

## ***B. H. Far's Publications (2008-2011)***

### ***Peer-reviewed Journal Papers:***

1. M. Moshirpour, A. Mousavi, Behrouz H. Far, "Detecting Emergent Behavior in Distributed Systems Using Scenario-Based Specifications", Invited paper, International Journal of Software Engineering and Knowledge Engineering IJSEKE Journal, **Accepted, in Press.**
2. M. Moshirpour, S.M. El-Sherif, Behrouz H. Far, Reda Alhajj, "Detecting Emergent Behavior in Social Networks," in Social Networks Analysis and Mining, Springer, **Accepted, in Press.**
3. O. Sobajic, M. Moussavi, Behrouz H. Far, "Parameterized Strategy Pattern", ACM Transactions on Pattern Languages of Programming 2011, Springer, **Accepted, in Press.**
4. N. Mani, V. Garousi, Behrouz H. Far, "Search-based Testing of Multi-agent Manufacturing Systems for Deadlocks Based on Models," International Journal on Artificial Intelligence Tools, World Scientific Publishing Company, vol. 19, no. 4, pp. 417-437, 2010. 8.
5. N. Houari, Behrouz H. Far, "An Automated Approach for Generating Project Execution Modes with Multi-skilled Workforce Coalition Formation," International Transactions on Systems Science and Applications, vol. 6, no. 2/3, pp. 212-222, 2010. 8.
6. Behrouz H. Far, V. Mudigonda, A. Elamy, "A General Purpose Software Evaluation System," Informatica, vol. 33, pp. 261-270, 2009. 8.
7. M. Afsharchi, Behrouz H. Far and J. Denzinger, "Enhancing Communication with Groups of Agents Using Learned Non-unanimous Ontology Concepts," International Journal of Web Intelligence and Agent Systems (<http://www.iospress.nl/loadtop/load.php?isbn=15701263>), vol. 7, no. 1, pp. 107-121, 2009. 1.
8. Li Jiang, A. Eberlein, Behrouz H. Far, "A Case Study Validation of a Knowledge-based Approach for the Selection of Requirements Engineering Techniques," Requirements Engineering Journal (<http://www.springerlink.com/content/102830/>), vol. 13, no. 2, pp. 117-146, 2008. 6.

### ***Peer-reviewed Conference Papers:***

1. E. Paikari, E. Livani, M. Moshirpour, Behrouz H. Far, G. Ruhe, "Multi-agent System for Semantic Web Service Composition," Proceedings of the 5th Springer's International Conference on Knowledge Science, Engineering and Management (KSEM 2011), Irvine, USA, 2011.12.
2. M. Moshirpour, R. Alhajj, M. Moussavi, Behrouz H. Far, "Detecting Emergent Behavior in Distributed systems Using an Ontology Based Methodology," IEEE International Conference on Systems, Man and Cybernetics, (IEEE SMC 2011), Anchorage, Alaska, USA, 2011.10.
3. S. El-Sherif, Behrouz H. Far, A. Eberlein, "Calculating the Strength of Ties of a Social Network in a Semantic Search System Using Hidden Markov Models," IEEE International Conference on Systems, Man and Cybernetics, (IEEE SMC 2011), Anchorage, Alaska, USA, 2011.10.
4. L. Kattan, M. Moussavi, Behrouz H. Far, C. Harschnitz, A. Radmanesh, S. Saidi, "Evaluating the Potential Benefits of Vehicle to Vehicle Communication (V2V) under Incident Conditions in the PARAMICS Model," Proceedings of the 13th International IEEE Conference on Intelligent Transportation, Madeira, Portugal, 2010. 9.
5. M. Moshirpour, Behrouz H. Far, "Formal Verification of Lack of Existence of Illegal Scenarios in The Requirements of Distributed Systems," Proceedings of the International Conference on Software Engineering and Applications (SEA 2010), Marina Del Rey, USA, 2010. 11.
6. M. Moshirpour, A. Mousavi, Behrouz H. Far, "A Technique and Tool to Detect Emergent Behavior of Distributed Systems Using Scenario-Based Specifications," Proceedings of the International Conference on Tools with Artificial Intelligence, Arras, France, 2010. 10.
7. M. Moshirpour, A. Mousavi, Behrouz H. Far, "Model Based Detection of Implied Scenarios in Multi Agent Systems," IEEE 2010 International Conference on Information Reuse and Integration IRI 2010, Las Vegas, USA, 2010. 8.

