

Recent Publications (2005-)

Journals

1. *Shared and Searchable Encrypted Data for Untrusted Servers*,
Dong C, Russello G, Dulay N,
Journal of Computer Security. 19(3), 367-397, 2011.
(SECURITY)
2. *A Policy-based Publish/Subscribe Middleware for Sense-and-React Applications*,
Russello G, Mostarda L, Dulay N,
Journal of Systems and Software, 84(4), 638-654, 2011.
(POLICY, UBIComp)
3. *Self-Management Framework for Mobile Autonomous Systems*,
Asmare E, Gopalan A, Sloman M, Dulay N, Lupu E
Journal of Network and Systems Management, May 2011.
(POLICY, DISTSYS)
4. *Providing Data Confidentiality Against Malicious Hosts in Shared Data Spaces*,
Russello G, Dong C, Dulay N, Chaudron M, Van Steen M,
Science of Programming Journal, 75(6): 426-439, 2010.
(SECURITY)
5. *Context-based Authentication and Transport of Cultural Assets*,
Mostarda L, Dong C, Dulay N,
Personal and Ubiquitous Computing Journal, 4:321-334, 2010.
(SECURITY, UBIComp)
6. *Locating Network Domain Entry and Exit point/path for DDoS Attack Traffic*,
Thing V, Sloman M, Dulay N,
IEEE Transactions on Network and Service Management, September 2009.
(SECURITY, NETWORKS)
7. *Policy Conflict Analysis for DiffServ Quality of Service Management*,
Charalambides M, Flegkas P, Pavlou G, Rubio-Loyola J, Bandara A, Lupu E, Russo A, Dulay N, Sloman M,
IEEE Transactions on Network and Service Management, March 2009.
(POLICY, NETWORKS)
8. *Reconfigurable Architecture for Network Flow Analysis*,
Yusuf S, Luk W, Sloman M, Dulay N, Lupu E, Brown G,
IEEE Transactions on Very Large Scale Integration Systems, Vol 16, No 1, January 2008.
(NETWORKS)
9. *AMUSE: Autonomic Management of Ubiquitous e-Health Systems*,
Lupu E, Dulay N, Sloman M, Sventek J, Heeps S, Strowes S, Keoh S.-L., Schaeffer-Filho A, Twidle K,
Concurrency and Computation Practice & Experience Journal, May 2007.
(UBIComp, POLICY)
10. *A Framework for Contextual Mediation in Mobile and Ubiquitous Computing Applied to Context-Aware Adaptation of Maps*,
Chalmers D, Dulay N, Sloman M, Personal and Ubiquitous Computing Journal, Vol 8, No 1, pp1-18, Feb 2004.
(UBIComp)

