. Granstrom, "OQL Parser and Rule Editor for Sentinel'', Fall 1995, MS Thesis to be submitted to the Royal Institute of Technology, Stockholm, Sweden, thesis supervisor.
22	Mr. J. Zhou, "SIEVE: An Interactive Visualization and Explanation Tool for an Active OODBMS'', August 1995. http://itlab.uta.edu/sharma/People/ThesisWeb/jz1_thesis.pdf
21	Mr. R. K. Honnavalli, "Design and Implementation of an Event Based Shop Floor Control Application of Sentinel -- An Active OODBMS'', August 1995, Co-Chairman.
20	Mr. L. Maugis, "Highly available replicated atomic data'', Co-Chair, August 1994.
19	Ms. Hema Kannan, "Making CANDIDE a Multi-user DBMS in a LAN Environment'', August 1994. http://itlab.uta.edu/sharma/People/ThesisWeb/hks_thesis.pdf
18	Mr. X. Zhang, "Performance Evaluation of Grace Hash-Join Algorithm on the KSR-1 Multiprocessor System'', August 1994. http://itlab.uta.edu/sharma/People/ThesisWeb/xhai_thesis.pdf
17	Ms. M. Andraka, "Staging Data in Client-Server Architecture: A Methodology for Client Buffer Management using semantic data'', May

	1994.
16	Mr. Z. Tamizuddin, "Visualization of concurrent rule execution in active Databases'', May 1994. http://itlab.uta.edu/sharma/People/ThesisWeb/zt0_thesis.pdf
15	Mr. F. Lambay, "Management of Recurrent Brain Tumors: Using an AI Approach'', April 1994, Co-Chairman. Dept: Industrial and Systems Engineering.
14	Ms. V. Krishnaprasad, "Event Detection For Supporting Active Capability in an Object-Oriented DBMSs: Semantics, Architecture, and Implementation'', March 1994. http://itlab.uta.edu/sharma/People/ThesisWeb/vk_thesis.pdf
13	Ms. R. K. Dastur, "Using Recoverable Queues for Reliable Event Communication Between Applications and Active Databases'', Co-Chair, December 1993.
12	Mr. R. Badani, "Nested Transactions for Concurrent Rule Execution: Design and Implementation'', November 1993. http://itlab.uta.edu/sharma/People/ThesisWeb/rhb_thesis.pdf
11	Mr. S. K. Kim, "A Formal and Unified Approach to Temporal Databases'', Nov. 92. http://itlab.uta.edu/sharma/People/ThesisWeb/skk_ms_thesis.pdf
10	Ms. E. Anwar, "Supporting Complex Events and Rules in an OODBMS: A Seamless Approach'', November 92. http://itlab.uta.edu/sharma/People/ThesisWeb/emsa_ms_thesis.pdf
9	Mr. D. Hong, "Real-Time Transaction Scheduling: A Cost-Conscious Approach'', August 1992. http://itlab.uta.edu/sharma/People/ThesisWeb/hong_ms_thesis.pdf
8	Mr. J. Muthuraj, "A Formal Approach to the vertical Partitioning Problem in Distributed database Design'', August 1992. http://itlab.uta.edu/sharma/People/ThesisWeb/jay_thesis.pdf
7	Mr. A. Sharma, "On Extensions to a Passive DBMS to Incorporate Active and Multi-media Capabilities'', August 1992. http://itlab.uta.edu/sharma/People/ThesisWeb/ash_thesis.pdf
6	Mr. S. Garg, "Extended Relational Algebra (ERA): For Situation Optimization in Active Databases'', Dec 91. http://itlab.uta.edu/sharma/People/ThesisWeb/garg_thesis.pdf
5	Mr. D. Mishra, "Snoop: An Event Specification Language for Active Databases and Its Detection'', Aug 91. http://itlab.uta.edu/sharma/People/ThesisWeb/deepakm_thesis.pdf

4	Mr. Dave Staal, "A Methodology for Multi-Level Information Modeling using a Conceptual Tree'', May 91.
3	Mr. R. Blanco-Mora, "Active DBMSs for supporting Very Large Production Systems'', May 91. http://itlab.uta.edu/sharma/People/ThesisWeb/rbm_thesis.pdf
2	Mr. Anil Kamath, "Transaction Management in Federated Information Bases'', Co-Chair, August 90.
Undergraduate Project/Thesis Supervision	
6	Ms. J. Graham, "CISE Space allocation database'', Spring 1996, Senior project supervisor
5	Mr. C. Beeman, "JTS -- Job Tracking System'', May 1995, Senior project supervisor
4	Ms. Ziemann, "Temporal event recognition in Sentinel'', May 1995, Senior project supervisor.
3	Ms. C. Younskevicius, "Simulation Data Management of Transaction Processing'', December 1993, Senior project supervisor.
2	Mr. Jean-Gael Bakalemian (from Center D-Etudes de la Navigation Aerienne, France), "Introduction of ECA rules in an Object-Oriented Flight Data management System'', June 1993, B.S. thesis Co-supervisor
1	Mr. Lionnel Maugis (from Center D-Etudes de la Navigation Aerienne, France), "Adequacy of Active Database Management Systems to Flight data Processing Servers'', June 1992, B.S. thesis Co-supervisor.

