

MURAT DEMIRBAS

Computer Science and Engineering
University at Buffalo, SUNY
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RESEARCH INTERESTS ◇ Wireless sensor networks, Distributed and networked systems, Distributed algorithms, Fault-tolerant computing, Self-stabilization, Formal methods

EDUCATION ◇ **Post-doctorate** Sept 2004 – Aug 2005

Theory of Distributed Systems Group
MIT CSAIL, Cambridge, MA, USA
Supervisor: Prof. Nancy Lynch

◇ **Doctor of Philosophy** Aug 2004

Department of Computer Science and Engineering
The Ohio State University, Columbus, OH, USA

- Dissertation Title: “*Scalable Design of Fault-Tolerance for Wireless Sensor Networks*”
- Advisor: Prof. Anish Arora

◇ **Master of Science** March 2000

Department of Computer Science and Engineering
The Ohio State University, Columbus, OH, USA

- Thesis: “*Resettable Vector Clocks: A Case Study in Designing Graybox Fault-Tolerance*”
- Advisor: Prof. Anish Arora

◇ **Bachelor of Science** June 1997

Department of Computer Science and Engineering
Middle East Technical University, Ankara, Turkey

EMPLOYMENT HISTORY ◇ **Assistant Professor** Aug 2005 – on going

Computer Science and Engineering Department
University at Buffalo, SUNY
Buffalo, NY

◇ **Post-doctoral Research Associate** Sept 2004 – Aug 2005

Theory of Distributed Systems Group
MIT CSAIL, Cambridge, MA, USA
Under the supervision of Prof. Nancy Lynch

◇ **Graduate Research Associate** Sept 1998 – Aug 2004

Department of Computer Science and Engineering
The Ohio State University, Columbus, OH, USA
Under the supervision of Prof. Anish Arora

◇ **Summer Intern** June 2001 – Sept 2001

Gryphon Project, IBM Research
IBM T.J. Watson Research Center, Hawthorne, NY, USA
Under the supervision of Dr. Robert Strom

AWARDS & HONORS ◇ **NSF CAREER Award, 2008** (CNS-0747209) for “An In-network Collaboration and Coordination Framework for Wireless Sensor Actor Networks”

- ◇ **ICDCS 2002 Best Paper Award** for “Convergence Refinement”
1st place of 335 papers at the International Conference on Distributed Computing Systems (ICDCS), Vienna, Austria, July 2002.
- ◇ **Outstanding Researcher Award** by the Department of Computer Science and Engineering at The Ohio State University, 2001-2002
- ◇ **Full scholarship for participation in Advanced School on Mobile Computing**, Pisa, Italy, September 2003. Organized by Scuola Normale Superiore and LIST Group.
- ◇ **Travel Awards** for attending:
 - BIRS Self-stabilization workshop, Banff, Canada, 2004
 - Advanced School on Mobile Computing, Pisa, Italy, 2003
 - Sixth Symposium on Self-Stabilizing Systems, San Francisco, USA, 2003
 - Seminar on Self-Stabilizing Systems, Luminy, France, 2002
 - International Conference on Distributed Computing Systems, Vienna, Austria, 2002
 - International Conference on Dependable Systems and Networks, Goteborg, Sweden, 2001
- ◇ **Turkish Government Fellowship**, 1998
- ◇ **Best Industrial Project Award for graduation project**, 1997
- ◇ **Ranked in the top 100 among 1.4 million examinees in Nation-wide University Entrance Examinations**, Turkey, 1993