Conferences and Workshops

1. *Argumentation-based Fault Diagnosis for Home Networks*,
Dong C, Dulay N,
ACM SIGCOMM Workshop on Home Networks, August 2011.
(NETWORKING)
2. *Longitude: A Privacy-preserving Location Sharing Protocol for Mobile Applications*,
Dong C, Dulay N,
5th IFIP International Conference on Trust Management, June 2011.
(SECURITY)
3. *Rumpole: A Flexible Break-Glass Access Control Model*,
Marinovic S, Craven R, Ma J, Dulay N,
16th ACM Symposium on Access Control Models and Technologies, June 2011
(SECURITY)
4. *An Information Plane Architecture Supporting Home Network Management*,
Sventek J, Koliouisis A, Sharma O, Dulay N, et al
IFIP/IEEE International Symposium on Integrated Network Management, May 2011
(NETWORKING)
5. *Enhancing Traffic Intersection Control with Intelligent Objects*,
Ball R, Dulay N,
International Workshop the Urban Internet of Things 2010, Dec 2010. (MOBILE)
6. *Teleo-Reactive Policies for Managing Human-centric Pervasive Services*,
Marinovic S, Twidle K, Dulay N and Sloman M,
6th International Conference on Network and Service Management, Oct 2010.
(POLICY, DISTSYS)
7. *Predicting Human Behaviour from Selected Mobile Phone Data Points*,
Choujaa D, Dulay N,
10th ACM International Conference on Ubiquitous Computing, Sept 2010.
(UBICOMP)
8. *Exploiting Node Mobility for Coordinating Data Usage in Disaster Scenarios*,
Russello G, Scalavino E, Dulay N, Lupu E,
IEEE International Symposium on Policies for Distributed Systems and Networks, July 2010.
(POLICY, DISTSYS)
9. *Teleo-Reactive Policies in Ponder2*,
Twidle K, Marinovic S, Dulay N,
IEEE International Symposium on Policies for Distributed Systems and Networks, July 2010.
(POLICY, DISTSYS)
10. *An Architectural Framework for Analyzing Tradeoffs between Software Security and Performance*,
Cortellessa V, Trubiani C, Mostarda L, Dulay N,
International Symposium on Architecting Critical Systems, June 2010.
(SECURITY)
11. *Distributed Fault Tolerant Controllers*,
Mostarda L, Ball R, Dulay N,
10th IFIP International Conference on Distributed Applications and Interoperable Systems,
June 2010.
(DISTSYS)

12. *Shinren: Non-monotonic Trust Management for Distributed Systems*,
Dong C, Dulay N,
4th IFIP WG 11.11 International Conference on Trust Management, June 2010.
(POLICY)
 13. *Activity Recognition using Mobile Phones: Achievements, Challenges and Recommendations*,
Dong C, Dulay N,
Workshop on How To Do Good Research In Activity Recognition: Experimental methodology,
performance evaluation and reproducibility in conjunction with Pervasive 2010, May 2010.
(UBICOMP)
 14. *Distributed Orchestration of Pervasive Services*
Mostarda L, Marinovic S, Dulay N,
IEEE Intl Conference on Advanced Information Networking and Applications, April 2010.
(DISTSYS)
 15. *A State Machine-Based Approach for Reliable Adaptive Distributed Systems* .
Mostarda L, Sykes D, Dulay N,
IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous
Systems, March 2010. (DISTSYS)
 16. *Teleo-Reactive Workflows for Pervasive Healthcare*,
Marinovic S, Twidle K, Dulay N,
IEEE PerCom Workshop on Pervasive Healthcare, March 2010.
(UBICOMP, POLICY)
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17. *xDUCON: Coordinating Usage Control Policies in Distributed Domains*,
Russello G, Dulay N,
3rd Intl Conference on Network and Systems Security, October 2009.
(POLICY)
 18. *Routine Classification through Sequence Alignment*,
Choujaa D, Dulay N,
ACM Intl Conference on Multimedia, October 2009.
(UBICOMP)
 19. *Policies for Self Tuning Home Networks*,
Pediaditakis D, Mostarda L, Dong C, Dulay N,
10th IEEE Intl Symposium on Policies for Distributed Systems and Networks, July 2009.
(NETWORKS, POLICY)
 20. *xDUCON: Cross Domain Usage Control through Shared Data Spaces*,
Russello G, Dulay N,
10th IEEE Intl Symposium on Policies for Distributed Systems and Networks, July 2009.
(POLICY)
 21. *Adaptive Response System for Distributed Denial-of-Service Attacks*,
Thing V, Sloman M, Dulay N,
Best PhD Dissertation in Network and Service Management, IM 2009, June 2009.
(SECURITY, NETWORKS)
 22. *Activity Inference through Sequence Alignment*,
Choujaa D, Dulay N,
4th International Symposium on Location and Context Awareness, May 2009.
(UBICOMP)

