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- EDUCATION
- ◇ **Purdue University**, West Lafayette
May 2000, Ph.D. in Computer Science
Dissertation: *Contributions to distributed object systems and network agents*
Advisor: *Dan C. Marinescu*
 - ◇ **Purdue University**, West Lafayette
May 1999, M.Sc. in Computer Science
Thesis title: *Meta-programming environment*
 - ◇ **Technical University of Cluj-Napoca**, Romania
June 1993, Diploma Engineer in Computer Engineering
Graduation project: *A small-vocabulary speech recognition system*
- RESEARCH INTERESTS
- ◇ Cognitive architectures and story understanding.
 - ◇ Modeling and simulation of culture and society.
 - ◇ Human-robot interaction.
 - ◇ Agent based highway traffic simulation.
 - ◇ Teamwork and coalitions in embodied agents.
 - ◇ Autonomous agents.
 - ◇ Wireless ad hoc and sensor networks.
 - ◇ Distributed systems and grid computing.
 - ◇ Task scheduling and resource allocation.
- PROFESSIONAL SOCIETIES
- ◇ Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) since 2005, member since 1998.
 - ◇ Member of the IEEE Computer Society.
 - ◇ Member of the Technical Committee on Distributed Intelligent Systems of the IEEE Systems, Man and Cybernetics Society.
 - ◇ Member of the Association of Computing Machinery (ACM).
 - ◇ Member of the American Association for Artificial Intelligence (AAAI).
- AWARDS
- ◇ Won the first prize at the Romanian National Programming Contest of the students in 1990 (individual competition) and the third prize in 1991 and 1992 (with the team of the university).
 - ◇ Romanian Republican Scholarship in university year 1992-93 (awarded for one student in the department).
 - ◇ Scholarship of the Hungarian Academy of Science the university year 1994-95, spent at the Analogical and Neural Computing Laboratory at the Computers and Automation Institute of Hungarian Academy of Science, working in the domain of cellular neural networks.
 - ◇ Scholarship offered by Lucent Technologies for the university year 1998-99.

- ◇ Member of the Upsilon Pi Epsilon Computer Sciences Honor Society, Beta Chapter of Indiana.
- ◇ AAAI Deployed Application Award for the paper “NESTA: NASA Engineering Shuttle Telemetry Agent” by G.S. Semmel, S.R. Davis, K.W. Leucht, D.A. Rowe, K.E. Smith, and L. Bölöni at the AAAI-2005 conference, July 2005.
- ◇ NASA Software Award, August 2006 for the NASA Engineering Shuttle Telemetry Agent - NESTA.

WORK
EXPERIENCE

- ◇ **August 2008 - Present** Associate Professor, Dept. of Electrical Engineering and Computer Science, University of Central Florida.
- ◇ **August 2011 - December 2011** Visiting Academic, Imperial College, London, England.
- ◇ **August 2002 - August 2008** Assistant Professor, School of Electrical Engineering and Computer Science, University of Central Florida.
- ◇ **May 2000 - June 2002** CPlane Inc. Sunnyvale, Group manager, Architect for Infrastructure, Product Designer for Traffic Engineering
 - Designed and implemented the XML based messaging framework of the CPlane product (relying on CORBA communication).
 - Designed and implemented the Traffic Conditioning component.
 - Lead the development team in the implementation of the information manager component, and service scheduling component.
 - Designed the Traffic Engineering product (to support MPLS and optical network based transport).
- ◇ **May-August 1999** Internship at AT&T Labs, San Jose.
 - Working on a remote management system of a group of network routers.
 - Participated in a specification of an API for runtime reconfiguration of multiple network elements (continuing my work from the previous year), implemented the interface in CORBA and then ported it to four CORBA implementations (Visibroker, Orbix, MICO and OmniORB) as a project to evaluate their suitability for the specific task. One side result of this work was a document describing methodologies for writing implementation independent CORBA code.
- ◇ **May-July 1998** Internship at AT&T Labs, San Jose.
 - Working on the network management team of the Geoplex system. I have started the development of an interface for generic control of network elements (routers, ATM switches, traffic shaping/QoS devices) over the network.
- ◇ **1997-99** Research assistant at the Bond Lab, Purdue University, Computer Science Department
 - Research in distributed systems and autonomous agents.
- ◇ **1996-97** Teaching assistant at Purdue University, Computer Science Department
 - Assisting at the teaching of the classes of Computer Architectures in the Fall and Cryptography in the Spring semester.
- ◇ **1993-2000** Assistant Professor, Computer Engineering Department, Technical University of Cluj-Napoca, Romania (from 1996-2000 on leave).
 - Teaching classes in Computer Architecture and Networking.
- ◇ **1991-1996** Founder and administrator of Avantgarde Software LLC, Cluj-Napoca, Romania.
 - Managing a team of programmers implementing customized accounting, inventory management and employee management programs.

PUBLICATIONS ◇ **Books**

- [1] L. Bölöni. *Programming KDE 2.0*. CMP Books, 2000.
- [2] L. Bölöni and S. Kinebuchi. *Programming KDE 3.0 (in Japanese)*. SE Shoeisha, 2002.