PROFESSIONAL
MEMBER-
SHIPS AND
ACTIVITIES

- Program committee** for 4th International Workshop on Assurance in Distributed Systems and Networks (ADSN) 2005; International Conference on Parallel and Distributed Systems (ICPADS) 2005; IEEE 20th International Conference on Advanced Information Networking and Applications (AINA) 2006; IEEE International Symposium on Ubisafe Computing 2007; 6th International Workshop on Assurance in Distributed Systems and Networks (ADSN) 2007; IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC) 2007; First International Workshop on Protocols and Algorithms for Reliable and Data Intensive Sensor Networks (PARIS) 2007; 11th International Conference on Principles of Distributed Systems (OPODIS) 2007; IEEE International Conference on Communication (ICC) 2008; IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS) 2008; International Conference on Wireless Algorithms, Systems and Applications (WASA) 2008; IEEE/IFIP International Conference On Embedded and Ubiquitous Computing (EUC) 2008; 10th and 11th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS) 2008-2009; IEEE International Conference on Communication (ICC) 2009; 10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM) 2009; 34th IEEE Conference on Local Computer Networks (LCN) 2009; 18th International Conference on Computer Communications and Networks (ICCCN 2009); The 7th IEEE/IFIP International Conference on Embedded and Ubiquitous Computing (EUC-09); The Sixth International ICST Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine-09)
- ◇ **Journal referee for (among others):** ACM Distributed Computing, ACM Transactions on Embedded Computing Systems, ACM Transactions on Sensor Networks, Elsevier Ad Hoc Networks, Elsevier Computers and Electrical Engineering, Elsevier Theoretical Computer Science, IEEE Transactions on Parallel and Distributed Systems, IEEE Transactions on Computers, IEEE Transactions on Vehicular Technology, IEEE Communications Letters, Information Processing Letters, Journal of Parallel and Distributed Computing, Journal of Aerospace Computing, Information, and Communication, Journal of Systems and Software, SIAM Journal on Computing

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- ◇ **Panel member:** Second International IEEE WoWMoM Workshop on Autonomic Communications and Computing ACC 2006, The Sixth International Workshop on Assurance in Distributed Systems and Networks (ADSN2007), Junior Faculty Panel for Future Faculty Workshop at UB 2009.

DEPARTMENTAL SERVICE ◇ **Committee member:** Graduate Studies Committee (2005-06, 2006-07, 2007-08, 2008-09), Graduate Admissions Committee (2005-06, 2006-07), Colloquium Committee (2006-07, 2007-08), Distinguished Speaker Committee (2009-10)

COURSES TAUGHT ◇ **CSE 646:** Wireless Networking & Mobile Computing (*Fall 2009, Fall 2008, Spring 2008, Fall 2006, Fall 2005*) with a class of around 20 students.
◇ **CSE 4/586:** Distributed Systems (*Spring 2009*) with a class of 60 students.
◇ **CSE 4/589:** Modern Networking Concepts (*Fall 2007*) with a class of 120 students.
◇ **CSE 719/703:** Seminar on Wireless Sensor Networks (*Spring 2006, Spring 2007, Fall 2007, Fall 2008, Fall 2009*) with a class of around 20 students.
◇ **UE141:** Discovery Seminar on iPhone Programming (*Fall 2009*), Discovery Seminar on Wireless Sensor Networks (*Fall 2007*)

RESEARCH SUPERVISION ◇ **Ph.D.:** Xuming Lu (graduated Spring 09), Onur Soysal (RA supported by NSF CAREER), Murat Ali Bayir (RA supported by Navy), Ismail Bahadir Aydin (RA supported by Navy), Hanifi Gunes (RA supported by Navy), Yavuz Selim Yilmaz (TA), Zuhul Tepecik (Government sponsored), Serafettin Tasci (RA supported by NSF CSR)
◇ **M.S.:** Srivats Balakrishnan (with thesis), Ken Yian Chow, Abhijeet More, Krishnan Narayanan, Brian Parfitt, Pradeep Phatak, Youngwhan Song, ChiehShyan Wan, and many many more from CSE646 with the project option ...