23. *An Architectural Approach for Self-Managing Security Services*,
Russello G, Dulay N,
5th Intl Symposium on Frontiers of Information Systems and Network Applications, May 2009.
(SECURITY)
 24. *Approximating Travel Times using Opportunistic Networking*,
Ball R, Dulay N,
2nd IEEE Intl Workshop on Opportunistic Networking, May 2009.
(NETWORKS)
 25. *A Mission Management Framework for Unmanned Autonomous Vehicles*
Asmare E, Gopalan A, Sloman M, Dulay N, Lupu E,
2nd Intl Conference on Mobile Wireless Middleware, Operating Systems and Applications,
April 2009.
(POLICY, UBIComp)
 26. *Ponder2: A Policy System for Autonomous Pervasive Environments*,
Twidle K, Dulay N, Lupu E, Sloman M,
5th Intl Conference on Autonomic and Autonomous Systems, April 2009.
(POLICY, UBIComp)
 27. *Aligning Activity Sequences for Continuous Tracking of Cellphone Users*,
Choujaa D, Dulay N,
2nd IEEE Workshop on Intelligent Pervasive Devices, March 2009. (UBIComp)
 28. *A Policy-Based Management Architecture for Mobile Collaborative Teams*
Asmare E, Gopalan A, Sloman M, Dulay N, Lupu E,
7th IEEE Intl Conference on Pervasive Computing and Communications, March 2009.
(POLICY, UBIComp)
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29. *Towards Context-aware Face Anonymisation*,
Choujaa D, Dulay N,
7th Intl ACM Conference on Mobile and Ubiquitous Multimedia, December 2008.
(UBIComp, SECURITY)
 30. *TRAc'ME: Temporal Activity Recognition Using Mobile Phone Data*,
Choujaa D, Dulay N, Intl Conf on Embedded and Ubiquitous Computing, December 2008.
(UBIComp)
 31. *Using Screenplays as a Source of Context Data*,
Choujaa D, Dulay N, 2nd ACM Workshop on Story Representation, Mechanism and Context,
October 2008
(UBIComp)
 32. *ESCAPE: A Component-based Policy Framework for Sense and React Applications*,
Russello G, Mostarda L, Dulay N, 11th Intl Conference on Component-Based Software Engi-
neering, October 2008.
(POLICY, UBIComp)
 33. *Adaptable Pervasive Flows: An Emerging Technology for Pervasive Adaptation*,
Herrmann K, Rothermel K, Kortuem G, Dulay N, Workshop on Pervasive Adaptation, October
2008.
(UBIComp)

34. *GSpace: An Architectural Approach for Self-Managing Extra-Functional Concerns*,
Russello G, Dulay N, Chaudron M, Van Steen M, Workshop on Autonomous and Autonomic
Software-based Systems, October 2008.
(DISTSYS)
 35. *Flexible Resolution of Authorisation Conflicts in Distributed Systems*,
Dong C, Russello G, Dulay N, 19th IFIP/IEEE International Workshop on Distributed Systems
Operations and Management, Samos Island, Greece, Sept 2008.
(POLICY)
 36. *Finger: An Efficient Policy System for Body Sensor Networks*,
Zhu Y, Keoh S-L, Sloman M, Lupu E, Dulay N, Pryce N, 5th IEEE Intl Conference on Mobile
Ad-hoc and Sensor Systems, August 2008.
(POLICY, UBIComp)
 37. *Shared and Searchable Encrypted Data for Untrusted Servers*,
Dong C, Russello G, Dulay N, 22nd IFIP WG 11.3 Working Conference on Data and Appli-
cations Security, London, UK, July 2008.
(SECURITY)
 38. *Place and Time Authentication of Cultural Assets*,
Mostarda L, Dong C, Dulay N, 2nd Joint ITRUST and PST Conferences on Privacy, Trust
and Security, Trondheim, Norway, June 2008.
(SECURITY, UBIComp)
 39. *Encrypted Shared Data Spaces*,
Russello G, Dong C, Dulay N, Chaudron M, Van Steen M, Proceedings of 10th International
conference on Coordination Models and Languages, Oslo, Norway, June 2008.
(SECURITY)
 40. *A Consent-based Workflow System for Healthcare Systems*,
Russello G, Dong C, Dulay N, 9th IEEE Workshop on Policies for Distributed Systems and
Networks, New York, US, June 2008.
(POLICY)
 41. *Network Domain Entrypoint Determination for DDoS Attacks*,
Thing V, Sloman M, Dulay N, IEEE/IFIP Network Operations and Management Symposium,
April 2008.
(NETWORKS, SECURITY)
 42. *A Workflow-based Access Control Framework for Healthcare Applications*,
Russello G, Dong C, Dulay N, Proceedings of 4th International Symposium on Frontiers in
Networking with Applications, GinoWan, Okinawa, Japan, March 2008.
(POLICY)
 43. *Personalizing Situated Workflows for Pervasive Healthcare Applications*,
Russello G, Dong C, Dulay N, Proceedings of 2nd International Conference on Pervasive Com-
puting Technologies for Healthcare, Tampere, Finland, January 2008.
(POLICY, UBIComp)
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44. *Network Domain Entrypoint Determination for DDoS Attacks*,
Thing V, Sloman M, Dulay N, IEEE Workshop on Monitoring, Attack Detection and Mitiga-
tion, Toulouse, France, Nov 2007.
(NETWORKS, SECURITY)

