

Contents

Preface / vii

Sponsoring Organization / viii

MAICS-99 Organization / ix

Building a Proper Noun Database to Support Natural Language Applications / 2
Saleem Abuleil and Martha Evens

Bilingual Dialogs with a Network Operating System / 7
Emad Al-Shawakfa and Martha Evens

Improved Multiprocessor Task Scheduling Using Genetic Algorithms / 13
Michael Bohler, Frank W. Moore, and Yi Pan

Learning in Search for World Wide Web Documents with Queries / 20
Zhixiang Chen, Xiannong Meng, and Richard Fowler

An Exploration of Representational Complexity Via Coupled Oscillator Systems / 27
Anthony Chemero and Douglas Eck

Speed and Accuracy Using Four Boolean Query Systems / 36
Michael Chui and Andrew Dillon

Novice Versus Expert Tutors: A Comparison of Style / 43
Michael Glass, Jung Hee Kim, Martha Evens, Joel A. Michael, and Allen A. Rovick

Revisiting Roger Brown's "Original Word Game": An Experimental Approach to the Pseudo-Semantic Basis of Language-Specific Speech Perception in Late Infancy / 50
Reese M. Heitner

Adaptive Behavior of Perceptual Information Processing / 56
Atsushi Inoue and Anca L. Ralescu

Incorporation of Case Frames for Multi-Word Verbs Into a Lexical Database / 63
Phyllis M. Kowalke

Graphics + Robotics + AI = Fast, 3D Scene Construction / 69
Brian C. Mashburn and Douglas S. Blank

Treatment Protocol System for Telemedicine in a Wireless Communication Environment / 73
Narin Puntien, Martha Evens, and David Trace

Exploitation of Sub-populations in Evolution Strategies for Improved Numerical Optimization / 80
Brian D. Rigling and Frank W. Moore

The Argus Project: A Binocular Stereovision Head for the
Investigation of Distributed Visual Attention / 89
J. Oliver Ross and Douglas S. Blank

INDED: A Symbiotic System of Induction and Deduction / 93
Jennifer Seitzer

Description Identification and Retraction with Integrated Instance/
Concept-Based Boundary Sets / 100
Evgueni N. Smirnov and Peter J. Braspenning

Index / 107