Invited/Keynote Talks	
December 2018	Chakravarthy, S. (Author & Presenter), "Humble Data management to Big Data Analytics: A retrospective Stroll," To be given at BDA (BIG Data Analytics) Conference in Warangal, India, December 2018.
July 2018	Chakravarthy, S. (Author & Presenter), "Flexible Analysis of Multi-Source, Multi-Feature Data using Multilayer Networks," As part of LeadingIndia.AI series of lectures , SaintGits College, Kottayam, Kerala, India. (July 2018).
July 2018	Chakravarthy, S. (Author & Presenter), "Improving Answer Quality Prediction in Q/A Social Networks," As part of LeadingIndia.AI series of lectures , SaintGits College, Kottayam, Kerala, India. (July 2018).

July 2018	Chakravarthy, S. (Author & Presenter), "Flexible Analysis of Multi-Source, Multi-Feature Data using Multilayer Networks," Marwadi University, Rajkot, India. (July 2018). As part of the leadingIndia.AI initiative
July 2018	Chakravarthy, S. (Author & Presenter), "Flexible Analysis of Multi-Source, Multi-Feature Data using Multilayer Networks," SR Engineering College, Warangal, India. (July 2018). As part of the leadingIndia.AI initiative
July 2018	Chakravarthy, S. (Author & Presenter), "Improving Answer Quality Prediction in Q/A Social Networks," SR Engineering College, Warangal, India. (July 2018). As part of the leadingIndia.AI initiative
June 2018	Chakravarthy, S. (Author & Presenter), "Improving Answer Quality Prediction in Q/A Social Networks," Marwadi University, Rajkot, India. (June 2018). As part of the leadingIndia.AI initiative
Sep 2017	Gave an invited colloquium talk at Umea University in Sweden, titled "Improving Answer Quality Prediction in Q/A Social Networks"
September 2016	Chakravarthy, S. (Author & Presenter), "Data management to Data Science: A retrospective Contemplation," University of Skoevde, Sweden. (September 2016).
Jan 2013	Gave an invited seminar on Data mining at ISiM(International School of Information Management), Mysore, India
Dec 2012	Keynote speaker at the Big Data Analytics (BDA) organized by the Delhi University, India and the University of Izsu, Japan, December 2012
Aug 2011	Information Processing: From File Systems to Cloud Computing, keynote given at the Fifth International Conference on Information Processing (ICIP) conference, Bangalore, India
July 2011	A holistic, Similarity-Based Framework for Ranking in Web Databases, to be given at Delhi University, India
March 2011	InfoSift: Adapting Graph Mining Techniques for Document Classification, Tokyo SIGMOD chapter talk at Tokyo Institute of Technology (Titech), Tokyo, Japan
March 2011	Issues and Solutions for Stream Data Processing and Management, Tsukuba University, Tsukuba, Japan
March 2011	Obtaining Actionable Information without Drowning in Data: From a Technology Perspective, keynote at the First data Intensive Workshop, Tokyo, march 2011.
December 2010	User- and Query-dependent Ranking for Web Databases, QUT (Queens University of Technology), Brisbane, Australia
May 2010	InfoSift: Adapting Graph Mining Techniques for Document Classification, University of Kiel, Kiel, Germany
January 2010	Querying the Web: Challenges and Approaches, Delhi technology University (DTU), India
January	Introduction to Stream Data Processing, Delhi University,

