

# **AUTOMATA THEORETIC MODEL CHECKING OF WEB SERVICE SYSTEMS**

**A PROJECT REPORT**

*Submitted By*

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## REFERENCES

1. Dimitra Giannakopoulou, Flavio Lerda (2001) 'Efficient translation of LTL formulae into Buchi automata', RIACS Technical Report 01.29
2. Mukund, M. (1997) 'Linear-Time Temporal Logic and Buchi Automata', Tutorial talk, Winter School on Logic and Computer Science, ISI, Calcutta.
3. Ramanujam, R. (1996) 'Locally linear time temporal logic', In proc. of LICS'96, pp. 118-127.
4. Foster, C., Uchitel, C., Magee, J. and Kramer J. (2003) 'Model-based verification of web service compositions', In proc. of ASE'03, pp. 152-163.
5. Shin Nakajima (2009) 'Model Checking Verification for Reliable Web Service', Hosei University
6. Sankar Gurumurthy, Orna Kupferman, Fabio Somenzi and Moshe Y. Vardi (2003) 'On Complementing Nondeterministic Buchi Automata' CHARME: 96-110
7. Meenakshi, B. (2004) 'Reasoning about distributed message passing systems', UNM TH81.
8. R. Gerth, D. Peled, M. Y. Vardi and P. Wolper (1995) 'Simple On-the-fly Automatic Verification of Linear Temporal Logic', In Protocol Specification Testing and Verification : 3-18
9. Sheerazuddin, S. (2013) 'Temporal specifications of client-server systems and unbounded Agents', HBNI TH49.