

# Summary Resumé of Rattikorn Hewett

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<b>Personal data</b>	US Citizen; native of Thailand.
<b>Contact Address</b>	302 Pine Street, Abilene, TX 79601. Tel: (325) 677-1112. Rattikom.Hewett@ttu.edu.
<b>Career Objectives</b>	Research & development, education & training.
<b>Current Employment</b>	Professor, Texas Tech University, Computer Science Department, Abilene, TX.
<b>Research Areas</b>	Applied AI (Artificial Intelligence) research including: data mining, intelligent control and diagnostic systems, blackboard systems, model-based reasoning, decision support systems, AI in software engineering and system engineering; formal language theory.
<b>Education</b>	Postdoctoral Fellow at Stanford University, 1987-1990. Ph.D. Computer Science, 1986, Iowa State University. Master of Engineering Science, 1979, University of New South Wales, Australia. B.A. (Honors) Pure Mathematics and Statistics, 1977, Flinders University, Australia.
<b>Honors &amp; Awards</b>	Australian government scholarships for graduate and undergraduate honor degrees.

## Work Experience

- Over eleven years of research and teaching at Texas Tech University (Aug 2004, tenured and promoted to professor), Washington State University Vancouver (Aug 2003 – Jul 2004, tenured associate professor) and Florida Atlantic University (Aug 1990 – Jul 1999, tenured and promoted to associate professor in 1995); additional over two years of teaching experience in USA and Thailand.
- Three years of research and development at Institute for Human and Machine Cognition, Pensacola, Florida.
- Three years of postdoctoral research at Knowledge System Laboratory, Stanford University.
- Consultant with Cimflex Teknowledge and Texas Instruments Inc., and software developer/consultant at University of Kansas.

## Research

- More than 75 publications including over 55 peer-reviewed papers, 4 refereed book chapters, invited papers and technical reports; also, 12 invited talks.
- Ongoing research in data mining and development of a machine learning system based on a comprehensible model for abstracting rules from databases.
- Machine learning in Bioinformatics, particularly classification of genetic phenotypes of Osteogenesis Imperfecta (with researchers at Stanford Medical Informatics).
- A principal investigator of a project (funded by the state of Florida) to build predictive models of lake inflows from solar and ocean-atmospheric variability (with researchers at South Florida Water Management Districts).
- AI in software engineering. A principal investigator of an NSF-funded project to enhance autonomy in domain-specific and object-oriented software synthesis control. Current research on development of safety-related systems and risk assessment of software for network information systems.
- Designed and developed diagnostic and explanation components of GUARDIAN, a DARPA-funded project to develop intelligent real-time monitoring control architecture.
- Other research includes analysis of software reuse data and defect data to enhance software development; information filtering and retrieval; knowledge management; software requirements, knowledge sharing and collaborative tools.

## Teaching

- Graduate/undergraduate computer science courses, including distance learning courses, seminars and independent studies.
- Award: Exceptional Professor, College of Engineering, Florida Atlantic University, Spring 1994.

## Service

- Program committee member in over 25 international technical conferences; chaired four sessions in international conferences.
- Refereed papers for several journals and proposals.