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2010	India
December 2009	Going Beyond Search: Querying the Web, keynote at the ICIT-2009 International Conference at Bhubaneswar, India
July 2009	Information Integration Challenges for Querying the Web, Colorado State University, Fort Collins, Co (to be given)
May 2009	Information Integration: Challenges and Approaches, IBM India Research Laboratory, Bangalore.
May 2009	From Active Databases to Complex Event Processing: A retrospective, Wipro Applied Research Lab, Bengaluru
May 2009	Querying the Web: Challenges and Approaches, IIT Madras, Chennai, India
June 2009	Events and Streams: How to Improve Assisted Living Environments Through Automations, Keynote Talk, PETRA Conference, Corfu, Greece
Apr 2008	MavEStream and InfoMosaic: Overview at the big* Symposium, Arlington, Texas, 2008
July 2007	Overview of IT Laboratory Research Activities, Satyam Research, IISc. Bangalore
July 2007	Issues and Solutions for Stream Data Processing and Management, Lucent Laboratory, Bangalore, India
July 2007	Issues and Solutions for Stream Data Processing and Management, IBM Research Laboratory, Delhi, India
June 2007	Adapting Graph-Mining Techniques for Email Classification, IBM Research Laboratory, Bangalore, India.
June 2007	Expressive Pattern Specification and Its Detection Over Stream/Text Repositories, IISc, Bangalore, India
July 2007	Education, Research, Training, and Technology Transition, at HIET Ghaziabad, India
July 2006	An Event-Based Framework for Role-Based Access control Generalization, Specification, and Enforcement, University of Cambridge, Cambridge, UK
July 2006	Keynote address "Event-Based Active Capability: A technology that Refuses to Go Away", at the International Conference on Database and Information Systems (Baltic DB&IS), Vilnius, Lithuania.
Dec 2004	WebVigil: Customized Change Detection in Web Environments, Invited talk at IBM/IRL, New Delhi.
Aug 2004	Graph Mining Using Relational Database techniques, Invited Talk, IIT Bombay, August 2004
July 2004	Enabling Technologies for harnessing Information Explosion, Invited Talk, CSE-Chapter, Pune, July 2004.
July 2004	Stream Processing Techniques for Telecommunication Applications, Presentation at Agilent, Scotland, July 2004
Feb 2004	Graph Mining: Performance and Scalability Issues Using Relational Database Techniques, UNT, Denton, USA, 2004

July 2003	Graph Mining: Performance and Scalability Issues Using Relational Database Techniques, York University, UK.
June 2003	Relational Database Approaches and Their Optimization Graph Mining, IBM research Center, India.
May 2003	Just-In-Time (JIT) Information Propagation: To Push or Not to Push?, Keynote talk at Information technology: Prospects and Challenges, Katmandu, Nepal.
Jul 2002	S. Chakravarthy, "ECA Paradigm: Current-state-of the Art and what the Future Holds", at EnigmaTec, London, UK, June 17 th 2002
Jun 2002	S. Chakravarthy, "Pervasiveness of ECA Paradigm: From Constraints to E-Commerce", Keynote Address at the International Workshop on Rule Markup Language (RuleML), Sardinia, Italy, June 4 th 2002.
Jan 2002	S. Chakravarthy and V. Kumar, "Profile-based Context-aware Information Delivery for Mobile Environments", presented at the Invited NSF Workshop on Context-aware Mobile and Pervasive Data Management, Providence, January 2002
Jul 2000	Just-In-Time Information (JIT): To Push or Not to Push, Keynote talk at the British National Conference on Databases (BNCOD), July 2000
Aug 2000	Current Trends in Information Technology, Invited talk at SRA Systems, Chennai, India
Nov 1999	From Databases to Information Technology, Invited talk at Skoevde, Sweden Nov 1999
Nov 1999	A Retrospective Appraisal of Active and Real-Time Technologies and Their potential, Invited talk at RTIS, Dallas
Jul 1998	Inducing Cooperation Among Information Systems, Keynote talk at the Cooperative Information Systems and Agents (CIA'98), Paris, July 1998.
Mar 1997	Promises and Realities of Active Database Technology: An appraisal, Invited talk at the 8th Data Engineering Workshop, Kobe, Japan.
Nov 1996	A Practical approach to Build Real-Time Database Applications Invited talk at the Workshop on Databases: Active and Real-Time (Concept meets Practice) (DART'96), Bethesda, Maryland.