8. T. Wanyama, H. Ibrahim, Behrouz H. Far, A. Eberlein, "A Unified Requirements Engineering Method," IEEE 2010 International Conference on Information Reuse and Integration IRI 2010, Las Vegas, USA, 2010. 8.
9. O. Sobajic, N. Ilich, M. Moussavi, Behrouz H. Far, "A Stochastic Time Series Generator with Adaptive Software Architecture," IEEE 2010 International Conference on Information Reuse and Integration IRI 2010, Las Vegas, USA, 2010. 8.
10. T. Wanyama, Behrouz H. Far, "Towards a Holistic Requirements Engineering Method," The 9th International Conference on Software Engineering Research and Practice (SERP 2010), Las Vegas, USA, 2010. 7.
11. M. Moshirpour, A. Mousavi, Behrouz H. Far, "Detecting Emergent Behavior in Distributed Systems Using Scenario-based Specifications," The 22nd International Conference on Software Engineering and Knowledge Engineering SEKE 2010, Redwood City, San Francisco Bay, USA, 2010. 7. **(Best Paper Award)**
12. H. Ibrahim, T. Wanyama, A. Eberlein, Behrouz H. Far, "Conflict Analysis in Commercial Off-The-Shelf (COTS) Based Development," The 22nd International Conference on Software Engineering and Knowledge Engineering SEKE 2010, Redwood City, San Francisco Bay, USA, 2010. 7.
13. A.H. Elamy, Behrouz H. Far, R. Long, "An Intelligent Framework for Automated Diagnosis of Active Tuberculosis on Chest Radiograph," The 22nd International Conference on Software Engineering and Knowledge Engineering SEKE 2010, Redwood City, San Francisco Bay, USA, 2010. 7.
14. Nora Houari and Behrouz H. Far, "A Decentralized Evolutional Approach to Handle Schedule Execution in Software Projects," The Sixth International Conference on Autonomic and Autonomous Systems (ICAS 2010), Cancun, Mexico, 2010. 3.
15. S.M. El-Sherif, Behrouz H. Far, A. Eberlein, "Semantic Search based on Multi-Agent System and Social Networking," The Sixth International Conference on Advances in Computer Science and Engineering (ACSE 2010), Sharm El Sheikh, Egypt, 2010. 3.
16. N. Mani, V. Garousi, Behrouz H. Far, "Runtime Monitoring of Multi-Agent Manufacturing Systems for Deadlock Detection Based on Models," 21st International Conference on Tools with Artificial Intelligence (ICTAI 2009), New Jersey, USA, 2009. 11.
17. N. Houari, Behrouz H. Far, "An Automated Approach for Generating Project Execution Modes with Multi-skilled Workforce Coalition Formation," IEEE 2009 International Conference on Information Reuse and Integration IRI 2009, pp. 400-404, Las Vegas, USA, 2009. 8.
18. H. Ibrahim, Behrouz H. Far, A. Eberlein, "Scalability Improvement in Software Evaluation Methodologies," IEEE 2009 International Conference on Information Reuse and Integration IRI 2009, pp. 236-241, Las Vegas, USA, 2009. 8.
19. Behrouz H. Far, C. Zhong, Z. Yang, M. Afsharchi, "Realization of Semantic Search Using Concept Learning and Document Annotation Agents," The 21st International Conference on Software Engineering and Knowledge Engineering SEKE 2009, pp. 164-169, Boston, USA, 2009. 7.
20. H. Ibrahim, Behrouz H. Far, A. Eberlein, "Tradeoff and Sensitivity Analysis of a Hybrid Model for Ranking Commercial Off-The-Shelf Products", 16th IEEE International Conference on the Engineering of Computer-Based Systems (ECBS 2009), pp. 119-127, San Francisco, CA, USA, 2009. 4.
21. L. Safari, M. Afsharchi, Behrouz H. Far, "Concepts in Action: Performance Study of Agents Learning Ontology Concepts from Peer Agents," International Conference on Agents and Artificial Intelligence (ICAART 2009), pp. 526-532, Porto, Portugal, 2009. 1.
22. H. Ibrahim, Behrouz H. Far, A. Eberlein, "Weighted Criteria Hybrid Model for Ranking Commercial Off-The-Shelf Products", Proceedings of the International Conference on Software Engineering (SE 2009), pp. 49-56, Innsbruck, Austria, 2009. 2.
23. H. Ibrahim, Behrouz H. Far, A. Eberlein, "Towards Uncertainty Management in COTS-Based Development", Proceedings of the 12th International Conference on Software Engineering and Applications (SEA 2008), pp. 73-78, Orlando, Florida, USA, 2008. 11.
24. N. Mani, V. Garousi, Behrouz H. Far, "A UML-Based Conversion Tool for Testing Multi-Agent Systems," 20<sup>th</sup> IEEE Int. Conf. on Tools with Artificial Intelligence (ICTAI 08), pp. 212-219, Dayton,

