

Rob LeGrand

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Academic positions

- 2009– Angelo State University, San Angelo, Texas. Assistant Professor of Computer Science
- 2008–09 Bridgewater College, Bridgewater, Virginia. Assistant Professor of Mathematics and Computer Science

Education

- 2003–08 Ph.D., Computer Science, Washington University, St. Louis. Advisor: Ron Cytron. Dissertation: *Computational Aspects of Approval Voting and Declared-Strategy Voting*
- 1998–99 M.C.S., Computer Science, Texas A&M University, College Station. Advisor: Jianer Chen. Master's report: *An Anti-Forwarding Scheme for Signed Messages*
- 1994–98 B.S. *Magna cum laude*, Computer Science, Texas A&M University, College Station. Minor in mathematics. 3.846 GPR

Research interests

Computational social choice, algorithmic game theory, artificial intelligence (multi-agent systems, machine learning), theory of computation, languages, compilers

Publications

Rob LeGrand and Ron K. Cytron. Approval-rating systems that never reward insincerity. Presented at the 2nd International Workshop on Computational Social Choice, Liverpool, England, September 2008.

Rob LeGrand, Evangelos Markakis and Aranyak Mehta. Some results on approximating the minimax solution in approval voting. In *Proceedings of the Sixth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS '07)*, pages 1185–7. International Foundation for Autonomous Agents and Multiagent Systems (IFAAMAS), 2007.

Delvin Defoe, Rob LeGrand and Ron K. Cytron. On the connection between functional programming languages and real-time Java scoped memory. In *Proceedings of the 5th International Workshop on Java Technologies for Real-time and Embedded Systems*, pages 73–82. ACM Press, 2007.

Delvin Defoe, Rob LeGrand and Ron K. Cytron. Cost analysis for real-time Java scoped-memory areas. *Journal of Systemics, Cybernetics and Informatics*, Volume 5, No. 4, pages 70–77. International Institute of Informatics and Systemics, 2007.

Rob LeGrand, Evangelos Markakis and Aranyak Mehta. Approval voting: Local search heuristics and approximation algorithms for the minimax solution. Presented at the 1st International Workshop on Computational Social Choice, Amsterdam, Netherlands, December 2006.

Tobias Mann, Morgan Deters, Rob LeGrand and Ron K. Cytron. Static determination of allocation rates to support real-time garbage collection. In *Proceedings of the 2005 ACM SIGPLAN/SIGBED Conference on Languages, Compilers, and Tools for Embedded Systems (LCTES'05)*, pages 193–202. ACM Press, 2005.

Rob LeGrand. Analysis of the minimax procedure. Technical Report WUCSE-2004-67, Department of Computer Science and Engineering, Washington University, St. Louis, Missouri, November 2004.

Patents

Steven Bade, Rob LeGrand and Mark-David McLaughlin. System and method for providing positional authentication for client-server systems. U.S. Patent #6,898,628. Filed March 2001; awarded May 2005.

Steven Bade, Rob LeGrand and Mark-David McLaughlin. System and method for providing access to mobile devices based on positional data. U.S. Patent #6,778,837. Filed March 2001; awarded August 2004.

Previous teaching experience

- 2008 Teaching assistant for CSE 431S (Translation of Computer Languages) for Ron Cytron at Washington U.
- 2007 Teaching assistant for CSE 531S (Theory of Compiling and Language Translation) for Ron Cytron at Washington U.
- 2006 Guest lecturer in CSE 547T (Formal Languages and Automata) for Jeremy Buhler at Washington U.
- 2005 Instructor of CSE 436S (Software Engineering) at Washington U.
- 1998–99 Teaching assistant for CPSC 433 (Formal Languages and Automata) for Donald Friesen at Texas A&M