GRANT SUPPORT ◇ **An In-network Collaboration and Coordination Framework for Wireless Sensor Actor Networks**
PI: Murat Demirbas
NSF CAREER Award, 2008, (CNS-0747209)
\$450,000 from 2008-2013
◇ **Efficient and resilient querying and tracking services for wireless sensor networks**
PI: Murat Demirbas
Office of Naval Research, 2009
\$510,000 from 2009-2012
◇ **Tool-Support for Producing High-Assurance and Reliable Software for Wireless Sensor Actor Networks**
PI: Murat Demirbas and coPI: Sandeep Kulkarni
NSF CSR
\$500,000 from 2009-2012.
◇ **Research Experiences for Undergraduates**
PI: Murat Demirbas
\$10,000 from 2008-2009

REFEREED BOOK CHAPTERS ◇ **1. Pursuer-Evader Tracking in Sensor Networks**
M. Demirbas, A. Arora, and M. Gouda
Sensor Network Operations, IEEE Press, Chapter 9, April 2006. (Cited by 8) (Conference version is cited by 54)

REFEREED
JOURNAL
PAPERS

- ◇ **1. A Line in the Sand: A Wireless Sensor Network for Target Detection, Classification, and Tracking**
A. Arora, P. Dutta, S. Bapat, V. Kulathumani, H. Zhang, V. Naik, V. Mittal, H. Cao, M. Demirbas, M. Gouda, Y. Choi, T. Herman, S. Kulkarni, U. Arumugam, M. Nesterenko, A. Vora, and M. Miyashita
Computer Networks (*Elsevier*) Volume 46, Issue 5, pages 605–634, December 2004. (cited by **260**)
- ◇ **2. Resettable Vector Clocks**
A. Arora, S. S. Kulkarni, and M. Demirbas
Journal of Parallel and Distributed Computing (JPDC), Volume 66, Issue 2, pages 221–237, February 2006. (Conference version is cited by **25**)
- ◇ **3. A Fault-Local Self-Stabilizing Clustering Service for Wireless Ad Hoc Networks**
M. Demirbas, A. Arora, V. Mittal, V. Kulathumani
IEEE Transactions on Parallel and Distributed Systems, Special Issue on Localized Communication and Topology Protocols for Ad Hoc Networks, Volume 17, Issue 9, Pages 912–923, September 2006. (cited by 8) (Conference version cited by 12, Workshop version cited by **22**)
- ◇ **4. The Impact of Data Aggregation on the Performance of Wireless Sensor Networks**
K. Akkaya, M. Demirbas, and S. Aygun
Journal of Wireless Communications and Mobile Computing, 8(2): 171-193, 2008.
- ◇ **5. An In-Network Querying Framework for Wireless Sensor Networks**
M. Demirbas, X. Lu, P. Singla.
IEEE Transactions on Parallel and Distributed Systems, 99(1), 2008.
- ◇ **6. A Lightweight Querying Service for Wireless Sensor Networks**
M. Demirbas, A. Arora, V. Kulathumani.
Theoretical Computer Science Journal, Elsevier, 410(6-7): 500-513, 2009. (cited by 3)
- ◇ **7. Consensus and collision detectors in radio networks**
G. Chockler, M. Demirbas, S. Gilbert, N. Lynch, C. Newport, and T. Nolte.
Distributed Computing (Springer), 21(1): 55–84, 2008. (Conference version cited by **43**)
- ◇ **8. Trail: A Distance-Sensitive Network Service for Distributed Object Tracking**
V. Kulathumani, A. Arora, M. Demirbas, M. Sridharan.
ACM Transactions on Sensor Networks (TOSN), 5(2): 1–40, 2009. (Conference version cited by 6)
- ◇ **9. ABC: A Simple Geographic Forwarding Scheme Capable of Bypassing Routing Holes in Sensor Networks**
TK. Lee, C. Qiao, M. Demirbas, J. Xu.
To appear in Ad Hoc Networks, Elsevier.

