

Journal Publications

- One article currently under review (C. D. Hollander and A. S. Wu, "Distributed Consensus Formation through Unconstrained Gossip," submitted to IEEE Transactions on Information Theory).
- Batarseh, F. and A.J. Gonzalez, "Incremental Lifecycle Validation of Knowledge-Based Systems through CommonKADS". IEEE Transactions on Systems, Man and Cybernetics: Systems. Vol. 43, No. 3, May 2013, pp. 643-655.
- Batarseh, F. and A.J. Gonzalez, "Validation of Knowledge-Based Systems- A Reassessment of the Field". Artificial Intelligence Review. Published online Feb 2013, DOI: 10.1007/s10462-013-9396-9
- P. Varcholik*, J. J. LaViola & C. E. Hughes, "Establishing a Baseline for Text entry for a Multi-Touch Virtual Keyboard," International Journal of Human-Computer Studies, 70(10), October 2012, 657-672, <http://dx.doi.org/10.1016/j.ijhcs.2012.05.007>
- Corey McCall, Branden Maynes, Cliff C. Zou, Ning J. Zhang, "An automatic medication self-management and monitoring system for independently living patients", Elsevier Journal of Medical Engineering & Physics, Vol. 35, No. 4, 2013, pp. 505-514. <http://dx.doi.org/10.1016/j.medengphy.2012.06.018>
- Soyoung Park, Baber Aslam, Damla Turgut, Cliff C. Zou, "Defense against Sybil Attack in the Initial Deployment Stage of Vehicular Ad hoc Network based on Roadside Unit Support", Wiley Journal of Security and Communication Networks, Vol. 6, No. 4, 2013, pp. 523-538. <http://dx.doi.org/10.1002/sec.679>
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- Brust M.R., M.I. Akbas(*), and D. Turgut, "Multi-hop Localization System for Environmental Monitoring in Wireless Sensor and Actor Networks," Wiley Journal of Concurrency and Computation: Practice and Experience, Vol. 25, No. 5, April 2013, pp. 701–717. <http://dx.doi.org/10.1002/cpe.1812>
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- Rebêlo, H., R. Lima, G.T. Leavens, M. Cornelio, A. Mota, and C. Oliveria, “Optimizing Generated Aspect-Oriented Assertion Checking Code for JML Using Program Transformations: An Empirical Study,” *Science of Computer Programming*, online publication (early), Oct. 2012, <http://dx.doi.org/10.1016/j.scico.2012.09.003>
- Hatcliff, J., G.T. Leavens, K.R.M. Leino, P. Müller, and M. Parkinson, “Behavioral Interface Specification Languages,” *ACM Computing Surveys*, Vol. 44, num. 3, pp. 16:1-16:58, June, 2012. <http://doi.acm.org/10.1145/2187671.2187678>
- Folsom-Kovarik*, J., G. Sukthankar, and S. Schatz. “Tractable POMDP representations for intelligent tutoring systems,” *ACM Transactions in Intelligent Systems Technology*, Vol 4. No. 2, March 2013, pp. 29:1–29:22.
- Osipov-Lvoff*, K. and G. Sukthankar. “AmalgaCloud: Social network adaptation for human and computational agent team formation,” *ASE Human Journal*, Vol. 2. 2012, pp. 61–73. 3.
- Davami, E. and G. Sukthankar. “Online learning of user-specific destination prediction models,” *ASE Human Journal*, Vol. 3, 2012, pp. 144–151.
- Ding J#, Li X, Hu H., “Systematic discovery of cis-regulatory elements in *Chlamydomonas reinhardtii* genome using comparative genomics,” *Plant Physiology*, August 2012, pp.112.200840, doi: <http://dx.doi.org/10.1104/pp.112.200840>, 2012. (#: student coauthor)
- Wang Y#, Ding J#, Daniell H, Hu H, Li X. Motif analysis unveils the possible co-regulation of chloroplast genes and nuclear genes encoding chloroplast proteins. *Plant Mol Biol*, Vol. 80, No. 2, September 2012, pp 177-187. doi:10.1007/s11103-012-9938-6, 2012. (#: student coauthor)
- Nazim Ashraf, Yuping Shen, Xiaochun Cao, Hassan Foroosh, View-Invariant Action recognition Using Weighted Fundamental Ratios, *Computer Vision and Image Understanding (CVIU)*, vol. 117, pp. 587-602, 2013
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- Ellis, C., *Masood, Z., Tappen, M., LaViola, J., and R. Sukthankar, “Exploring the Trade-off Between Accuracy and Observational Latency in Action Recognition,” *International Journal of Computer Vision*, Vol. 101 No. 3, 2013, pp. 420-436.
- Cheema, S. and J. LaViola, “3D Gesture Classification With Linear Acceleration and Angular Velocity Sensing Devices for Video Games,” *Entertainment Computing*, Vol. 4 No. 1, 2013, pp. 11-24. UCF/CECS/FAR (revised 04/12) 4
- Tomlinson, B., Patterson, D., Pan, Y., Blevis, B., Nardi, B. Silberman, S., *Norton, J., and J. LaViola, “What If Sustainability Doesn’t Work Out?,” *Interactions*, Vol. 19 No. 6, 2012, pp. 50-55.
- Varcholik, P., LaViola, J., and C. Hughes, “Establishing a Baseline for Text Entry for a Multi Touch Virtual Keyboard,” *International Journal of Human-Computer Studies*, Vol. 70 No. 10, 2012, pp. 657-672.

