

CSci 780: Advanced Software Engineering Schedule

Wed 8/25	Course Overview, Topic Overview, Group Assignments, Topic Assignments, Presentation Presentation	Coppit
Fri 8/27	<p>Mary Shaw, "Writing Good Software Engineering Research Papers," <i>Proceedings of the 25th International Conference on Software Engineering</i>, Portland, Oregon, IEEE Computer Society, 2003, pp. 726-736.</p> <p>Roy Levin and David D. Redell, "An Evaluation of the Ninth SOSP Submissions or How (and How Not) to Write a Good Systems Paper," <i>ACM SIGOPS Operating Systems Review</i>, Vol. 17, No. 3 (July, 1983), pages 35-40.</p>	Coppit
Mon 8/30	W.W. Gibbs, " Software's Chronic Crisis ," <i>Scientific American</i> , pages 72-81, September, 1994.	Coppit
Wed 9/1	N.G. Leveson and C.S. Turner, " An Investigation of the Therac-25 Accidents ," <i>Computer</i> , vol. 26, no. 7, pages 18-41, July 1993.	
Fri 9/3	Fred Brooks, " No silver bullet: Essence and accidents of software engineering ," <i>IEEE Computer</i> , 20(4):10-19, April 1987. [Dagstuhl] [In MMM as well]	Coppit
Mon 9/6	Parnas, D., " On the criteria to be used in decomposing systems into modules ," <i>CACM</i> 15(2), 1053-1058, 1972. [Dagstuhl]	
Wed 9/8	K. Sullivan, W. G. Griswold, Y. Cai, B. Hallen, " The Structure and Value of Modularity in Design ", 8th European Software Engineering Conference; Held Jointly with 9th ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2001), September 2001.	
Fri 9/10	Dawson Engler, David Yu Chen, Seth Hallem, Andy Chou, and Benjamin Chelf, " Bugs as Deviant Behavior: A General Approach to Inferring Errors in Systems Code ," <i>SOSP</i> 2001.	
Mon 9/13	Michael D. Ernst, Jake Cockrell, William G. Griswold, David Notkin, " Dynamically Discovering Likely Program Invariants to Support Program Evolution ," <i>IEEE Transactions on Software Engineering</i> , 27(2): 99-123 (2001).	
Wed 9/15	David Evans, " Static Detection of Dynamic Memory Errors ," In <i>SIGPLAN Conference on Programming Language Design and Implementation</i> (PLDI '96), Philadelphia, PA, May 1996	

Fri 9/17	Kevin Sullivan, Jinlin Yang, David Coppit, Sarfraz Khurshid and Daniel Jackson. Software Assurance by Bounded Exhaustive Testing . In Proceedings of International Symposium on Software Testing and Analysis (ISSTA 2004), Boston, Massachusetts, 11-14 July 2004. IEEE.	
Mon 9/20 Proposal Abstracts Due	S. Mankefors, R. Torkar, and A. Boklund. New quality estimations in random testing . In Proceedings of the International Symposium on Software Reliability Engineering, pages 468-78, Denver, Colorado, 17-20 November 2003. IEEE.	
Wed 9/22	C. Boyapati, S. Khurshid, and D. Marinov, " Korat: Automated Testing Based on Java Predicates ," <i>International Symposium on Software Testing and Analysis</i> (ISSTA 2002), Rome, Italy. Jul 2002	
Fri 9/24	Darko Marinov and Sarfraz Khurshid. TestEra: A novel framework for automated testing of Java programs . In Proceedings of the 16th IEEE Conference on Automated Software Engineering (ASE 2001), San Diego, CA, 26-29 November 2001. IEEE.	
Mon 9/27 Full Proposals Due	Kiczales, G., Lamping, J., Mendhekar, A., Maeda, C., Videira Lopes, C., Loingtier, J.-M., and Irwin, J., " Aspect-Oriented Programming ," In <i>Proc. of ECOOP</i> , Springer-Verlag (1997).	
Wed 9/29	Martin P. Robillard and Gail C. Murphy. Automatically Inferring Concern Code from Program Investigation Activities . In Proceedings of the 18th International Conference on Automated Software Engineering, pages 225-234, October 2003.	
Fri 10/1	E. Baniassad and S. Clarke, " Theme: an approach for aspect-oriented analysis and design ," ICSE 2004, p 158-167.	
Mon 10/4	X. Zhang, R. Gupta, Y. Zhang, " Efficient Forward Computation of Dynamic Slices Using Reduced Ordered Binary Decision Diagrams ", ICSE 2004.	
Wed 10/6	Jeannette M. Wing, " A Specifier's Introduction to Formal Methods ," <i>IEEE Computer</i> , Sept. 1990, p. 8-22.	Coppit
Fri 10/8	Fredrick P. Brooks, <i>The Mythical Man-Month: Essays on Software Engineering, 20th Anniversary Edition</i> , Addison Wesley, Reading, Mass., second edition, 1995.	Coppit
Wed 10/27 Mid-Term Project Reports Due		

Wed 11/22 <i>Paper Submissions Due</i>		
Mon 12/1	<i>Program Meeting</i>	
Mon 12/6 <i>Final Papers Due</i>		
TBA (Normally 12/6 8:30-11:30)	<i>The 2nd Annual CSci 780 Symposium</i> Tues Dec 14? (12:30 TR, 1:00 MWF) Wed Dec 15? (9:30TR, 2:00 TR) Thurs Dec 16? (11:00 MWF, 8:00 TR)	