Aug 1996	Extensions to Snoop: Event specification for Real-Time Applications, Invited talk at the SNART (Swedish Association for Real-Time Systems) meeting, Skovde, Sweden.
Jul 1995	Reactive Capability in Data, Knowledge Bases: A Core Requirement for Advanced Applications Keynote talk at the Basque Int'l Workshop on Information Technology (BIWIT'95), San Sebastian, Spain.
Jul 1995	Experiences in Building an active OODBMS: Where We Are and Where Are We Headed? At the ACTNET meeting, San Sebastian, Spain.
Feb 1994	Snoop: An Expressive Event Specification Language for Active Databases, at the 5th International Hong Kong Computer Society Database Workshop, Kowloon, Hong Kong.
Feb 1992	Extending Database Management Systems for Supporting Engineering Applications, at the First International Congress of Electromechanical Engineering, Problems, and Perspectives held at Mexico City, Mexico.
Sep 1991	Combining Active and Deductive Capabilities: A Systems Perspective, at the Second International Workshop on Deductive Approach to Information Systems and Databases, Aiguablava, Spain.
	Invited Seminar/Colloquium (not updated since 2004)
Sep 2004	S. Chakravarthy, "Graph Mining Using the Relational Approach", IBM Global services center, new Delhi.
Dec 2004	S. Chakravarthy, "WebVigil: Customized Change Detection for Web Environments", IBM Research Lab, New Delhi.
Aug 2002	S. Chakravarthy, "Active Capability-Based Change Detection in Large Network-Centric Environments", Asian Institute of Technology, Bangkok, Thailand.
July 2002	S. Chakravarthy, "WebVigil: A Rule-Based Approach to Change Detection in Web Environments", At the Birkbeck College, University of London, June 17 th 2002.
Aug 1998	An Agent-Based Approach to Extending The native Active Capability of Relational Database Systems, at the Indian Institute of Science, Bangalore, India.
Jul 1998	An Agent-Based Approach to Extending The native Active Capability of Relational Database Systems, at the Indian

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	Institute of Technology (IIT) -- Bombay, Mumbai, India.
Sep 1997	Design and Implementation of the Global Event Detector, at the University of Linkoping, Sweden.
Mar 1997	Design and Implementation of the Local Event Detector, at JAIST (Japan Advanced Institute of Science and Technology), Hokuriku, Japan.
Jun 1996	A general Framework for Supporting Active Capability: An Overview of Sentinel, at Technion, Haifa, Israel.
Jul 1996	Sentinel Overview'', at Bilkent University, Ankara, Turkey.
Apr 1996	Broader Uses of Active Capability: An Appraisal, at CS/MIS Lecture Series, University of Arizona, Tucson.
Mar 1996	Design and Implementation Details of Sentinel, at Hewlett-Packard Labs., Palo Alto, CA.
Mar 1996	Technology Transfer of Active Capability, at Informix, Mountain View, CA.
Sep 1995	Promises and Realities of Active Capability: An Appraisal, at the T. J. Watson Research Center, IBM, Hawthorne, NY.
Jul 1995	Overview of Sentinel: An Active Object-Oriented DBMS, Institut National de Recherche en Informatique et Automatique (INRIA), Paris, France.
Mar 1995	Overview of Sentinel: An Active Object-Oriented DBMS, Indian Institute of Science, Bangalore, India.
Mar 1995	Active and Real-Time DBMS Work at the University of Florida, Hong Kong University of Science and Technology (HKUST), Hong Kong.
Mar 1995	Overview of Sentinel: An Active Object-Oriented DBMS, University of California at Los Angeles, CA.
Jul 1994	Architecture and Implementation of Sentinel: An Object-Oriented Active DBMS, University of Skovde, Sweden.
Jun 1994	Overview of Sentinel: An Object-Oriented Active DBMS, Institute of Computing Science, Technical University of Poznan, Poznan, Poland.
Jun 1994	Snoop: Semantics, Contexts, and Implementation in Sentinel,

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	Institut Fur Informatik, Technische University at Cottbus, Cottbus, Germany.
Jun 1994	Architecture and Implementation of Sentinel: An Object-Oriented Active DBMS, Software Technology Seminar, National Center for Software Technology (NCST), Bombay, India.
Jun 1994	An Introduction to Object-Oriented Active Databases, Information Management Resources, Bombay, India.
Oct 1992	Real-Time Transaction Scheduling: A Cost Conscious Approach, at TH Darmstadt, Darmstadt, Germany.
Jun 1992	An Expressive Event Specification Language for Sentinel, at the Computer Systems Laboratory, Texas Instruments, Dallas, June 1992.
May 1992	Active, Real-Time, and Heterogeneous Databases, a short course at the Computer Science Department, University of Skovde, Skovde, Sweden. Also, set research directions for the program.
May 1992	Events, Triggers, and Active Databases, at the Department of Computer Science, University of Linkoping, Linkoping, Sweden.
Feb 1992	Event Specification in Sentinel, at the Microelectronics and Computer Technology Corporation (MCC), Austin, Texas.
Dec 1991	Rule Optimization in Sentinel, at the Tata Institute of Fundamental Research, Bombay, India.
Dec 1991	Supporting Very Large Rule Bases: An Active Database Approach, Tata Consultancy Services, Bombay, India
Dec 1991	Next Generation DBMSs: Need for Active and Real-Time Functionality, at the Computer Society of India, Bangalore Chapter, Bangalore, India.
Jun 1991	Cooperative Problem Solving: A DB-Centric Approach at the workshop for establishing directions for cooperative scientific problem solving, Trento, Italy.
May 1991	Situation Monitoring in Active Databases, at the National Center for Software Technology (NCST), Bombay, India
Apr 1991	Making an Object-Oriented System Active: Design and Implementation Issues, at NTT Data Communications, Tokyo, Japan.
Apr 1991	Active Database Systems: What Next?, KAIST (Korea Advanced Institute for Science and Technology), Seoul, South Korea.