- Lehman* J. and K. O. Stanley, “Evolvability Is Inevitable: Increasing Evolvability Without the Pressure to Adapt,” PLoS ONE, Vol. 8 No. 4, April 2013, e62186 (9 pages). <http://dx.doi.org/10.1371/journal.pone.0062186>
Note: PLoS is an online open access journal (though peer reviewed and high impact), so it does not use page numbers. Instead, the article identifier e62186 identifies the article.
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- C. Ellis*, S. Masood,* M. F. Tappen, J. J. LaViola, and R. Sukthankar, “Exploring the Trade-off Between Accuracy and Observational Latency in Action Recognition”, International Journal of Computer Vision Vol. 101, Feb. 2013, Issue 3, pp. 420-436
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- Solmaz, B., B. E. Moore, and M. Shah, "Identifying Behaviors in Crowd Scenes Using Stability Analysis for Dynamical Systems", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, Vol. 34, Issue 10, October 2012, pp. 2064-2070. <http://dx.doi.org/10.1109/TPAMI.2012.123>
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- P. Sarvepalli and P. Wocjan, "Quantum Algorithms for One-Dimensional Infrastructures," *Quantum Information and Computation*, Vol. 13, No. 11, 2013.
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- Cuncong Zhong*, Justen Andrews and Shaojie Zhang, "Discovering non-coding RNA elements in Drosophila 3' untranslated regions", *BMC Genomics* (Accepted).
- Arup Kumar Ghosh*, Susmit Jha, Christopher Langmead, and Sumit Kumar Jha; Discovering rare behaviors in stochastic differential equations using decision procedures: applications to a minimal cell cycle model. *BMC Genomics*. 2013 (accepted; in press) Journal Impact Factor: 4.07
- Sumit Kumar Jha, Raj Gautam Dutta*, Christopher James Langmead, Susmit Jha and Emily Sassano*: Synthesis of Insulin Pump Controllers from Safety Specifications using Bayesian Model Validation. *International Journal of Bioinformatics Research and Applications*, Vol.8, No.3/4, pp. 263 – 285, 2012

Conference Publications w/Proceedings

- Cortney Riggs and Annie S. Wu, "Variation as an element in multi-agent control for target tracking," In the Proceedings of the 25th IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Vilamoura, Portugal, October 7-12, 2012, pp. 834-841.