- Ohio, USA, 2008. 11.
25. N. Mani, V. Garousi, Behrouz H. Far, "Testing Multiagent Systems for Deadlock Detection Based on UML Models," 14<sup>th</sup> Int. Conf. on Distributed Multimedia Systems (DMS 08), pp. 77-84, Boston, USA, 2008. 9.
  26. Behrouz H. Far, V. Mudigonda, H. Elamy, "A General Purpose Software Evaluation System" The 2008 IEEE Int. Conf. on Information Reuse and Integration (IEEE IRI 08), pp. 290-295, Las Vegas, USA, 2008. 7.
  27. A. Mousavi, Behrouz H. Far, "Eliciting Scenarios from High Level Scenarios," The 20th Int. Conf. on Software Engineering and Knowledge Engineering (SEKE 08), pp. 466-471, Redwood City, San Francisco Bay, USA, 2008. 7.
  28. C. Zhong, Y. Zilan, M. Afsharchi, Behrouz H. Far, "Ontology Learning Supported Semantic Search Using Cooperative Agents," The 20th Int. Conf. on Software Engineering and Knowledge Engineering (SEKE 08), pp. 123-128, 2008. 7.

### **Conference Presentations:**

1. A.H. Elamy, Behrouz H. Far, "Condition-Based Reliability Modeling for Systems with Partial and Standby Redundancy," The 23rd IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2010, May 2-5, Calgary, Alberta, Canada, 2010.
2. S.M. El-Sherif, Behrouz H. Far, A. Eberlein, "Using Social Networks in Resolving Conflicts of Concept Learning Process," The 23rd IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2010, May 2-5, Calgary, Alberta, Canada, 2010.
3. A.H. Elamy, Behrouz H. Far, R. Long, "Automated Diagnosis of Active Tuberculosis on Chest Radiograph and CT Thorax: A Framework," The 23rd IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2010, May 2-5, Calgary, Alberta, Canada, 2010.
4. H. Ibrahim, Behrouz H. Far, A. Eberlein, Yousef Daradkeh, "Uncertainty Management in Software Engineering: Past, Present, and Future," The 22<sup>nd</sup> IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2009, May 3-6, St. John's, Newfoundland and Labrador, Canada, 2009.
5. Y. Zilan, C. Zhong, Behrouz H. Far, "A Practical Ontology-Based Concept Learning," The 21<sup>st</sup> IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2008, pp. 335-338, Niagara Falls, Ontario, Canada, 2008. 5.
6. N. Mani, V. Garousi, Behrouz H. Far, "Monitoring Multi-Agent Systems for Deadlock Detection Based On UML Models," The 21<sup>st</sup> IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2008, pp. 1611-1616, Niagara Falls, Ontario, Canada, 2008. 5.
7. A. Mousavi, Behrouz H. Far, "Harnessing Overgeneralization in the Synthesis of State Machines From Scenarios," The 21<sup>st</sup> IEEE Canadian Conference on Electrical and Computer Engineering CCECE 2008, pp. 1107-1112, Niagara Falls, Ontario, Canada, 2008. 5.

### **Chapter of the Books:**

1. M. Moshirpour, S.M. El-Sherif, Behrouz H. Far and Reda Alhaji, "Detecting Emergent Behavior in Social Networks," Social Network Analysis and Mining SNAM Book Chapter, Springer LNSN, **in Press**.
2. H. Elamy, Behrouz H. Far, "On the Evaluation of Agent-Oriented Software Engineering Methodologies: A Statistical Approach," Lecture Notes in Computer Science Volume 4898, Agent-Oriented Information Systems IV, pp. 105-122, 2008. 2.