UNDER
SUBMISSION
TO JOURNALS

-
- ◇ **1. A Transactional Programming Framework for Wireless Sensor/Actor Networks**
M. Demirbas, O. Soysal, M. Hussein.
Submitted to the IEEE Transactions on Parallel and Distributed Systems, Minor revision.
 - ◇ **2. Discovering SpatioTemporal Mobility Profiles of Cellphone Users**
M. A. Bayir, M. Demirbas, N. Eagle.
Submitted to the Special Issue of Pervasive and Mobile Computing Journal on Human Behaviour in Ubiquitous Environments, Minor revision.
 - ◇ **3. Specification Based Design of Self-Stabilization**
M. Demirbas, A. Arora.
Submitted to the IEEE Transactions on Dependable and Secure Systems.

- ◇ **4. A Lightweight Soft-State Tracking Framework for Dense Mobile Ad Hoc Networks**
X. Lu, M. Demirbas.
Submitted to the Elsevier Pervasive and Mobile Computing Journal.
- ◇ **5. Coordinated Locomotion and Monitoring using Autonomous Mobile Sensor Nodes**
SK Yoon, O. Soysal, M. Demirbas, C. Qiao
Submitted to the IEEE Transactions on Parallel and Distributed Systems.
- ◇ **6. A Web Based Framework for Location Analysis of Smart Phone Users**
M. A. Bayir, M. Demirbas, A. Cosar.
Submitted to The Computer Journal.

-
- REFEREED CONFERENCE PAPERS
- ◇ **1. A Holistic Solution to the Pursuer Evader Tracking Problem.**
X. Lu, M. Demirbas, C. Qiao.
The 28th IEEE Symposium on Reliable Distributed Systems (SRDS), Sept 2009.
 - ◇ **2. TRACK ME! A Web Based Location Tracking and Analysis System for Smartphone Users**
M. A. Bayir, M. Demirbas, A. Cosar.
24th International Symposium on Computer and Information Sciences (ISCIS), Sept 2009.
 - ◇ **3. Discovering SpatioTemporal Mobility Profiles of Cellphone Users**
M. A. Bayir, M. Demirbas, N. Eagle.
The 10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), June 2009. (Acceptance rate =**24%**)
 - ◇ **4. A Plant-and-Play Wireless Sensor Network System for Gate Monitoring**
R. Sudhaakar, A. Sanzgiri, M. Demirbas, C. Qiao.
The 10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), June 2009. (Acceptance rate =**24%**)
 - ◇ **5. An Application of Specification-Based Design of Self-stabilization to Tracking in Wireless Sensor Networks**
M. Demirbas, A. Arora.
The 10th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), pages 203-217, Nov 2008. (Acceptance rate < 30%)
 - ◇ **6. A Lightweight Tracking Framework for Mobile Ad Hoc Networks**
X. Lu, M. Demirbas.
The 5th IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS), pages 359–364, Sept 2008. (Acceptance rate =**13%**)
 - ◇ **7. ABC: A Novel Integrated MAC and Routing Protocol for Wireless Ad Hoc Networks**
TK. Lee, C. Qiao, M. Demirbas, J. Xu.
17th IEEE International Conference on Computer Communications and Networks (ICCCN), Aug 2008. (Acceptance rate < 26%)
 - ◇ **8. Coordinated Locomotion of Mobile Sensor Networks**
SK Yoon, O. Soysal, M. Demirbas, C. Qiao
Fifth Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON), pages 126–134, June 2008. (Acceptance rate =**21%**)
 - ◇ **9. Transact: A Transactional Programming Framework for Wireless Sensor/Actor Networks**
M. Demirbas, O. Soysal, M. Hussain
IEEE/ACM International Conference on Information Processing in Sensor Networks (IPSN), 295–306, April 2008. (Acceptance rate =**19%**)