Apr 1991	Active Database Systems: At the Crossroad of AI and Databases, Tokyo Denki University, Tokyo, Japan.
Apr 1991	Active Database Systems: An Overview, Fujitsu Labs, Tokyo, Japan
Sep 1990	Active Databases: Issues, and Solutions, Columbia University, New York.
Mar 1990	HiPAC: Overview of an Active Database Management System, Dipartimento di Elettronica, Politecnico di Milano, Milan, Italy.
Oct 1989	Beyond PROBE and HiPAC: Desiderata of DBMS Features for Supporting Non-traditional Applications, Database Research Workshop, Database Systems Research and Development Center, University of Florida.
Aug 1989	Rule Management and Evaluation: An Active DBMS Perspective, Institut National de Recherche en Informatique et Automatique (INRIA), Paris.
Aug 1989	Multiple Query Optimization: Making it Viable for Advanced DBMSs, European Computer-Industry Research Center GMBH (ECRC), Munich.
May 1989	Overview of HiPAC: An Active, Time-Constrained Database Management System, Hewlett-Packard Laboratories.
	Invited Tutorials
March 2014	Graph Mining Approaches: From Main Memory to Map/Reduce, DASFAA, 2014, Bali, Indonesia.
December 2009	Information Integration: Challenges and Approaches, COMAD, Mysore
December 2008	Graph Mining Techniques and Applications, COMAD, Mumbai, India
April 2008	Stream Processing: Going Beyond Database Management Systems, to be given at the ICDE 2008 conference in Cancun, Mexico.
March 2008	Stream Processing: Going Beyond Database Management Systems, to be given at the DASFAA 2008 conference, New Delhi.
Sep 2006	Stream Processing: Going Beyond Database Management Systems, at ADBIS Conference in Thessaloniki, 2006
April 2006	Database Mining as Opposed to Data Mining, at the Pacific Asia Conference on Knowledge and Data Discovery (PAKDD), Singapore, April 2006
Mar 2006	Graph Mining Techniques and Applications, EDBT (Extended Database technology) Conference, Munich, Germany, 2006

May 2005	Graph Mining Techniques and Applications, PAKDD (Asia Pacific Conference on Knowledge and Data Discovery), Hanoi, Vietnam.
May 2003	Push Vs. Pull: Information Dissemination Techniques for the Web, International Conference on Information Technology: Problems and Challenges, 2003 Katmandu, Nepal.
Dec 1995	Emerging Trends in Database Systems, at the 7th International Conference on Management of Data (COMAD '95), Pune, India, December 1995, (jointly with Prof. S. B. Navathe).
Dec 1994	Object-Oriented Database Concepts and Systems at the International Conference on the management of Data (COMAD '94) in India, (jointly with Prof. S. B. Navathe).
Jun 1994	Distributed Data Management: Promises, State-of-the-art, and Current Trends, at the 14th International Conference on Distributed Computing Systems (ICDCS'14), Poznan, Poland.
Feb 1994	Active Databases: Issues and Concepts, at the 5th International Hong Kong Computer Society Database Workshop, Kowloon, Hong Kong.
Apr 1993	Active and Real-Time Databases, at the International Conference on Data Engineering (ICDE '93) in Vienna, Austria (jointly with Prof. Alex Buchmann)
Oct 1992	Federated, Heterogeneous Databases, at the 11th International conference on Entity Relationship Approach, Karlsruhe, Germany (jointly with Prof. S. B. Navathe)
Feb 1992	Active and Real-Time Databases, at the Eight International Conference on Data Engineering at Phoenix.
Dec 1991	Active and Real-Time Databases at the International Conference on the Management of Data (COMAD '91) in India.
Oct 1991	Active and Real-Time Databases at the 10th International conference on Entity Relationship Approach, San Mateo, CA.
Oct 1990	Active and Heterogeneous Databases at the 9th International conference on Entity Relationship Approach, Lausanne, Switzerland.