- Annie S. Wu, R. Paul Wiegand, and Ramya Pradhan, "Using response probability to build system redundancy in multi-agent systems," In the Proceedings of the 12th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Saint Paul, Minnesota, May 6-10, 2013.
- Vera A. Kazakova and Annie S. Wu and Talat S. Rahman. Cluster Energy Optimizing Genetic Algorithm. 2013. Accepted for publication in the Proceedings of the 15th Annual Conference Companion on Genetic and Evolutionary Computation (GECCO 2013). July 6-10, 2013 Amsterdam, Netherlands. One paper currently under review (C. D. Hollander and A. S. Wu, "The Impact of Network Topology and Node Centrality on the Consensus Time of Unconstrained Gossip," Submitted to the 52nd IEEE Conference on Decision and Control (CDC 2013), Florence, Italy, Dec. 2013).
- A Progress Reporting System to Advance Experiential Learning and Administrate Student Activities With Shane Chism (undergrad student) International Conf on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE) 2012 Las Vegas, July 2012 Refereed; International
- A Submission and Adjudication System to Track Tracking Training and Enhance Performance With Glenn Martin (grad student) and Chris Gouge International Conf on Internet Computing (ICOMP) 2012 Las Vegas, July 2012 Refereed; International
- Software Development Educational Pathway: AS => BAS With Colin Archibald, Richard Grant, and Craig Tidwell International Conf on Frontiers in Education: Computer Science and Computer Engineering (FECS) 2013 Las Vegas, July 2013 Refereed; International
- Brawner, K., R. Sottolare, and A.J. Gonzalez. "Semi-Supervised Classification of Realtime Physiological Sensor Datastreams for Student Mood Assessment in Intelligent Tutoring" Proceedings of the Intelligent Tutoring Systems Conference, 2012,
- S. Braeger*, Y. Xiong* & C. E. Hughes, "Photometric Display Calibration for Embedded MR Environments," IEEE Virtual Reality (IEEE VR 2013), Orlando, FL, March 18-20, 2013, Poster 41.
- A. Nagendran, R. Pillat*, C. E. Hughes & G. Welch, "Continuum of Virtual-Human Space: Towards Improved Interaction Strategies for Physical-Virtual Avatars," ACM SIGGRAPH VRCAI 2012, Dec. 2-4, 2012, Singapore, 135-142. <http://doi.acm.org/10.1145/2407516.2407554>
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- Steven Zittrower, Cliff C. Zou, "Encrypted Phrase Searching in the Cloud," IEEE Global Communications Conference (GLOBECOM), Dec. 3-7, 2012. pp. 764-770. <http://dx.doi.org/10.1109/GLOCOM.2012.6503205>
- Baber Aslam, *Faisal M. Amjad, Cliff C. Zou, "Optimal Roadside Units Placement in Urban Areas for Vehicular Networks," in 17th IEEE Symposium on Computers and Communications (ISCC), Turkey, Jul. 1-4, 2012. pp. 423-429. <http://dx.doi.org/10.1109/ISCC.2012.6249333>
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- Vidal A. (graduate student), Dechev D., Kassab A., “Evaluation of two acceleration techniques in a multithreaded 2D Poisson equation solver”, In Proceedings (Elsevier) of the International Conference on Computational Science (ICCS 2012), Omaha, Nebraska, June 4-6, 2012. Acceptance Rate: 35%.
- Turgut D., and L. Bölöni, “IVE: improving the value of information in energy-constrained intruder tracking sensor networks,” Proceedings of 2013 IEEE ICC, Budapest, Hungary, June 9-13, 2013.
- Solmaz(*) G., and D. Turgut, “Event Coverage in Theme Parks Using Wireless Sensor Networks with Mobile Sinks,” Proceedings of 2013 IEEE ICC, Budapest, Hungary, June 9-13, 2013.
- Akbas(*) M.I., Raghu Avula(*), M. Bassiouni, and D. Turgut, “Social Network Generation and Friend Ranking Based on Mobile Phone Data,” Proceedings of 2013 IEEE ICC, Budapest, Hungary, June 9-13, 2013. 4.
- Solmaz(*) G., M.I. Akbas(*), and D. Turgut, “Modeling Visitor Movement in Theme Parks,” Proceedings of 2012 IEEE P2MNet, Clearwater, USA, October 21-14, 2012, pp. 36–42.
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- “A Cloud Service for Adaptive Digital Music Streaming,” Proc 8th Int. Conf on Signal Image Technology and Internet-based System, CD Proceedings, 2012. With A. Paya a graduate student.
- A. Schwartz, F. Gomez and L. Ungar “Improving Supervised Sense Disambiguation with Web-Scale Selectors,” Proceedings of the 24th International Conference on Computational Linguistics, Coling-24, Mumbai, India, December 8-15, 2012, pp. 2423-2439.
- S. Szumlanski, F. Gomez and V. Sims “A new set of norms for semantic relatedness measures” Proceedings of the 51th Annual Meeting of the Association for Computational Linguistics, ACL-2013, Sofia, Bulgaria, August 4-9, 2013 (to appear)
- A. Hall and F. Gomez “Using an automatically generated Dictionary and a Classifier to identify a Person's profession in tweets.” Proceedings of the 26th International FLAIRS conference, St. Pete Beach, FL, May 22-24, 2013 (to appear)
- A. Tarik, A. Kim, F. Gomez and H. Foroosh “Exploiting Topical Perceptions over Multilingual Texts for Hashtag Suggestion,” Proceedings of the 26th International FLAIRS conference, St. Pete Beach, FL, May 22-24, 2013 (to appear) Note: The Coling conference (a biennial conference) and the ACL conferences are the top conferences in Computational Linguistics. The two papers in FLAIRS will appear within a week of writing this report.