◇ **Book chapters**

- [1] L. Bölöni, K.K. Jun, K. Palacz, R. Sion, and D.C. Marinescu. The Bond agent system and applications. In D. Kotz and F. Mattern, editors, *Agent Systems, Mobile Agents, and Applications, Lecture Notes on Computer Science, vol. 1882*, pages 99–112. Springer Verlag, 2000.
- [2] L. Bölöni and D. C. Marinescu. An object-oriented framework for building collaborative network agents. In H.N. Teodorescu, D. Mlynek, A. Kandel, and H.-J. Zimmerman, editors, *Intelligent Systems and Interfaces, International Series in Intelligent Technologies*, chapter 3, pages 31–64. Kluwer Publishing House, 2000.
- [3] D.C. Marinescu and L. Bölöni. A component-based architecture for problem solving environments. In R.F. Boisvert and E.N. Houstis, editors, *Computational science, mathematics and software*. Purdue University Press, West Lafayette, IN, USA, 2002.
- [4] L. Bölöni, M.A. Khan, X. Bai, G. Wang, Y. Ji, and D.C. Marinescu. Software engineering challenges for mutable agent systems. In *Software Engineering for Multi-Agent Systems II, Lecture Notes in Computer Science Vol 2940*, pages 149–167. Springer, 2004.
- [5] L. Bölöni and D.C. Marinescu. Adaptation and mutation in multi-agent systems and beyond. In *Design of Intelligent Multi-Agent Systems - Human Centeredness, Architectures, Learning and Adaptation*, pages 315–354. Springer, December 2004.
- [6] S. Ali, T.D. Braun, H.J. Siegel, A.A. Maciejewski, N. Beck, L. Bölöni, M. Maheswaran, A.I. Reuther, J.P. Robertson, M.D. Theys, and B. Yao. Characterizing resource allocation heuristics for heterogeneous computing systems. In *Advances in Computers: Volume 63: Parallel, Distributed, and Pervasive Computing*, pages 93–129. Elsevier, 2005.
- [7] X. Bai, H. Yu, G. Wang, Y. Ji, D.C. Marinescu, and L. Bölöni. Intelligent grids. In *Grid Computing: Software Environments and Tools*, pages 45–74. Springer, 2005.
- [8] L. Bölöni. Foreword. In Hong Lin, editor, *Architectural Design of Multi-Agent Systems: Technologies and Techniques*. Idea Group, 2006.
- [9] G. S. Semmel, K. E. Smith, and L. Bölöni. Nasa engineering shuttle telemetry agent. In *John F. Kennedy Space Center 2005 Annual Report*. National Aeronautics and Space Administration, 2006.
- [10] G.S. Semmel, S.R. Davis, K.W. Leucht, D.A. Rowe, K.E. Smith, and L. Bölöni. Monitoring agents for assisting NASA engineers with shuttle ground processing. In *Integrated Intelligent Systems for Engineering Design*, pages 305–324. IOS Press, 2006.
- [11] G. Wang, Y. Ji, D.C. Marinescu, D. Turgut, and L. Bölöni. Location- and power-aware protocols for wireless networks with asymmetric links. In E. Gelenbe, editor, *Computer System Performance Modeling in Perspective: A Tribute to the Work of Prof. Kenneth C. Sevcik (Advances in Computer Science and Engineering: Texts)*. Imperial College Press, 2006.
- [12] D. J. Kaup, R. Oleson, T. L. Clarke, L. Malone, and L. Bölöni. Social potential models for modeling traffic and transportation. In Ana L. C. Bazzan and Franziska Klügl, editors, *to appear as: Multi-Agent Systems for Traffic and Transportation*. 2008.
- [13] L.J. Luotsinen, J.N. Ekblad, T.R. Fitz-Gibbon, C. Houchin, J. Key, M.A. Khan, J. Lyu, J. Nguyen, R. Oleson, G. Stein, S. Vander Weide, V. Trinh, and L. Bölöni. *Comparing apples with oranges: evaluating twelve paradigms of agency*, pages 93–112. Springer LNAI, 2007.