University Service

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<i>Visitors Hosted</i>	
May 2018	Prof. Lili Jiang from University of Umea, Umea, Sweden for 10 days
Jan 2011	Dr. Jianha Wu from Zinan University, Zuhai campus, China visited for 1 year
Oct 2008	Prof. Avigador Gal from technion, Israel visited and gave a seminar
July 2008	Prof. Anne Hee Ngu from Southwest Texas State University, San Marcos, visited for 4 months (as part of her sabbatical)
Mar 2008	Dr. Sudarshan Murthy, Wipro Applied research Group, Bangalore
Oct 2006	Profs. Ken Moody and Jean Bacon, University of Cambridge, Cambridge, UK
May 2001	Henrik Engstrom, Univ. of Skovde, Sweden 2 weeks
Dec 2000	Whang-Kyu Whang, South Korea, 1 year,
Jan 2000	Jun Miyazaki, JAIST, Japan, 1 year
Aug 2000	Injae Hwang, South Korea, 1 Year
Feb 1997	In Hong Lee, Jeonju University, Korea, 1 year 2/97 to 2/98
Mar 1996	Ms. U. Jaeger, University of Humboldt, 2 weeks in March 1996.
Jan 1996	Mr. Mikael Berndtsson, University of Skovde, Sweden, 2 weeks, Jan 96.
Aug 1995	J. E. Granstrom, Royal Institute of Technology, Sweden, 4 months (8/95 to 12/95).
Jan 1995	Prof. J. D. Yang, Chonbuk National University, Chonju, South Korea, 1 year (1/95 to 1/96).
Aug 1993	Prof. Harou Yokota, Japan Advanced Institute of Science and Technology (JAIST), Japan, 2 months (8/93 to 10/93).
Feb 1993	Mr. Jean-Gael Bakalemian from Center D-Etudes de la Navigation Aerienne, France, 4 months (2/93 to 6/93).
Jan 1993	Mr. Mikael Berndtsson, University of Skovde, Sweden, 1 week, 1/93.
Feb 1992	Mr. Lionnel Maugis from Center D-Etudes de la Navigation Aerienne, France, 4 Months (2/92 to 6/92).
<i>Chairman</i>	(Not update in quite a while)

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	Graduate Committee, UTA 8/2000 to present
	Distance-education committee, 1997-1999. Transitioning from FEEDS to web-based courses, especially certificate courses in IT. Facilities committee, 1991 to 1994. Established the cost center for computer maintenance (with Prof. Joseph Wilson). Level: Department
	Information Science Program, 1991 to 1999. Prepared handouts for distribution to College of Business Administration (CBA) students and orientation material or incoming CIS, CBA majors, 1993. Level: Department.
<i>Member</i>	(not updated in quite a while)
	<ul style="list-style-type: none"> Recruiting Committee, UTA, 2000 to present. Level: Department
	<ul style="list-style-type: none"> Tenure and Promotion Committee, UTA 2000 to present. Level: Department
	<ul style="list-style-type: none"> Comprehensive examination committee, 1990-1992. Level: Department
	<ul style="list-style-type: none"> Curriculum committee, 1991 to 1999. Level: Department
	<ul style="list-style-type: none"> Facilities committee, 1989-1990, 1995 Level: Department
	<ul style="list-style-type: none"> Graduate Admissions Committee, 1993-1994. Level: Department
	<ul style="list-style-type: none"> Task Force to implement exchange between UF and University of Poona, India, 1994. Level: University
<i>Department representative</i>	<ul style="list-style-type: none"> Database Group at UTA
	<ul style="list-style-type: none"> Undergraduate curriculum committee of the College of Business Administration, 1992 to present. Level: College
<i>Department Coordinator</i>	<ul style="list-style-type: none"> United Way campaign, 1992-93, Level: Department
<i>College Representative</i>	<ul style="list-style-type: none"> In the University Senate, 1994-96. Level: College COE Elections committee 2008 - College Awards Committee 2006 COE Appeals Committee 2006 --
<i>University Program Advocate</i>	
	<ul style="list-style-type: none"> Contact for the India-UTA joint program with Presidency University, Bangalore, India
	<ul style="list-style-type: none"> Of the Cooperative agreement between UF and the University of Poona, India, 1994. Level: University

	<ul style="list-style-type: none"> Of the Cooperative agreement between UF and the University of Skovde, Sweden, 1994. Level: University
<i>Liaison</i>	
	<ul style="list-style-type: none"> Departmental liaison with the College of Business Administration (CBA), 1990 to present, Level: College

Professional Activities (only important ones highlighted)

