

# Proceedings of the Fourth Bar-Ilan Symposium on Foundations of Artificial Intelligence

## Index

- Alvarado, Matías, 3  
Arieli, Ofer, 14  
Automated Reasoning with Extended Linking and Left Merging, 73  
Automatic Mesh Generation (for Finite Element Method) Using Self-Organizing Neural Networks, 149  
Avron, Arnon, 14
- Bar Hillel and Machine Translation: Then and Now, 300  
Beyond Word  $N$ -Grams, 200  
Bilattice-Based Approach to Recover Consistent Data from Inconsistent Knowledge-Bases, A, 14  
Burkey, Chad, 103
- Callaway, Charles B., 24  
Calmet, Jacques, 34  
Cherniaev, Valery, 43
- Dagan, Ido, 51  
Disjunctive Deductive Databases: Semantics, Updates, and Architecture, 256  
Distributed Mathematical Problem Solving, 34
- Engelson, Sean P., 51
- Fernández, J. A., 256  
From Ambiguous Knowledge and Undefined Information to Knowledge: A Three-Valued Logic Application, 3  
Future of MT is Now and Bar-Hillel was (almost entirely) Right, The, 137
- Ginzburg, Jonathan, 64  
Givoli, Dan, 149  
Grant, John, 275  
Group Knowledge Isn't Always Distributed (Neither Is It Always Implicit), 223  
Gryz, Jaroslaw, 256, 275
- Henschen, Lawrence, 73  
Ho, Chuen-Hsuen Jeff, 73  
Homann, Karsten, 34  
How to Derive Conveyed Meanings, 178
- Intelligent Systems: Unified Approach to Knowledge Representation, Analysis and Implementation Based on Fuzzy Petri Nets, 43  
Intelligent Talk-and-Touch Interfaces Using Multi-Modal Semantic Grammars, 103  
Internal Contextual Grammars: Minimal, Maximal, and Scattered Use of Selectors, 159  
Introduction: Bar Hillel: The Man, The Scholar, The Teacher, ix
- Joshi, Aravind K., 297
- Kraus, Sarit, 189  
Kronfeld, Amichai, 82  
Krulwich, Bruce, 103
- Lappin, Shalom, 113  
Lespérance, Yves, 213  
Lester, James C., 24  
Levesque, Hector J., 213  
Lexicalization and Categorical Grammars-- A Story Bar-Hillel Might Have Liked, 297

Logicity and the Determination of Syntactic Categories in Natural Language, 113

Maass, W., 126

Macklovitch, Elliott, 137

Manevitz, Larry M., 149, 169

Martín-Vide, C., 159

Mateescu, A., 159

Measuring Semantic Complexity, 245

Meltser, Mark, 169

Meyer, J. -J. Ch., 223

Minker, Jack, 256, 256

Miquel-Vergés, J., 159

Modeling Alternate Selection Schemes for Genetic Algorithms, 232

Morreau, Michael, 178

Neural Networks: Using a Game Theoretic Derivative for Minimizing Maximal Errors and Designing Network Architecture, 169

Nirenburg, Sergei, 300

Nirkhe, Madhura, 189

Núñez, Gustavo, 3

On Learnability and Predicate Logic (Extended Abstract), 126

Paun, Gh., 159

Pereira, Fernando C., 200

Perlis, Donald, 189

Quantificational Dynamics via Dialogue, 64

Reference and Computational Models of Illocutionary Acts, 82

Robust Natural Language Generation from Large-Scale Knowledge Bases, 24

Scherl, Richard B., 213

Selective Sampling in Natural Language Learning, 51

Shoham, Moshe, 169

Singer, Yoram, 200

Situation Calculus with Sensing and Indexical Knowledge, The, 213

Thinking Takes Time: A Modal Active-

Logic for Reasoning in Time, 189

Tishby, Naftali, 200

Turán, Gy., 126

Updating Disjunctive Databases via Model Trees, 275

van der Hoek, W., 223

van Linder, B., 223

Vose, Michael D., 232

Yousef, Malik, 149

Zadrozny, Wlodek, 245