◇ **Journal articles**

- [1] L. Bölöni. Neural dynamics of the Kohonen feature map applied in speech recognition. *Journal of Automation, Computers and Applied Mathematics*, 3(1), 1994.
- [2] L. Kék, Gy. Liszka, Á. Petrányi, Á. Zarándy, and L. Bölöni. Data handling on an analogic mammography diagnostic workstation. *Hungarian Oncology (Magyar Onkológia)*, 42:109–120, 1998.
- [3] K. Lotz, L. Bölöni, T. Roska, and J. Hámori. Hyperacuity in time: A CNN model of a time-coding pathway of sound localization. *IEEE Transactions on Circuits and Systems*, 46(8):994–1002, August 1999.
- [4] D.C. Marinescu and L. Bölöni. A component-based architecture for problem solving environments. *Mathematics and Computers in Simulation*, 54:279–293, 2000.
- [5] D.C. Marinescu, L. Bölöni, J.R. Rice, P. Tsompanopoulou, and E.A Vavalis. Agent-based scientific simulation and modeling. *Concurrency Practice and Experience*, 12(9):845–861, 2000.
- [6] T.D. Braun, H.J. Siegel, N. Beck, L. Bölöni, M. Maheswaran, A.I. Reuther, J.P. Robertson, M.D. Theys, B. Yao, D.A. Hensgen, and R.F. Freund. A comparison of eleven static heuristics for mapping a class of independent tasks onto heterogeneous distributed computing systems. *Journal of Parallel and Distributed Computing*, 6(61):810–837, June 2001.
- [7] D.C. Marinescu and L. Bölöni. Biological metaphors in the design of complex software systems. *Journal of Future Generation Computer Systems*, 17(4):345–360, 2001.
- [8] L. Bölöni and D.C. Marinescu. Robust scheduling of metaprograms. *Journal of Scheduling*, 5(5):395–412, September 2002.
- [9] M.A. Khan, S.K. Vaithianathan, K. Sivoncik, and L. Bölöni. Towards an agent framework for grid computing. *International Scientific Journal of Computing*, 2(3), 2003.
- [10] X. Bai, G. Wang, Y. Ji, G.M. Marinescu, D.C. Marinescu, and L. Bölöni. Coordination in intelligent grid environments. *Proceedings of the IEEE*, 93(3):613–630, 2005.
- [11] X. Bai, K. Sivoncik, D. Turgut, and L. Bölöni. Grid coordination with marketmaker agents. *International Journal of Computational Intelligence*, 3(2):153–160, 2006.
- [12] L. Bölöni, D. Turgut, and D. C. Marinescu. Task distribution with a random overlay network. *Future Generation Computer Systems (Elsevier)*, 22(6):676–687, 2006.
- [13] G.S. Semmel, S.R. Davis, K.W. Leucht, D.A. Rowe, K.E. Smith, and L. Bölöni. NESTA: NASA engineering shuttle telemetry agent. *AI Magazine*, 27(3):25–35, 2006.
- [14] G.S. Semmel, S.R. Davis, K.W. Leucht, D.A. Rowe, K.E. Smith, and L. Bölöni. Space shuttle ground processing with monitoring agents. *IEEE Intelligent Systems*, 21(1):68–73, Jan/Feb 2006.
- [15] L. Bölöni, M.A. Khan, and D. Turgut. Agent-based coalition formation in disaster response applications. *International Journal of Intelligent Control and Systems*, 12(2):107–117, 2007.
- [16] X. Bai, L. Bölöni, D. C. Marinescu, H. J. Siegel, R. A. Daley, and I-J. Wang. Utility and price based resource allocation models for large-scale distributed systems. *Journal of Parallel and Distributed Computing*, 68(2):182–199, 2008.
- [17] L. Bölöni, L. J. Luotsinen, J. N. Ekblad, T. R. Fitz-Gibbon, C. Houchin, J. Key, M. A. Khan, J. Lyu, J. Nguyen, R. Oleson, G. Stein, S. Vander Weide, and V. Trinh. A comparison study of 12 paradigms for developing embodied agents. *Software: Practice and Experience*, 38(3):259–305, 2008.

- [18] L. Bölöni and D. Turgut. Should I send now or send later? A decision-theoretic approach to transmission scheduling in sensor networks with mobile sinks. *Wireless Communications and Mobile Computing Journal (WCMC)*, 8(3):385–403, 2008.
- [19] G. Wang, D. Turgut, L. Bölöni, Y. Ji, and D. Marinescu. Improving routing performance through m-limited forwarding in power-constrained wireless networks. *Journal of Parallel and Distributed Computing (JPDC)*, 68:501–514, 2008.
- [20] G. Wang, D. Turgut, L. Bölöni, Y. Ji, and D.C. Marinescu. A MAC layer protocol for wireless networks with asymmetric links. *Ad Hoc Networks*, 6(3):424–440, May 2008.
- [21] J. Secretan, M. Lawson, and L. Bölöni. Efficient allocation and composition of distributed storage. *Journal of Supercomputing*, 47(3):286–310, March 2009.
- [22] G. Wang, L. Bölöni, D. Turgut, and D. Marinescu. Time-parallel simulation of wireless ad hoc networks with compressed history. *Journal of Parallel and Distributed Computing (JPDC)*, 69(2):168–179, February 2009.
- [23] G. Wang, D. Turgut, L. Bölöni, and D.C. Marinescu. Time-parallel simulation of wireless ad hoc networks. *ACM/Springer Journal of Wireless Networks (WINET)*, 15(4):463–480, 2009.
- [24] Y. Luo and L. Bölöni. Analyzing and exploiting the competitiveness of scenarios for negotiating convoy formation under time constraints. *Multiagent and Grid Systems - an International Journal*, 6:415–435, December 2010. Special Issue of Advances in Agent-mediated Automated Negotiations.
- [25] V. Pryyma, L. Bölöni, and D. Turgut. Active time scheduling for rechargeable sensor networks. *Computer Networks (Elsevier)*, 54(4):631–640, March 2010.
- [26] L. Bölöni. Xapagy: a cognitive architecture for narrative reasoning. *preprint*, arXiv:1105.3486v1, 2011.
- [27] A. Boukerche, B. Turgut, N. Aydin, M.Z. Ahmad, L. Bölöni, and D. Turgut. Routing protocols in ad hoc networks: a survey. *Computer Networks*, 55(13):3032–3080, September 2011.
- [28] M. A. Khan, D. Turgut, and L. Bölöni. Optimizing coalition formation for tasks with dynamically evolving rewards and nondeterministic action effects. *Journal of Autonomous Agents and Multi-Agent Systems*, 22(3):415–438, 2011.
- [29] D. Turgut and L. Bölöni. Heuristic approaches for transmission scheduling in sensor networks with multiple mobile sinks. *The Computer Journal*, 54(3):332–344, March 2011.
- [30] S. A. Khan, V. Thakore, A. Behal, L. Bölöni, and J. J. Hickman. Comparative analysis of system identification techniques for nonlinear modeling of the neuron-microelectrode junction. *submitted to Journal of Computational and Theoretical Nanoscience*, 2012.