Associate Editor	International Journal of Next-Generation Computing (IJNGC), 2011 -
Associate Editor	IEEE Transactions on Knowledge and Data Engineering (TKDE), 2006 - 2011
Guest Editor	Special issue of Journal of Intelligent Information Systems (JIIS) on Active Databases, October 1996 issue (with J. Widom, Stanford University).
	Special issue of IEEE Data Engineering Bulletin on Active Databases (with Jennifer Widom, Stanford University), Volume 15, No. 1-4, December 1992, 60 pages.
<i>General co-Chair</i>	DEBS 2013 (International Conference on Distributed Event-Based Systems), at UT Arlington, June 29 through July 3, 2013.
<i>Organizer</i>	Dagstuhl Seminar on Active Databases, March 1994 (with Prof. A. Buchmann, Germany and Prof. K. Dittrich, Switzerland). It is a prestigious, by invitations-only workshop (held in Schloss Dagstuhl, Germany); this workshop traditionally charts the direction of research in a promising area.
	IDM 2001 Workshop in Dallas/Fort Worth, May 2001
	bigD* Symposium (A 1 day Data and Information Management Symposium covering Universities in the state of Texas), at UTA, April 19, 2008 (approx. 40 participants)
<i>Invited Participant</i>	(not updated in quite a while!)
	Complex Event Processing, Dagstuhl Workshop, May 2011
	Complex Event Processing, Dagstuhl Workshop, May 2007
	IDM 2000 Workshop Organized by NSF, March 11-13, 2000
	IDM98 Workshop Organized by NSF, March 29-31, 1998,
	NGIE (New Generation Information Environment) Retreat

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	organized by Rome Labs, Rome, Nov. 17-20, 1997,
	Information2000 Workshop organized by Rome Labs, Rome, Oct. 7-9, 1997,
	I*3, POB Workshop organized by ARPA, San Diego, Jan 9-12, 1996.
	I3S Workshop organized by Rome Laboratory, Rome, November 1994.
	International Workshop on an Infrastructure for Temporal Databases, Sponsored by Advanced Research Projects Agency (ARPA) and National Science Foundation (NSF), Arlington, Texas, June 14-16, 1993.
	Intelligent Information Integration Systems (I3S) Workshop, Sponsored by Advanced Research Projects Agency (ARPA) and SISTO and several Federal agencies, Reston, Virginia, March 17-19, 1993.
<i>PC Chair/ Co-Chair/ Co-Chair</i>	
	DEXA 2019, Linz, Austria
	DaWaK 2017 in Lyon, France, August 2017
	BDA 2017 in Hyderabad, India, December 2017
	ODBASE 2009
	ICDE 2008, Finance Manager
	SIGMOD 2000, Corporate Sponsors Chair
	VLDB 2000, Publications Chair
	ICDE'98, Chair for Research Prototype Demos
	ICDE'97, North American Coordinator
	ICECCS '96, '97, Track Co-Chair, Second IEEE International Conference on Engineering of Complex Computer Systems, track: Complex Database Systems and Data Management (with Prof. S. Andler, University of Skovde, Sweden).
	VLDB '96, Tutorial Co-Chair, International Conference on Very Large Databases, Bombay, India.
	ICDE '96, PC Vice Chair, 12th International Conference on Data Engineering, Feb. 26 -- March 1, 1996 (Vice Chair for the area: Extensible and Active Database, Knowledge Base Systems).

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	ARTDB '95, PC Co-Chair, An International Workshop on Active and Real-Time Database Systems, June 9-11, Sweden, 1995 (with Prof. Sten Adler, University of Skovde, Sweden).
	COMAD '94, PC Co-Chair, Sixth International Conference on Management of Data, India, December 1994. (With P. Sadanandan, National Center for Software Development, Bangalore, India)
	RIDE-ADS '94, PC Co-Chair, IEEE and CS sponsored Fourth International Workshop on Research Directions in Data Engineering Active Database Systems, Houston, February 1994. (With Prof. Jennifer Widom, Stanford University).
Chair, Session	
	On "Monitoring and Data Dissemination", VLDB 2002, Hong Kong, 2002.
	On "Aggregation", VLDB 2000, Cairo, Egypt, September 2000.
	On "Query Processing in Spatial databases", ICDE'98, Orlando, FL, February 1998.
	On "Well-Behaving Rule Systems for Entity-Relationship and Object-Oriented Models", ER'97 Conference, LA, CA, November 1997.
	on "Video and Audio Systems", CIKM'97, Las Vegas, November 1997
	On "Active Database Systems" at the 11 th International Conference on Data Engineering (ICDE), Taipei, Taiwan, March 1995.
	On "Modeling and Querying" at the 20th International Conference on Very Large Databases (VLDB), Santiago, Chile, 1994.
	on "Temporal Object-Oriented Models" at the Int'l Conf.
	On Entity Relationship Approach, Dallas, December 93.
	on "Temporal databases" at the 17 th International Conference on Very Large Data Bases, Barcelona, Sep. '91
	on "Deductive Databases I" at the 2nd International workshop on the deductive approach to information systems and databases, Aiguablava, Spain, Sep. '91