45. *Secure Dynamic Community Establishment in Coalitions*,
Asmare E, Dulay N, Lupu E, Sloman M, Calo S, Jorge Lobo J, Military Communications Conference, Florida, USA, October 2007.
(POLICY)
 46. *A Policy-Based Framework for e-Health Applications*,
Russello G, Dong C, Dulay N, Singh J, Bacon J, Moody K, Proceedings of the UK e-Science All Hands Meeting 2007, Nottingham, UK, September 2007.
(POLICY)
 47. *Privacy-Preserving Credential Verification for Non-Monotonic Trust Management Systems*,
Dong C, Russello G, Dulay N, 5th Intl Conf on Mathematical Methods, Models and Architectures for Computer Networks Security, St Petersburg, Russia. Sept 2007.
(SECURITY)
 48. *Trust Transfer in Distributed Systems*,
Dong C, Russello G, Dulay N, Joint iTrust and PST Conference on Privacy, Trust Management and Security, New Brunswick, Canada. July 2007.
(SECURITY)
 49. *Towards Supporting Interactions between Self-Managed Cells*,
Schaeffer-Filho A, Lupu E, Dulay N, Keoh S, Twidle K, Sloman M, Heeps S, Strowes S, Sventek J, IEEE Intl Conference on Self-Adaptive and Self-Organizing Systems, Boston, USA, July 2007.
(UBICOMP)
 50. *Authorization and Conflict Resolution for Hierarchical Domains*,
Russello G, Dong C, Dulay N, 8th IEEE Workshop on Policies for Distributed Systems and Networks, Bologna, Italy. June 2007.
(POLICY)
 51. *Enforcing Fine-grained Authorization Policies for Java Mobile Agents*,
Russello G., Dong C, Dulay N, 3rd IEEE Intl Symposium on Security in Networks and Distributed Systems. Niagara Falls, Canada, May 2007.
(POLICY)
 52. *A Survey of Bots Used for Distributed Denial of Service Attacks*,
Thing V, Sloman M, Dulay N, 22nd IFIP TC-11 International Information Security Conference, Sandton, South Africa, May 2007.
(NETWORKS, SECURITY)
 53. *Policy-based Management for Body-Sensor Networks*,
Keoh S, Twidle K, Pryce N, Schaeffer-Filho A, Lupu E, Dulay N, Sloman M, Heeps S, Strowes S, Sventek J, Katsiri E, 4th Intl Workshop on Wearable and Implementable Body Sensor Networks. Aachen, Germany, March 2007.
(POLICY, UBICOMP)
 54. *Non-Intrusive IP Traceback for DDoS Attacks*,
Thing V, Lee H, Sloman M, Dulay N, ACM Symposium on Information, Computer and Communications Security, March 2007, Singapore.
(NETWORKS, SECURITY)
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55. *Privacy Preserving Trust Negotiation for Pervasive Healthcare*,
Dong C, Dulay N, Intl. Conf. on Pervasive Computing Technologies for Healthcare, Nov 2006.
(SECURITY)