◇ **Refereed conference articles**

- [1] L. Bölöni. CNN model for illusory contour detection in primate cerebral cortex. In *Second Hungarian Vision Conference*, 1995.
- [2] K. Lotz, L. Bölöni, T. Roska, and J.Hámori. A cellular neural network model of the time-coding pathway of sound localization-hyperacuity in time. In *Proceedings of the IEEE International Conference on Neural Networks, volume II.*, pages 670–675, June 1996.
- [3] T.D. Braun, H.J. Siegel, N. Beck, L. Bölöni, R. F. Freund, D. Hensgen, M. Maheshwaran, A.I. Reuther, J.P. Robertson, M.D. Theys, and B. Yao. A taxonomy for describing matching and scheduling heuristics for mixed-machine heterogeneous computing systems. In *Proceedings of the 17th IEEE Symposium on Reliable Distributed Systems*, page 330, October 1998.

- [4] D.C. Marinescu, L. Bölöni, R. Hao, and K.K. Jun. An alternative model for scheduling on a computational grid. In *Proceedings of ISCIS'98, the Thirteenth International Symposium on Computer and Information Sciences*, pages 473–480. IOP Press, 1998.
- [5] L. Bölöni, R. Hao, K.K. Jun, and D.C. Marinescu. Structural biology metaphors applied to the design of a distributed object system. In *Proceedings of 13th International Parallel Processing Symposium and 10th Symposium on Parallel and Distributed Processing - the Second Workshop on Biologically Inspired Solutions to Parallel Processing Problems*, pages 275–283. Springer, April 1999.
- [6] L. Bölöni and D.C. Marinescu. Robust scheduling of metaprograms. In *Proceedings of 8-th Heterogeneous Computing Workshop HCW'99*, pages 146–155. IEEE Computer Society, April 1999.
- [7] L. Bölöni and D.C. Marinescu. Three theorems on robustness of metaprogram schedules. In *Proc. ACM International Conference on Supercomputing (ICS'99) Workshop on Scheduling Algorithms for Parallel/Distributed Computing*, pages 1–6. IEEE Press, June 1999.
- [8] T.D. Braun, H.J. Siegel, N. Beck, L. Bölöni, R. F. Freund, D. Hensgen, M. Maheshwaran, A. I. Reuther, J. P. Robertson, M.D. Theys, and B. Yao. A comparison study of static mapping heuristics for a class of meta-tasks on heterogeneous computing systems. In *Proceedings of 8-th Heterogeneous Computing Workshop HCW'99*, pages 15–23, April 1999.
- [9] R. Hao, L. Bölöni, K.K. Jun, and D.C. Marinescu. An aspect-oriented approach to distributed object security. In *Proceedings of the Fourth IEEE Symposium on Computers and Communications ISCC'99*, pages 23–31. IEEE Press, July 1999.
- [10] P. Tsompanopolou, L. Bölöni, D.C. Marinescu, and J.R. Rice. The design of software agents for a network of PDE solvers. In *Proceedings of the Workshop of Agents for Problem Solving Applications at the Third International Conference on Autonomous Agents (Agents-1999)*, May 1999.
- [11] L. Bölöni, R. Hao, K.K. Jun, and D.C. Marinescu. An object-oriented approach for semantic understanding of messages in a distributed object system. In *Proceedings of the International Conference on Software Engineering Applied to Networking and Parallel/ Distributed Computing (SNPD'00)*, May 2000.
- [12] L. Bölöni and D.C. Marinescu. Agent surgery: The case for mutable agents. In *Proceedings of the Third Workshop on Bio-Inspired Solutions to Parallel Processing Problems (BioSP3)*, May 2000.
- [13] L. Bölöni and D.C. Marinescu. A component agent model - from theory to implementation. In *Proceedings of the Second International Symposium From Agent Theory to Agent Implementation, in Proc. Cybernetics and Systems, Austrian Society of Cybernetic Studies*, pages 633–639, March 2000.
- [14] L. Bölöni and D.C. Marinescu. A multi-plane state machine agent model. In *Proceedings of Fourth International Conference on Autonomous Agents (AGENTS 2000)*, pages 80–81. ACM Press, May 2000.
- [15] K.K. Jun, L. Bölöni, K. Palacz, and D.C. Marinescu. Agent-based resource discovery. In *9th Heterogeneous Computing Workshop HCW'00*, pages 43–52, May 2000.
- [16] K.K. Jun, L. Bölöni, D. Yau, and D.C. Marinescu. Intelligent QoS Support for an Adaptive Video Service. In *Proceeding of IRMA 2000 - Challenges of Information Technology Management in the 21st Century*, pages 1096–1098. Idea Group Pub., May 2000.
- [17] R. Sion and L. Bölöni. Microservers. In *Proceedings of the Evolutionary Intelligent Agents Special Session of the 2000 Congress on Evolutionary Computation*, July 2000.

