



Dr. Masoud Nikravesh
BISC Executive Director and Program Manager

Dr. Nikravesh is the Executive Director of BISC (Berkeley Initiative in Soft Computing), the Computer Science Division at the University of California, Berkeley. BISC is a world-leading center for basic and applied research in soft computing, computing with words (CW), computational theory of perception (CTP), common senses and human reasoning, and precisiated natural language (PNL)-computation and reasoning with information presented in natural languages. Dr. Nikravesh's main focus has been on the development of computational intelligence within the framework of soft computing (evolutionary computing including GA and DNA coding, neural network, fuzzy logic, and probabilistic reasoning). The framework has been applied for data understanding and knowledge discovery from multiple scientific domains. Dr. Nikravesh is visiting Research Scientist in the Imaging and Informatics Group at, Lawrence Berkeley National Laboratory. He is the LBNL-NERSC (National Energy Research Scientific Computing Division) representative to the DiMI- UC Discovery Program and he is member of Executive Committee and member of research council-UC Discovery program. Dr. Nikravesh has published six books and over 150 papers and presentations on a wide range of topics in artificial intelligence and soft computing. He has led a team of scholars and interacted with private and Government funding institutions to develop strategic research plans. He has served as reviewer and has been on the board of several public and private IT centers of excellence. His credentials have led to front-page news at Lawrence Berkeley National Laboratory News and headline news at the Electronics Engineering Times.

Berkeley Initiative in Soft Computing (BISC), University of California, EXECUTIVE DIRECTOR (June 2000-Present)

- **Scientific:** Led the Berkeley's initiative on computational intelligence within the framework of soft computing for technology development in data fusion, knowledge discovery, and decision support systems. Applications span telecommunication, health care, energy, and scientific data.
- **Teaching:** Developed lectures, seminar series, and special courses with Professor Lotfi Zadeh, and directed visiting scientists, postdocs, and Graduate students toward advancement of soft computing technologies.
- **Management:** Led a number of workshops and international conferences on computational intelligence and expanded applications of this technology. Developed road maps for public and private interactions through technologies developed at BISC. Research activities have been funded through DOE, ONR, British Telecom, Honeywell, Tekes, OMRON, Chevron-Texaco, etc.
- **Recent Research:** Theory and the applications of natural language computing: Computing and reasoning with information presented in natural languages
- **Applications Interested:** Concept-based search engines, automated user/consumer profiling, targeted advertising, customer satisfaction analysis software