56. *Fusing Multiple Sources of Context Data of the Same Context Type*, Huebscher M, McCann J, Dulay N, Intl Workshop on Smart Homes, Nov 2006. (UBICOMP)
57. *Issues in Developing Ubiomp Applications on Symbian Phones*, Huebscher M, Pryce N, Dulay N, Thompson P, Intl. Workshop on System Support for Future Mobile Computing Applications, Sept 2006. (UBICOMP)
58. *Policy Refinement for DiffServ Quality of Service Management*, Bandara A, Lupu E, Russo A, Dulay N, Sloman M, Flegkas P, Charalambides M, Pavlou G, eTransactions on Network and Service Management, Vol 2, Issue 2. (NETWORKS, POLICY)
59. *Autonomic Management of Ubiquitous Systems Meets the Semantic Web*, Heeps S, Dulay N, Schaeffer A, Lupu E, Sloman M and Sventek J, 2nd Int. Workshop on Semantic Web Technology for Ubiquitous and Mobile Applications, Trentino, Italy, Aug. 2006. (UBICOMP)
60. *An Event Service Supporting Autonomic Management of Ubiquitous Systems for e-Health*, Strowes S, Badr N, Dulay N, Heeps S, Lupu S, Sloman M, Sventek J, 5th Intl. Workshop on Distributed Event-Based Systems, July 2006. (UBICOMP)
61. *Dynamic Policy Analysis and Conflict Resolution for DiffServ Quality of Service Management*, Charalambides M, Flegkas P, Pavlou G, Rubio-Loyola J, Bandara A, Lupu E, Russo A, Sloman M, Dulay N, IFIP/IEEE Network Operations and Management Symposium, April 2006. (POLICY, NETWORKS)
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62. *Self-Managed Cells for Ubiquitous Systems*, Dulay N, Lupu E, Sloman M, Sventek J, Badwr N, Heeps S, 3rd Intl Conf. on Mathematical Methods, Models and Architectures for Computer Networks Security, St Petersburg, Russia, LNCS 3685, Sept 2005, (POLICY, UBIOMP)
63. *Self-Managed Cells and their Federation*, Sventek J, Badwr N, Dulay N, Heeps S, Lupu E, Sloman M, Intl. Workshop on Adaptive and Self-Managing Enterprise Applications, Porto, Portugal, June 2005. (UBICOMP)
64. *Policy Conflict Analysis for Quality of Service Management*, Charalambides M, Flegkas P, Pavlou G, Bandara A, Lupu E, Russo A, Dulay N, Sloman M, Rubio-Loyola J, Proc 6th IEEE Workshop on Policies for Distributed Systems and Networks, Stockholm, Sweden, June 2005. (POLICY)
65. *Policy Refinement for DiffServ Quality of Service Management*, Bandara A, Lupu E, Russo A, Dulay N, Sloman M, Flegkas P, Charalambides M, Pavlou G, 9th IFIP/IEEE Intl. Symp. on Integrated Management, Nice, France, May 2005. (POLICY)

Contributions to Books

1. *Capturing Patient Consent in Pervasive Healthcare Applications*,
Russello G, Dong C, Dulay N, Chapter in Mobile Health Solutions for Biomedical Applications,
Editors: Olla P, Tan J, IGI, Fall 2008.
(POLICY)
2. *Policy-based Management*,
Bandara A, Damianou N, Lupu E, Sloman M, Dulay N, Chapter in Handbook of Network and
System Administration, Editors: Bergstra J, Burgess M. Elsevier. Nov 2007.
(POLICY)

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That's all for now folks!