- [18] L. Bölöni, M.A. Khan, X. Bai, G. Wang, Y. Ji, and D.C. Marinescu. Software engineering challenges for mutable agent systems. In C.J. Pereira de Lucena, A.F. Garcia, A.B. Romanovsky, J. Castro, and P.S.C. Alencar, editors, *Software Engineering for Multi-Agent Systems II, Research Issues and Practical Applications*, volume 2940 of *Lecture Notes in Computer Science*, pages 149–166. Springer, May 2003.
- [19] M.A. Khan, S.K. Vaithianathan, K. Sivoncik, and L. Bölöni. Towards an agent framework for grid computing. In *Proceedings of CIPC-03 Second International Advanced Research workshop on Concurrent Information Processing and Computing*, July 2003.
- [20] D.C. Marinescu, G.M. Marinescu, Y. Ji, L. Bölöni, and H.J. Siegel. Ad hoc grids: Communication and computing in a power constrained environment. In *Proceedings of the 22nd IEEE International Performance, Computing and Communications Conference*, pages 113–122, April 2003.
- [21] L. Bölöni. From the philosophy of personal identity to the laws of agent societies. In *Proceedings of the Fourth International Symposium From Agent Theory to Agent Implementation at the 17th European Meeting on Cybernetics and Systems Research (EMCSR 2004)*, April 2004.
- [22] L. Bölöni, P. DeJung, and D. Turgut. Agents with non-anthropomorphic lifecycles. In *Proceedings of the Workshop on Intelligent Agent Architectures at AAAI-2004*, pages 34–38, August 2004.
- [23] L. Bölöni and D. Turgut. Partial merging of semi-structured knowledgebases. In M.Gh. Negoita, R.J. Howlett, and L.C. Jain, editors, *Proceedings of the 8th International Conference on Knowledge-Based Intelligent Information and Engineering Systems KES 2004, Part II*, volume 3214 of *Lecture Notes in Computer Science*, pages 1121–1127. Springer, September 2004.
- [24] M.A. Khan, D. Turgut, and L. Bölöni. Computer persona: a user interaction architecture for mobile environments. In *Proceedings of the Vehicular Technology Conference VTC Spring 2004*, April 2004.
- [25] T. Kocak and L. Bölöni. Highly distributed resource discovery and allocation in the grid. In *Proceedings of the IEEE Midwest Symposium on Circuits and Systems*, volume II, pages 525–528, July 2004.
- [26] L. J. Luotsinen, A. J. Gonzalez, and L. Bölöni. Collaborative UAV exploration in hostile environments. In *Proceedings of the 24th, Army Science Conference, Orlando FL*, November 2004.
- [27] M. Zipparo, D. Turgut, and L. Bölöni. A survey of merging techniques and tools for ontologies. In H.R. Arabnia, editor, *Proceedings of the International Conference on Information and Knowledge Engineering*, pages 322–326, June 2004.
- [28] J. Ai, D. Turgut, and L. Bölöni. A cluster-based energy balancing scheme in heterogeneous wireless sensor networks. In P. Lorenz and P. Dini, editors, *Proceedings of the 4th International Conference on Networking ICN'05*, volume 3420 of *Lecture Notes in Computer Science*, pages 467–474, April 2005.
- [29] L. Bölöni and D. Turgut. YAES - a modular simulator for mobile networks. In *Proceedings of the 8-th ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems MSWIM 2005*, pages 169–173, October 2005.
- [30] L. Bölöni, D. Turgut, T. Kocak, Y. Ji, and D. C. Marinescu. Rapid distribution of tasks on a commodity grid. In *Lecture Notes in Computer Science, LNCS 3470, Advances in Grid Computing - EGC 2005*, pages 721–730. Springer, February 2005.
- [31] L. Bölöni, D. Turgut, and D. C. Marinescu. n-Cycle: a set of algorithms for task distribution on a commodity grid. In *IEEE International Symposium on Cluster Computing and the Grid CCGrid 2005*, May 2005.

- [32] P. Esfandiari, G. Bernstein, P. Fay, W. Porod, B. Rakos, Zarándy, B. Berland, L. Bölöni, G. Boreman, B. Lail, B. Monacelli, and A. Weeks. Tunable antenna-coupled metal-oxide-metal (MOM) uncooled IR detector. In *Proceedings of SPIE 5783 - Infrared Technologies and Applications XXXI*, volume SPIE-5783, pages 470–482, 2005.
- [33] M.A. Khan and L. Bölöni. Convoy driving through ad-hoc coalition formation. In *Proceedings of IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS), San Francisco, California*, pages 98–105, Los Alamitos, CA 90720-1314, March 2005. IEEE Computer Society Technical Committee on Real-Time Systems, IEEE Computer Society Press.
- [34] L.J. Luotsinen, J.N. Ekblad, A.S. Wu, A. Gonzalez, and L. Bölöni. A two-stage genetic programming approach for non-player characters. In *FuturePlay 2005 online proceedings* http://www.futureplay.org/papers/paper-181_luotsinen.pdf, October 2005.
- [35] G.S. Semmel, S.R. Davis, K.W. Leucht, D.A. Rowe, A.O. Kelly, and L. Bölöni. Launch commit criteria monitoring agent. In *4th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2005)*, pages 3–10, New York, NY, USA, July 2005. Association for Computing Machinery.
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- [37] X. Bai, L. Bölöni, D.C. Marinescu, H.J. Siegel, R.A. Daley, and I-J. Wang. Are utility, price, and satisfaction resource allocation models suitable for large-scale distributed systems? In H-Y Lee and S. Miller, editors, *3rd International Workshop on Grid Economics and Business Models, GECON 2006*, pages 113–122, May 2006.
- [38] X. Bai, L. Bölöni, D.C. Marinescu, H.J. Siegel, R.A. Daley, and I-J. Wang. A brokering framework for large-scale distributed systems. In *15th Heterogeneous Computing Workshop HCW-06*, April 2006.
- [39] L. Bölöni, M.A. Khan, and D. Turgut. Agent-based coalition formation in disaster response applications. In *Proceedings of the IEEE Workshop on Distributed Intelligent Systems*, pages 259–264, June 2006.
- [40] L. Bölöni, D. Turgut, G. Wang, and D.C. Marinescu. Challenges and benefits of time-parallel simulation of wireless ad hoc networks. In *Proceedings of First International Conference on Performance Evaluation Methodologies and Tools (Valuetools-2006)*, October 2006.
- [41] M. A. Khan and L. Bölöni. Negotiation-based coalitions in the physical world. In P. Stone and G. Weiss, editors, *Fifth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS-2006)*, pages 411–413, May 2006.
- [42] L.J. Luotsinen, J.N. Ekblad, T.R. Fitz-Gibbon, C. Houchin, J. Key, M.A. Khan, J. Lyu, J. Nguyen, R. Oleson, G. Stein, S. Vander Weide, V. Trinh, and L. Bölöni. Comparing apples with oranges: evaluating twelve paradigms of agency. In R.H. Bordini, M. Dastani, J. Dix, and A.F. Segrouchni, editors, *Fourth international Workshop on Programming Multi-Agent Systems (PROMAS-2006)*, pages 51–65, May 2006.
- [43] D. Turgut, O. Ozyer, K. Hua, and L. Bölöni. Energy-efficient dissemination in sensor networks: Reactive event flow shaping. In *Proceedings of the International Conference on Wireless Networks (ICWN-2006)*, June 2006.
- [44] D. Turgut, G. Wang, L. Bölöni, and D.C. Marinescu. Speedup-precision tradeoffs in time-parallel simulation of wireless ad hoc networks. In *Proceedings of Tenth IEEE*