- Tan, S.H, D. Marinov, L. Tan and G. T. Leavens, “@tComment: Testing Javadoc Comments to Detect Comment-Code Inconsistencies,” Fifth International Conference on Software Testing, Verification and Validation (ICST 2012), Montreal, Canada, April 2012, pp. 260-269. <http://doi.ieeecomputersociety.org/10.1109/ICST.2012.106>
- Beheshti*, R. and G. Sukthakar. “Improving Markov Chain Monte Carlo estimation with agent-based models.” Proceedings of the International Conference on Social Computing, Behavioral Cultural Modeling, and Prediction, Washington, D.C., April 2-5, 2013. pp. 495–502.
- Osipov-Lvoff*, K. and G. Sukthakar. “Forming effective teams from agents with diverse skill sets.” Proceedings of the ASE/IEEE International Conference on Social Informatics, Washington, D.C., December 14-16, 2012. pp. 44–48.
- Beheshti*, R. and G. Sukthakar. “Extracting agent-based models of human transportation patterns.” Proceedings of the ASE/IEEE International Conference on Social Informatics, Washington, D.C., December 14-16, 2012. pp. 157– 164.
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- Zhao*, L., G. Sukthakar, and R. Sukthakar. “Importance-weighted label prediction for active learning with noisy annotations.” Proceedings of the IAPR/IEEE International Conference on Pattern Recognition, Tsukuba Science City, Japan, November 11-15, 2012. pp. 3476–3479.
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- Folsom-Kovarik*, J. G. Sukthakar, and S. Schatz. “Integrating learner help requests using a POMDP in an adaptive training system.” Proceedings of the AAAI Conference on Innovative Applications of Artificial Intelligence, Toronto, CA, July 22-26, 2012. pp. 2287–2292.
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- Lewis*, B. and G. Sukthakar. “Configurable human-robot interaction for multi-robot manipulation tasks (extended abstract).” Proceedings of International Conference on Autonomous Agents and Multi-Agent Systems, Valencia, Spain, June 4-9, 2012. pp. 1219–1220.
- Ding J#, Hu H, Li X. “NIM, A novel computational method for predicting nuclear-encoded chloroplast proteins”, International Conference On Bioinformatics and Computational Biology, April. 2013, Beijing, China. (#: student coauthor)
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- Nazim Ashraf, Chuan Sun, Hassan Foroosh, Motion Retrieval using Low-Rank Decomposition of Fundamental Ratios, Proc. IEEE International Conference on Image Processing (ICIP), submitted, 2012.
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- Chuan Sun and Hassan Foroosh, Action Recognition using Rank-1 Approximation of Joint Self-Similarity Volume, International Conference on Computer Vision (ICCV), pp. 1007- 1012, 2012.
- Schild. J., Bölicke, L., LaViola J., and M. Masuch, “Creating and Analyzing Stereoscopic 3D Game Interfaces,” Proceedings of the 2013 ACM Annual Conference on Human Factors in Computing Systems (CHI 2013), Paris, France, April 2013, pp. 169-178.

- Cashion, J., Wingrave, C., and J. LaViola, "Optimal 3D Selection Technique Assignment Using Real Time Contextual Analysis," Proceedings of the IEEE Symposium on 3D User Interfaces 2013, Orlando, FL, March 2013, pp. 107-110.
- Kulshreshth, A., *Zorn, C., and J. LaViola, "Real-time Markerless Kinect based Finger Tracking and Hand Gesture Recognition for HCI," Proceedings of the IEEE Symposium on 3D User Interfaces 2013, Orlando, FL, March 2013, pp. 187-188. UCF/CECS/FAR (revised 04/12) 5
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- Pfeil, K., *Koh, S., and J. LaViola, "Exploring 3D Gesture Metaphors for Interaction with Unmanned Aerial Vehicles," Proceedings of the 2013 ACM International Conference on Intelligent User Interfaces, Santa Monica, CA, March 2013, pp. 257-266.

- Williamson, B., LaViola, J., Roberts, T., and P. Garrity, "Multi-Kinect Tracking for Dismounted Soldier Training," Proceedings of the Interservice/Industry Training, Simulation, and Education Conference (I/ITSEC) 2012, Orlando, FL, December 2012, pp. 1727-1735.
- Reiss, S., *Bott, J., and J. LaViola, "Code Bubbles: A Practical Working-Set Programming Environment," Proceedings of the 34th International Conference on Software Engineering (ICSE 2012), Zurich Switzerland, June 2012, pp. 1411-1414.
- Cossairt, T. and J. LaViola, "SetPad: A Sketch-Based Tool For Exploring Discrete Math Set Problems," Proceedings of the Ninth Eurographics/ACM Symposium on Sketch- Based Interfaces and Modeling 2012, Annecy, France, June 2012, pp. 47-56.
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