6.0 References

1. U. Wilensky, "Abstract meditations on the concrete and concrete implications for mathematical education". In I. Harel, and S. Papert (eds.), Constructionism, Ablex Publishing Corporation, Norwood, NJ, 1991, pp. 193-203.
2. Authenticity Consulting, LLC, "Field Guide to Consulting and Organizational Development ", Feb 2005, [online] available, http://www.managementhelp.org/misc/defn-systemsthinking.pdf [Accessed 12/05/2007]
3. Report of the ACM/IEEE-CS Joint Curriculum Task Force, "Computing Curricula 1991", Dec 1990, [online] available, http://www.computer.org/portal/site/ieeecs/menuitem.c5efb9b8ade9096b8a9ca0108bcd45f3/index.jsp?&pName=ieeecs_level1&path=ieeecs/education/cc1991&file=index.xml&xsl=generic.xsl&, [Accessed 13/06/2007]
4. Report of the ACM/IEEE-CS Joint Curriculum Task Force, "Computing Curricula 2001", Computer Science Volume, Dec 2001, [online] available, http://www.sigcse.org/cc2001/ [Accessed 13/06/2007]
5. The Joint Task Force on Computing Curricula IEEE Computer Society Association for Computing Machinery, "Software Engineering 2004", Aug 2004, [online] available, http://www.computer.org/portal/cms_docs_ieeecs/ieeecs/education/cc2001/SE2004Volume.pdf, [Accessed 13/06/2007]
6. J.Kramer, "Abstraction - is it teachable? 'the devil is in the detail'" *in Proc. (CSEET'03) 16th Conference on Software Engineering Education and Training*, Madrid Spain, 2003.
7. Kramer, "J. Abstraction – the key to Computing?" Communications of the ACM, to appear.
8. K. Devlin, "Why universities require computer science students to take math", Communications of the ACM, 46 (9), Sep 2003, pp. 37-39.
9. O. Hazzan, "Reducing Abstraction Level when Learning Computability Theory Concepts", *in Proc. (ITICSE'02) Innovation and technology in computer science education*, June 2002, Aarhus, Denmark.

10. O. Hazzan, "Reducing abstraction level when learning abstract algebra concepts", Educational Studies in Mathematics 40(1), 1999, pp. 71-90.
11. J. Kramer, O. Hazzan, "The Role of Abstraction in Software Engineering", *in Proc. (ICSE'06) International workshop on role of abstraction in software engineering*, May 2006, Shanghai, China.
12. E.W. Beth, J. Piaget, Mathematical Epistemology and Psychology, D. Reidel Publishing Company, 1966.
13. E. Dubinsky, Reflective abstraction in advanced mathematical thinking. In Tall, D. (ed.). Advanced Mathematical Thinking, Kluger Academic press, 1991, pp. 95-123.
14. A. Sfard, On the dual nature of mathematical conceptions: Reflections on processes and objects as different sides of the same coin. Educational Studies in mathematics 22, 1991, pp. 1-36.
15. A. Sfard, Operational origins of mathematical objects and the quandary of reification - The case of function. In Dubinsky, E. and Harel, G. (eds.). The Concept of Function - Aspects of Epistemology and Pedagogy, MAA Notes. 1992.
16. D. Aharoni, Cogito, "Ergo Sum! Cognitive processes of students dealing with data structures. In S. Haller (Ed.)", *in Proc. (SIGCSE 2000) Technical symposium on computer science education*. Austin, Texas, 2000.
17. D.A. Schön, The Reflective Practitioner, NY: BasicBooks, 1983.
18. D.A. Schön, "Educating the Reflective Practitioner: Towards a New Design for Teaching and Learning in The Profession", San Francisco: Jossey-Bass, 1987.
19. B. Liskov, J. Guttag, Abstraction and Specification in Program Development, The MIT Press, 1986.
20. J.E. Tomayko, O. Hazzan, Human Aspects of Software Engineering, 1st Ed., Charles River Media, 2004.
21. Game Theory .net, [online] available, www.gametheory.net, [Accessed 12/05/2007]
22. O. Hazzan, "The reflective practitioner perspective in software engineering education", The Journal of Systems and Software 63(3), 2002, pp. 161-171.

23. M. John, F. Maurer, B. Tessem, "Human and Social Factors of Software Engineering – Workshop Summary," *in Proc. ACM. Conf. SIGSOFT. Software Engineering*, May, 2005.
24. St. Louis, Missouri, "Cultural patterns in software process mishaps: incidents in global projects," *in Proc. ACM. Conf. International Conference on Software Engineering*. Human and Social Factors of Software Engineering, 2005, pp. 1-5.
25. D.E. Perry, N.A. Staudenmayer, L.G. Votta, "People, organizations, and process improvement," IEEE Software, vol. 11, issue. 4, Jul 1994, pp. 36-45.
26. Carnegie Mellon School of Computer Science, Distance Learning, "Human Aspects", Feb 2007, [online] available, http://www.distance.cmu.edu/SE/human.html, [Accessed 12/03/2007]
27. R.C.L Perera, "Employability Of Fresh It Graduates From Local Universities In The It Industry A Study Addressing Employability Skill Development," Master Thesis, University of Moratuwa, Dec 2005.
28. Y.W. Mallawarachchi, "The Factors that Affect the Selection and Tailoring of Software Development Processes," Master Thesis, University of Moratuwa, Dec 2006.
29. SLICTA, "Rising Demand: The increasing demand for IT workers spells a challenging opportunity for the IT industry", Sri Lanka, April 2007.
30. C.B. Seaman, "Qualitative Methods in Empirical Studies of Software Engineering", IEEE Trans. Software Eng., vol. 25, issue. 4, Jul/Aug 1999, pp. 557-572.
31. R.K. Fjeldstad, W.T Hamlen, "Application Program Maintenance Study – Reports to Our Respondents", *In Tutorial of Software Maintenance*, IEEE Computer Society Press, 1983.
32. Brooks, Ruven, "Towards a Theory of Comprehension of Computer Programs", International Journal of Man-Machine Studies, 1983, pp. 543 – 554.
33. D. C. Littman, J. Pinto, S. Letovsky, E. Soloway, "Mental models and software maintenance", Journal of Systems and Software, vol. 7, issue. 4, 1987, pp. 341 – 355.

34. A.M. Vans, A. von. Mayhauser, G. Somlo, "Program understanding behavior during corrective maintenance of large-scale software", International Journal of Human-Computer Studies, vol. 51, issue. 1, 1999, pp. 31 – 70.

35. J. Perrenet, E. Kaasenbrood, " Levels of Abstraction in Students' Understanding of the Concept of Algorithm: the Qualitative Perspective", *in Proc. (ITICSE'06) Innovation and technology in computer science education*, June 2006, Bologna, Italy.

36. J. Perrenet, J. F. Groote, E. Kaasenbrood, " Levels of Abstraction in Students' Understanding of the Concept of Algorithm: the Qualitative Perspective", *in Proc. (ITICSE'05) Innovation and technology in computer science education*, June 2005, Monte de Caparica, Portugal.

37. No of CSE graduates, [online] available, www.mrt.ac.lk, [Accessed 12/07/2007]