International Symposium on Distributed Simulation and Real Time Applications (DS-RT), pages 265–268, October 2006.

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- [63] B. White and L. Bölöni. A system for monitoring and interpreting team actions of embodied agents. In *demoed at AAMAS 2009*, May 2009.
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- [66] L. Bölöni. An investigation into the utility of episodic memory for cognitive architectures. In *AAAI Fall Symposium on Advances in Cognitive Systems*, November 2011.
- [67] L. Bölöni and D. Turgut. Protecting bridges: reorganizing sensor networks after catastrophic events. In *Proc. of the 7th International Wireless Communications and Mobile Computing Conference (IWCMC-2011)*, pages 2028–2033, July 2011.
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- [70] Y. Luo and L. Bölöni. Modeling lane preferences in agent-based multi-lane highway simulation. In *Proc. of 26th International Symposium on Computer and Information Sciences (ISCIS-2011)*, pages 263–268, October 2011.
- [71] L. Bölöni. The spanish steps flower scam - agent-based modeling of a complex social interaction. In *to appear in Proc. of 11th Int. Conf. on Autonomous Agents and Multiagent Systems (AAMAS 2012)*, Jun 2012.
- [72] D. Turgut and L. Bölöni. A pragmatic value-of-information approach for intruder tracking sensor networks. In *to appear in Proc. of IEEE Int. Conf. on Communications (ICC-2012)*, June 2012.

◇ **h-index: 16, g-index: 40**

TALKS

◇ **Invited talks, panels**

- Guest seminar: “Agent-based modeling of a complex social interactions”, FOI Swedish Institute of Defense, Stockholm, Sweden, September 2011.
- Guest seminar: “The utility perspective on wireless sensor networks”, at Naval Research Laboratory (NRL), Washington DC, October 2008.
- Guest seminar: “Role-Based Teamwork Activity Recognition in Observations of Embodied Agent Actions,” at Kadir Has University, Turkey, June 2008.
- Guest seminar: “Role-Based Teamwork Activity Recognition in Observations of Embodied Agent Actions,” at Technical University of Cluj-Napoca, Romania, June 2008.
- Invited presentation: “Creating a set of sample documents for the OpenDocument specification”, aKademy-2006 - Shaping the future of the free desktop, Trinity College Dublin, September 2006.
- The present and future of multi-agent architectures. Panel Discussion - Software Engineering for Large-Scale Multi-Agent Systems (SELMAS-2005).

SERVICE

◇ **Journals**

- Associate editor, International Journal of Parallel, Emergent and Distributed Systems, Taylor and Francis.
- IEEE Transactions on Parallel and Distributed Systems (2006, 2007, 2008, 2010).
- Journal of Parallel and Distributed Computing - JPDC (2005, 2007).
- IEEE Transactions on Systems, Man and Cybernetics, Part A (2004, 2006, 2007, 2008, 2009, 2011).
- IEEE Transactions on Systems, Man and Cybernetics, Part B (2006, 2007).
- IEEE Transactions on Computers (2009, 2010)
- Ad Hoc Networks Journal, Elsevier (2007).
- Pervasive and Mobile Computing, Elsevier (2009)
- Distributed and Parallel Databases Journal (2006).
- Software Practice and Experience (2005).
- Journal of Computers and Electrical Engineering (2005).
- International Journal of Knowledge-Based & Intelligent Engineering Systems (KES Journal) (2005, 2008, 2009).
- Future Generation Computer Systems Journal (2008, 2009, 2010).
- International Journal of Agent Oriented Software Engineering (IJAOSE) (2009)
- SENSORS Journal (MDPI) (2009)
- Mobile Networks and Applications (2011)

◇ **Conferences**

- Local arrangements chair, First International Conference on Multimedia Services Access Networks, Orlando FL, June 13-15, 2005.
- Third International Workshop on Software Engineering for Large-scale Multi-agent Systems (SELMAS-2004) included in the International Conference on Software Engineering (ICSE-2004), Edinburgh, Scotland, May 23-28, 2004.