- ◇ **10. Singlehop Collaborative Feedback Primitives for Wireless Sensor Networks**
M. Demirbas, O. Soysal, M. Hussain.
IEEE INFOCOM 2008, pages 2047-2055. (Infocom acceptance rate is 29%.) (Cited by 5)
- ◇ **11. Data Salmon: A Greedy Mobile Basestation Protocol for Efficient Data Collection in Wireless Sensor Networks**
M. Demirbas, O. Soysal, and A. S. Tosun.
IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), pages 267–280, June 2007. (Acceptance rate <27%) (Cited by 5)
- ◇ **12. Distributed Quad-Trees for Spatial Querying in Wireless Sensor Networks**
M. Demirbas, X. Lu.
IEEE International Conference on Communication (ICC), pages 3325–3332, June 2007. (Acceptance rate <30%) (Cited by 4)
- ◇ **13. Trail: A Distance-Sensitive Network Service for Distributed Object Tracking**
V. Kulathumani, A. Arora, M. Demirbas, M. Sridharan.
European conference on Wireless Sensor Networks (EWSN), pages 83–100, January 2007. (Acceptance rate = **13%**) (cited by 6)
- ◇ **14. A Lightweight Querying Service for Wireless Sensor Networks**
M. Demirbas, A. Arora, V. Kulathumani.
International Conference on Principles of Distributed Systems (OPODIS), pages 242–257, December 2006. (acceptance rate = **13%**) (Cited by 3)
- ◇ **15. A MAC Layer Protocol for Priority-based Reliable Multicast in Wireless Ad Hoc Networks**
M. Demirbas and M. Hussain
Broadband Wireless Networking Symposium (BroadNets), October 2006. (Cited by 5)
- ◇ **16. Consensus and Collision Detectors in Wireless Ad Hoc Networks**
G. Chockler, M. Demirbas, S. Gilbert, C. Newport, and T. Nolte
ACM Symposium on Principles of Distributed Computing (PODC), pages 197–206, July 2005. (Acceptance rate=**23%**) (cited by **43**)
- ◇ **17. A Hierarchy-based Fault-local Stabilizing Algorithm for Tracking in Sensor Networks**
M. Demirbas, A. Arora, T. Nolte, and N. Lynch
International Conference on Principles of Distributed Systems (OPODIS), pages 299–315, December 2004. (Acceptance rate< 30%) (Cited by **26**, brief announcement version cited by 10)
- ◇ **18. Design and Analysis of a Fast Local Clustering Service for Wireless Sensor Networks**
M. Demirbas, A. Arora, V. Mittal, and V. Kulathumani
Invited paper at Broadband Wireless Networking Symposium (BroadNets), pages 700–709, October 2004. (Acceptance rate< 30%) (cited by 12, workshop version cited by **22**)
- ◇ **19. Peer-to-Peer Spatial Queries in Sensor Networks**
M. Demirbas and H. Ferhatosmanoglu
IEEE International Conference on Peer-to-Peer Computing (P2P), pages 32–39, September 2003. (Cited by **81**)
- ◇ **20. A Pursuer-Evader Game for Sensor Networks**
M. Demirbas, A. Arora, and M. Gouda
Symposium on Self-Stabilizing Systems (SSS), pages 1–16, June 2003. (Cited by **54**)
- ◇ **21. Introducing Middle School Girls to Fault Tolerant Computing**
P. A. G. Sivilotti and M. Demirbas
Technical Symposium on Computer Science Education (SIGCSE), pages 327-331, February 2003. (cited by 6)

◇ **22. Convergence Refinement**

M. Demirbas and A. Arora

Best paper at International Conference on Distributed Computing Systems (ICDCS), pages 589–597, July 2002. (acceptance rate=18%) (cited by 14)

◇ **23. Graybox Stabilization**

A. Arora, M. Demirbas, and S. S. Kulkarni

International Conference on Dependable Systems and Networks (ICDSN), pages 389–400, July 2001. (acceptance rate=35%) (cited by 12)

◇ **24. Resettable Vector Clocks**

A. Arora, S. S. Kulkarni, and M. Demirbas

ACM Symposium on Principles of Distributed Computing (PODC), pages 269-278, July 2000. (acceptance rate=27%) (cited by 25)

UNDER
SUBMISSION
TO CONFER-
ENCES

◇ **1. PRO: A Profile Based Routing Algorithm for Pocket Switched Networks**

M.A. Bayir and M. Demirbas.

