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## **MAJOR RESEARCH INTERESTS**

My research interests include:

- real-time concurrent system specification and verification
- ontology, web services, agent and pervasive computing
- formal methods and safety critical systems
- software engineering and language semantics

I am currently on the editorial board of Formal Aspects of Computing Journal and Innovations in Systems and Software Engineering, A NASA Journal.

## **RECENT PUBLICATIONS**

1. C. Chen, J. S. Dong and J. Sun, **A Verification System for Timed Interval Calculus**, ICSE'08.
2. J. S. Dong, Y. Feng and H. Leung: **A Verification Framework for Agent Knowledge**. ICFEM 2007: 57-75
3. J. Sun and J. S. Dong, **Design Synthesis from Interaction and State-based Specifications**. IEEE Transactions on Software Engineering, 32(6):349-364, 2006
4. H. Wang, J. S. Dong, J. Sun and J. Sun. **Reasoning Support for Semantic Web Ontology Family Languages Using Alloy**. International Journal of Multiagent and Grid Systems, 2(4):455-471, 2006.
5. L. Yuan, J. S. Dong, J. Sun and H. A. Basit. **Generic Fault Tolerant Software Architecture Reasoning and Customization**. IEEE Transactions on Reliability. 55(3):421-435, 2006
6. J. Sun, J. S. Dong, S. Jarzabek and H. Wang. **CAD System Family Architecture and Verification: An Integrated Formal Approach**. IEE Proceedings Software. 153(3):102-112, 2006.
7. J. Sun and J. S. Dong, **Synthesis of Distributed Processes from Scenario-based Specifications**. FM'05, pp 415-431, 2005.
8. X. Wang, J. S. Dong, C. Chin, S. R. Hettiarachchi and D. Zhang. **Semantic Space: A Semantic Web Infrastructure for Smart Spaces**. IEEE Pervasive Computing, 3(3):32-39, 2004.
9. J. S. Dong, C. H. Lee, H. B. Lee, Y. F. Li and H. Wang. **A Combined Approach to Checking Web Ontologies**. WWW'04, pages 714-722, 2004.
10. J. S. Dong, C. H. Lee, Y. F. Li and H. Wang, **Verifying DAML+OIL and Beyond in Z/EVES**. ICSE'04, pp 201-210, 2004.
11. J. S. Dong. **Software Modeling Techniques and the Semantic Web**. ICSE'04, 2004. (tutorial paper)
12. J. S. Dong, J. Sun and H. Wang. **Checking and Reasoning about Semantic Web through Alloy**. FM'03. LNCS, pages 796-813, 2003.
13. B. Mahony and J.S. Dong. **Deep Semantic Links of TCSP and Object-Z: TCOZ Approach**. Formal Aspects of Computing journal, 13:142-160, Springer, 2002.
14. J. Sun, J. S. Dong, J. Liu and H. Wang. **Object-Z Web Environment and Projections to UML**. WWW'01, pages 725-734, ACM Press, 2001.
15. J. S. Dong, **State, Event, Time and Diagram in System Modeling**, ICSE'01, pages 733-734, IEEE Press, 2001. (tutorial paper)
16. B. Mahony and J.S. Dong. **Timed Communicating Object Z**. IEEE Transactions on Software Engineering, 26(2):150-177, Feb 2000.