- Workshop co-chair: Special Session: Knowledge Management for the Intelligent Grid KES'2004 8th International Conference on Knowledge-Based Intelligent Information & Engineering Systems
- 3rd Workshop on Ambient intelligence at the Fourth International Joint Conference on Autonomous Agents & Multi-Agent Systems (AAMAS 2005) Utrecht, The Netherlands, July 25-26, 2005
- Applied Computing 2006 conference.
- Workshop co-chair: Special Session: Knowledge Management for the Intelligent Grid 10th International Conference on Knowledge-Based Intelligent Information & Engineering Systems (KES-2006), Bournemouth, United Kingdom, October 9-11, 2006.
- 2nd International Conference on Intelligent Computer Communication and Processing (ICCP-2006), Cluj-Napoca, Romania, September 1-2, 2006.
- IADIS International Conference of Wireless Applications and Computing 2007 Lisbon, Portugal, July 6-8, 2007.
- Special track on Contextual Reasoning at the 2007 FLAIRS Conference, Key West, Florida, May 7-9, 2007.
- 3rd International Conference on Intelligent Computer Communication and Processing (ICCP-2007), Cluj-Napoca, Romania, September 6-8, 2007.
- First International Workshop on Mobile and Ubiquitous Context Aware Systems and Applications (MUBICA 2007), In conjunction with the 4th Annual Int. Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, Philadelphia, August 6, 2007.
- International Conference on Complex Open Distributed Systems (CODS-2007).
- IEEE SMC International Conference on Distributed Human-Machine Systems (DHMS-2008).
- 2nd International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS-2007), Budapest, Hungary, December 10-12, 2007.
- International Joint Conference on Biomedical Engineering Systems and Technologies (BIOSTEC-2008).
- International Instrumentation & Measurement Technology Conference (I2MTC-2008), May 12-15, 2008, Victoria, BC, Canada.
- 4-th International Workshop on Sensor Networks and Systems for Pervasive Computing, to be held in conjunction with IEEE Percom 2008, March 17-21, 2008, Hong Kong.
- 2008 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2008), Oct. 2008, Singapore.
- 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom2008), November 13 - 16, 2008, Orlando, Florida, USA.
- Local Arrangements Chair of the 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom2008), November 13 - 16, 2008, Orlando, Florida, USA.
- Third International Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS 2008), Nov 25-28th, 2008, Awaji Island, Japan.
- 2008 IEEE International Conference on Intelligent Computer Communication and Processing (ICCP'08), August 28-30, 2008, Cluj-Napoca, Romania.
- 5-th International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSens'2009) in conjunction with PERCOM 2009 March 9-13, 2009 Galveston, Texas.

- International Instrumentation and Measurement Technology Conference (I2MTC 2009).
- 2nd International Workshop on Agent-mediated, Complex Automated Negotiation (ACAN'09), part of AAMAS'09, Budapest, May 2009.
- 30th IEEE Real-Time Systems Symposium (RTSS 2009), December 1 - 4, 2009 Washington, D.C., USA
- The 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2009), Crystal City, Washington D.C., USA, November 11-14, 2009
- 2009 International Conference on Intelligent Computer Communication and Processing (ICCP-2009), Cluj-Napoca, Romania, August 27-29, 2009.
- Sixth IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS 2010), Mannheim, Germany, March 29-April 2, 2010.
- 12th International Conference on Principles of Practice in Multi-Agent Systems, Nagoya, Japan, Dec 13 - 16, 2009.
- 8th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA), Hammamet, Tunisia, May 16-19th, 2010.
- International Instrumentation and Measurement Technology Conference (I2MTC 2010).
- 7th International Symposium "From Agent Theory to Agent Implementation" (AT2AI-7).
- 2010 Wireless Applications and Computing (WAC 2010) Conference.
- 2010 Workshop on Optimization in Multi-Agent Systems (OptMAS-10)
- 2010 International Conference on Intelligent Computer Communication and Processing (ICCP-2010), Cluj-Napoca, Romania, August 26 - 28, 2010.
- IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS 2011), Seattle, March 21-25, 2011.
- IEEE International Conference on Systems, Man and Cybernetics - SMC-2011, Anchorage, Alaska, Oct 9-12, 2011.
- Wireless Sensor Networks: theory and practice - WSN-2011, Paris - France, February 7-10, 2011.
- Workshop on Challenges in Resource Constrained Systems, to be held in conjunction with the CTS 2011 Conference (Philadelphia, May 23-27, 2011).
- Program Committee member and workshop co-chair, 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing - CollaborateCom 2011 (Orlando, October 2011).
- Fourth International Workshop on Optimisation in Multi-Agent Systems (OptMas-2011).
- Local arrangements chair, The 14th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM 2011), October 31- November 4, 2011 Miami Beach, FL, USA.
- 2011 International Conference on Intelligent Computer Communication and Processing (ICCP-2011), Cluj-Napoca, Romania, August 25 - 27, 2011.
- 17th IEEE International Conference on Networks (ICON-2011), Singapore, December 14-16, 2011.
- 8th IEEE International Workshop on Sensor Networks and Systems for Pervasive Computing (PerSeNS 2012), Lugano, Switzerland, March 19-23, 2012.

- 5th Agent-based Complex Automated Negotiations Workshop (ACAN 2012), Valencia, Spain, June 2012.