Submitted to INFOCOM 2009.

◇ **2. Transactional Concurrency Control for Multihop Wireless Sensor Networks**

O. Soysal and M. Demirbas.

Submitted to INFOCOM 2009.

◇ **3. Data Spider: A Resilient Mobile Basestation Protocol for Efficient Data Collection in Wireless Sensor Networks**

O. Soysal, M. Demirbas.

Submitted to INFOCOM 2009.

◇ **4. Collisions lead to shallower decision trees**

J. Aspnes, M. Demirbas, R. O'Donnell, A. Rudra, S. Uurtamo.

Under submission.

REFEREED
WORKSHOP
PAPERS

◇ **1. iMAP: Indirect Measurement of Air Pollution with Cellphones** M. Demirbas, C. Rudra, A. Rudra, M. A. Bayir

International Workshop on Information Quality and Quality of Service for Pervasive Computing (in conjunction with IEEE PERCOM), March 2009

◇ **2. RoBcast: A Singlehop Reliable Broadcast Protocol for Wireless Sensor Networks** M. Demirbas, S. Balakrishnan

International Workshop on Assurance in Distributed Systems and Networks, June 2007.

◇ **3. A Transactional Framework for Programming Wireless Sensor/Actor Networks** M. Demirbas

Future Trends of Distributed Computing Systems (FTDCS), March 2007.

◇ **4. Position paper: High-Confidence Software Platforms for Cyber-Physical Systems** T. Herman and M. Demirbas

High-Confidence Software Platforms for Cyber-Physical Systems (HCSP-CPS) Workshop, November 2006.

◇ **5. A MAC Layer Protocol for Priority-based Reliable Broadcast in Wireless Ad Hoc Networks** M. Demirbas and M. Hussain

IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), Buffalo, NY, pages 447-449, June 2006.

◇ **6. An RSSI-based Scheme for Sybil Attack Detection in Wireless Sensor Networks** M. Demirbas and Y.W. Song

Advanced EXPerimental activities ON WIRELESS networks and systems (EXPONWIRELESS) Workshop (as part of WOWMOM 2006), Buffalo, NY, pages 564-570, June 2006. (cited by 17)

- ◇ **7. INSIGHT: Internet-Sensor Integration for Habitat Monitoring** M. Demirbas, K.Y. Chow, and C.S. Wan
Advanced EXPerimental activities ON WIRELESS networks and systems (EXPONWIRELESS) Workshop (as part of WOWMOM 2006), Buffalo, NY, pages 553-558, June 2006. (cited by 11)
- ◇ **8. A Middleware Framework for Robust Applications in Wireless Ad Hoc Networks** G. Chockler, M. Demirbas, S. Gilbert, and C. Newport
Forty-third Annual Allerton Conference on Communication, Control, and Computing, September 2005. (cited by 11)
- ◇ **9. Reconciling the Theory and Practice of (Un)Reliable Wireless Broadcast** G. Chockler, M. Demirbas, S. Gilbert, N. Lynch, C. Newport, and T. Nolte
International Workshop on Assurance in Distributed Systems and Networks, pages 42–48, June 2005. (cited by 9)
- ◇ **10. Brief announcement: STALK: A Self-Stabilizing Hierarchical Tracking Service for Sensor Networks**
M. Demirbas, A. Arora, T. Nolte, and N. Lynch
ACM Symposium on Principles of Distributed Computing (PODC), page 378, July 2004. (cited by 10)
- ◇ **11. FLOC: A Fast Local Clustering Service for Wireless Sensor Networks**
M. Demirbas, A. Arora, and V. Mittal
Workshop on Dependability Issues in Wireless Ad Hoc Networks and Sensor Networks (DIWANS/DSN), pages , June 2004. (cited by 22)