	on "Distributed Databases" at PARBASE-90: Int'l Conf.
	On Databases, Parallel Architectures, and their Applications, 90.
	on "Languages and Learning" at the Int'l Conf. on Cooperating
	Knowledge Based Systems, Oct. 90.
Chair, Panel	(not updated in quite a while)
	On Core Database Research - is it Relevant Anymore?, COMAD 2005, Goa, India.
	On "The Future of Active Database Systems -- SQL Triggers, Knowledge-Based Rule Processing, and Beyond", at the 11 th International Conference on Data Engineering (ICDE), Taipei, Taiwan, March 1995.
	On "Active Database Requirements - The User's Perspective", at RIDE-ADS, Int'l workshop on Active Database Systems, Houston, February 1994.
	On "Coping with Disparate Knowledge in Control Applications" at the Fifth IEEE Int'l Symposium.
	On Intelligent Control, 90.
	On "Information Technology's Next Breakthrough", at the Information 2000 Workshop, Rome, NY, October 1997.
	On "Centralized or Distributed Information Processing", at the 7th International Conference on Management of Data (COMAD '95), Pune, India, December 1995.
Member, Panel	
	On Database Performance and Functionality - Next Few Years? BNCOD 2006, Belfast, UK.
	On "Legacy Systems are here to Stay: How to deal with them?" at the Basque Int'l Workshop on Information Technology (BIWIT'95), San Sebastian, Spain, July 1995.
	on "Cooperative Database Design" at the 17 th International Conference on Very Large Data Bases, Barcelona, '91
	On "Cooperative Knowledge Base Systems" at the Int'l Conf.

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	on Data Engineering, Kobe, Japan, April 1991.
<i>Member, Program Committee</i>	
	COMPUTE 2010, IDEAS 2010, DEXA 2010, BNCOD 2010
	Dawak 2009, Dexa 2009, 2010, ideas 2009, Dasfaa 2009, ER 2009
	VLDB 2002, ICDE 2003, SIGMOD 2003, CIKM 2002, 2003 etc.
	ICDE 2001, DaWaK 2000, CODAS 2001, FLAIRS 2001.
	DaWaK'99, First International Conference on Data warehousing and Knowledge Discovery, Italy, Aug 1999.
	DWDM'98, International Workshop on Data mining and Data warehousing, Singapore, Nov. 1998.
	ARTDB'97, Second International Workshop on Active, Real-Time and Temporal Databases, Como, Italy.
	IEEE International Conference on Engineering of Complex Computer Systems (ICECCS), 1996, 1997
	Sixth IFIP TC-2 Working Conference on Data Semantics (DS-6), 1995
	Int'l Conference on Extending Data Base Technology (EDBT 96), 1996.
	5th Int'l Hong Kong Computer Society Workshop on Next generation Database Systems, '94 -- '96.
	Int'l Symposium on Object-Oriented methodologies and Systems (ISOOMS), Palermo, Italy, September 1994.
	Int'l Working Conference on Cooperating Knowledge Based Systems, University of Keele, England, June 1994.
	1st Int'l Workshop on Rules in Database Systems (RIDS), 1993, 1995.
	International Conference on Very Large Data Bases, '91, '93 -- '95
	International Conference on Data Engineering, '90, '91, '92
	International Conference on Entity-Relation Approach, '91 - '94
	Int'l Conf. on Management of Data (COMAD), India, '91, '92
	IEEE Int'l Symposium on Intelligent Control, Philadelphia, '90
	Compsac90 -- Int'l Computer Software and Applications Conf.
<i>Reviewer</i>	
	VLDB journal
	ACM Transactions on Database Systems
	IEEE Trans. on Knowledge and Data Engineering
	Distributed and Parallel Databases
	Information Sciences
	IEEE Trans. on Software Engineering

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	IEEE Computer, 1991 to present.
	Journal of Parallel and Distributed Computing.
	Data and Knowledge Engineering (North-Holland).
	Information Systems Journal (Pergamon Press).
	National Science Foundation and various professional conferences.