◇ **Research proposal review panels**

- Subject Matter Expert, NIH SBIR Robotics applications, March 2011.
- Panelist for NSF SBIR/STTR Phase 2, March 2011
- Panelist for NSF SBIR/STTR Browsers, Multi-Media, Frameworks, Authoring Systems, February 2011
- Panelist for NSF SBIR/STTR Entrepreneurship Education program, September 2010.
- Panelist for NSF SBIR/STTR Entrepreneurship Education program, February 2010.
- Panelist for NSF SBIR/STTR Education program, August 2009.
- Panelist for NSF SBIR/STTR Education program, February 2009.
- Panelist for NSF SBIR/STTR Education program, September 2008.
- Panelist for NSF SBIR/STTR Human-Computer Interaction program, August 2007.
- Panelist for NSF SBIR/STTR Human-Computer Interaction program, February 2007.
- Panelist for NSF SBIR/STTR Human-Computer Interaction program, August 2006.
- Panelist for NSF Computer Research Infrastructure, CRI05-subpanel 8, November 2005.
- Reviewer for the NASA Intelligent Systems - phase II, 2003.

◇ **Panels**

- SELMAS-2005 panel on the present and future of multi-agent architectures.

◇ **Department and college level committees**

- Member, teaching incentive (TIP) award committee, College of Engineering and Computer Science, 2002-2003.
- Member, graduate committee, Electrical and Computer Engineering Dept., University of Central Florida, 2002-2003 and 2003-2004.
- Member, faculty search committee, Electrical and Computer Engineering Dept, University of Central Florida, 2004-2005.
- Member, faculty search committee, School of Electrical Engineering and Computer Science, University of Central Florida, 2006-2007.
- Member, Curriculum Oversight and Review (COR) committee for the EE program.
- Chair, Technical Reports Committee, School of Electrical Engineering and Computer Science, University of Central Florida, 2009-current.
- Member, Strategic Planning Committee, School of Electrical Engineering and Computer Science, University of Central Florida, 2009-current.
- Member, Dept of EECS Computer Science Curriculum Oversight and Review Committee, 2010-current.

FUNDING

◇ **Funded:**

- Learning Teamwork from Observation - follow up funding, US Army Research Laboratory, \$75,000, PI on a subproject of the larger project "SUS: Team performance in human-agent collaboration", Oct 2007–Oct. 2008, funded.
- HCC: Learning Teamwork from Observation, NSF Intelligent and Information Systems division, \$375,097, PI, my share \$187,548, Sept. 2007–Aug. 2010, funded.

- Learning Teamwork from Observation, US Army Research Laboratory, \$94,783, PI on a subproject of the larger project “SUS: Team performance in human-agent collaboration”, Sept. 2006–Dec. 2007, funded.
- “Developing a test suite for the OASIS Open Document standard”, Intel Corporation, \$10,000, PI, Sept. 2005– Mar. 2006, funded.

STUDENTS

- ◇ **Saad Ahman Khan**
PhD, joined Fall 2009.
Topic: *Urban sensing*.
- ◇ **Taranjeet Singh**
PhD, joined Spring 2011.
- ◇ **Mark Mucha**
MSc., joined Fall 2010.

ALUMNI

- ◇ **Yi Luo**
PhD, May 2011.
Title: *Spatio-temporal negotiation in multi-agent systems*
Currently at: Advanced Micro Devices.
- ◇ **Majid Ali Khan**
PhD, December 2007.
Title: *Coalition formation and teamwork in embodied agents*
Currently at: assistant professor, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan.
- ◇ **Linus Luotsinen**
PhD, December 2007.
Topic at: *Learning teamwork in embodied agents*
Currently: Research Scientist at the Swedish Defense Research Agency
- ◇ **Scott Vander Welde**
MSc., August 2008
Title: *Dynamic task allocation in mobile robot systems using utility functions*
- ◇ **Linus Luotsinen**
MSc., June 2004
- ◇ **Paul DeJung**
MSc., January 2005
- ◇ **Xin Bai**
PhD., May 2006, coadvised with Dan C. Marinescu.
Title: *Coordination, matchmaking, and resource allocation for large-scale distributed systems*

PHD
DISSERTATION
COMMITTEE
MEMBER

- ◇ **Han Yu**
PhD., November 2005, advisor Dan C. Marinescu.
- ◇ **Guoqiang Wang**
PhD., June 2007, advisors Damla Turgut and Dan C. Marinescu.
- ◇ **Victor Hung**
PhD., May 2009, advisor Avelino Gonzalez.
- ◇ **Jimmy Secretan**
PhD., Fall 2009, advisor Michael Georgiopoulos.

- ◇ **Cynthia Johnson**
PhD., Spring 2011, advisor Avelino Gonzalez.
- ◇ **Rex Oleson**
candidacy April 2007, advisor David Kaup.
- ◇ **Johann Nguyen**
candidacy planned Fall 2007, advisor Avelino Gonzalez.
- ◇ **Carlos Leon-Barth**
defense planned Spring 2011, advisor Ron DeMara.
- ◇ **Ghaith Haddad**
candidacy passed August 2008, advisor Gary T. Leavens
- ◇ **Faraz Hussain**
advisor Gary T. Leavens
- ◇ **Adam Campbell**
candidacy passed, advisor Annie S. Wu
- ◇ **Kennard Laviers**
candidacy passes, advisor Gita Sukthankar
- ◇ **Bulent Tastan**
advisor Gita Sukthankar
- ◇ **Mike Curtis - (Applied Experimental & Human Factors Psychology)**
candidacy passed January 2010, advisor Florian Jentsch
- ◇ **Fahad Shah**
advisor Gita Sukthankar