

2009 IEEE International Conference on Computational Cybernetics

(ICCC 2009)

**Palma de Mallorca, Spain
26 – 29 November 2009**



**IEEE Catalog Number: CFP09575-PRT
ISBN: 978-1-4244-5310-8**

TABLE OF CONTENTS

Signal and System Representations on Hyperbolic Groups: Beyond Rational Orthogonal Bases.....	1
<i>A. Soumelidis, J. Bokor, F. Schipp</i>	
Application of Local Deformations in Adaptive Control - A Comparative Survey.....	15
<i>J.K. Tar</i>	
Associative Aggregation Functions Representing Different Scale Types.....	29
<i>J. Fodor, I.J. Rudas</i>	
Dijkstra Beats Genetic Algorithm: Integrating Uncomfortable Intersection-Turns to Subjectively Optimal Route Selection.....	34
<i>Y. Kambayashi, H. Yamachi, Y. Tsujimura, H. Yamamoto</i>	
A Recursive Change Point Estimate of the Wind Speed and Direction	40
<i>M. Azmani, S. Reboul, J.-B. Choquel, M. Benjelloun</i>	
The MILES Military English Learning System Pilot Project	46
<i>A. Tick</i>	
OWA Fuzzy Linking Histogram Approach for Image Retrieval.....	52
<i>M.T. Mahmoudi, M. Beheshti, C. Lucas, F. Taghiyareh</i>	
Flexible Course Definitions by using of Predefined Description of Elements.....	58
<i>J. Gati, G. Kartyas</i>	
Business Process Analysis of NFC-based Services	63
<i>B. Benyo</i>	
A Note on Agents, Societies, and Creativity	68
<i>J. Kelemen</i>	
Transistor-Level Test Calculation for CMOS Circuits	72
<i>J. Sziray</i>	
Simple Adaptive Dynamical Control of Vehicles Driven by Omnidirectional Wheels	78
<i>J.K. Tar, I.J. Rudas, I. Nagy</i>	
A New Machine For Acquire Pavement Texture	83
<i>J.L. Vilaca, J.C. Fonseca, A.M. Pinho, E. Freitas</i>	
LPV Type Model of Deformational Force in Vehicle Collisions	89
<i>I.A. Harmati, A. Rovid, P. Varlaki</i>	
Fuzzy Extension to P-Graph Based Workflow Models	95
<i>J. Tick</i>	
Quality Control of a Light Metal Die Casting Process using Artificial Neural Networks	99
<i>M. Becker</i>	
The Place of Agriculture in the Green National Accounts	104
<i>J.B. Lisanyi</i>	
Bigradient Learning Algorithm for Dimension Reduction of Text Document Space	110
<i>L. Skovajsova, I. Mokris</i>	
“System Identification” and Hermeneutics for Long Run Series of Synchronicities in the Pauli-Jung Relationship.....	114
<i>P. Varlaki, J. Bokor, I.J. Rudas</i>	
On the Randomness in Learning	126
<i>J. Ratsaby</i>	
Algorithm for Pulse Coupled Neural Network Parameters Estimation.....	131
<i>R. Forgac, I. Mokris</i>	
Multilevel Fuzzy Model for Risk Management	136
<i>M. Takacs</i>	
Digital Fuzzy Parametric Conjunctions for Hardware Implementation of Fuzzy Systems	140
<i>I.J. Rudas, I.Z. Batyrshin, A.Hernandez Zavala, O.Camacho Nieto, L.Villa Vargas</i>	
On the Way of Mechatronics	150
<i>A.L. Bencsik</i>	
Image Description by Hierarchical Prioritised Fuzzy Systems.....	155
<i>P. Salgado, P. Garrido</i>	
The FPAA Realization of Analog Robust Electronic Circuit.....	161
<i>G. Gyorok</i>	
On the Way towards Model for Background of Decisions on Engineering Objects in PLM.....	166
<i>L. Horvath, I.J. Rudas, G. Hancke</i>	

Constrained Model Predictive Control Implementation in an Industrial Drying Process	172
<i>A. Schuster, M. Kozek</i>	
Mathematical Modeling of Radial Compressor of a Turbojet Engine	178
<i>L. Fozo, R. Andoga, L. Madarasz, M. Bucko</i>	
Number Archetypes, Symbolic Coding Letters and "Background Communication Theory" in Saint Stephen's Royal Mirror.....	182
<i>P. Varlaki, J. Bokor</i>	
Author Index	