 INVITED
TALKS

- ◇ University of Texas at San Antonio, CS Seminar Series, November 2007
A Transactional Programming Framework for Wireless Sensor/Actor Networks
- ◇ University of Vermont, CSSA Seminar Series, Burlington, VT, April 2007
A Transactional Programming Framework for Wireless Sensor/Actor Networks
- ◇ US Japan Next Generation Buildings Workshop, Honolulu, HI, Feb 2007
Wireless Sensor Networks for Monitoring Next Generation Buildings
- ◇ Los Alamos National Labs, Los Alamos, NM, Sept 2006
Scalable Self-Healing in Wireless Sensor Networks
- ◇ Middle East Technical University, Computer Science & Engineering Department, Ankara, Turkey, May 2006
Scalable Tracking and Querying in Wireless Sensor Networks
- ◇ Bilkent University, Computer Science & Engineering Department, Ankara, Turkey, May 2006
Scalable Tracking and Querying in Wireless Sensor Networks

 CONFERENCE
PRESENTA-
TIONS &
ATTENDANCE

- ◇ The 10th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), Kos, Greece, June 2009.
- ◇ The 10th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS), Detroit, MI, Nov 2008.
- ◇ ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN) St. Louis, MI, April 2008.
- ◇ IEEE Infocom, Phoenix, AZ, April 2008.
- ◇ The Sixth International Workshop on Assurance in Distributed Systems and Networks (ADSN) (in conjunction with ICDCS) Toronto, CA, June 2007.

MURAT DEMIRBAS

- ◇ IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)
Santa Fe, NM, June 2007.
 - ◇ Future Trends of Distributed Computing Systems (FTDCS)
Sedona, AZ, March 2007.
 - ◇ International Conference on Principles of Distributed Systems (OPODIS)
Bordeaux, France, December 2006.
 - ◇ High-Confidence Software Platforms for Cyber-Physical Systems (HCSP-CPS) Workshop
Washington, DC, November 2006.
 - ◇ Broadband Wireless Networking Symposium (BroadNets)
San Jose, CA, October 2006.
 - ◇ IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks
Buffalo, NY, June 2006.
 - ◇ Joint Workshop on Cyber Security
Buffalo, NY, March 2006.
 - ◇ Networking of Sensor Systems (NOSS) Informational Meeting
Boston, MA, October 2005.
 - ◇ International Conference on Distributed Computing Systems (ICDCS)
Columbus, OH, June 2005.
 - ◇ Broadband Wireless Networking Symposium (BroadNets)
San Jose, CA, October 2004.
 - ◇ Third IEEE International Conference on Peer-to-Peer Computing (P2P)
Linköping, Sweden, September 2003.
 - ◇ Sixth Symposium on Self-Stabilizing Systems (SSS)
San Francisco, CA, June 2003
 - ◇ Seminar on Self-Stabilizing Systems (Invited presentation)
Luminy, France, October 2002
 - ◇ Network Embedded Systems Technology Meeting (DARPA)
Bar Harbor, ME, July 2002
 - ◇ International Conference on Distributed Computing Systems (ICDCS)
Vienna, Austria, July 2002
 - ◇ International Parallel and Distributed Processing Symposium (IPDPS)
Fort Lauderdale, FL, April 2002
 - ◇ International Conference on Dependable Systems and Networks (ICDSN)
Göteborg, Sweden, July 2001
 - ◇ Network Embedded Systems Technology Meeting (DARPA)
Napa, CA, June 2001
 - ◇ ACM Symposium on Principles of Distributed Computing (PODC)
Portland, OR, July 2000
-