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                          Natural Language Processing (NLP)
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   Nota di contenuto   The genesis of attribute grammars -- The hierarchy of LR-attributed
                          grammars -- Space optimization in the FNC-2 attribute grammar
                          system -- Counting polyominoes using attribute grammars -- Parallel
                          attribute evaluation: structure of evaluators and detection of paralleism
                          -- Parallel one-pass compilation -- Attribute grammar applications in
                          prototyping LOTOS tools -- Rapid development of a program
                          transformation system with attribute grammars and dynamic
                          transformations -- Tree transformations, functional languages, and
                          attribute grammars -- The project on Extended Affix Grammars at

Nijmegen -- Abstract interpretation using attribute grammars -- Functional evaluation of strongly non circular typol specifications -- Object oriented extension of attribute grammars and its implementation using distributed attribute evaluation algorithm -- Incremental attribute evaluation for multiple subtree replacements in structure-oriented environments -- Coordinated incremental attribute evaluation on a DR-threaded tree -- The OLGA attribute grammar description language: Design, implementation and evaluation -- The Elegant compiler generator system -- Use of attribute grammars in compiler construction -- An OPTRAN-generated front-end for Ada -- Attributed translation and the semantics of natural language -- Application of attribute grammars to natural language sentence generation -- Attribute grammar specification for a natural language understanding interface -- Globally partitionable attribute grammars -- Concurrent incremental attribute evaluation.

| Sommario/riassunto | Attribute grammars were introduced over twenty years ago, but they are still not as widely used as could have been hoped initially. This is particularly so in industry, despite their qualities as a specification tool. The aim of this International Workshop on Attribute Grammars and their Applications (WAGA), the first to be entirely devoted to this topic, was to show that they are still the subject of active research and now lead to important, useful and practical applications in various areas. The workshop covered all aspects of attribute grammars, with an emphasis on practical results. This volume includes the text of the three invited talks and 21 submitted papers presented at the workshop. This selection provides a wide view of the diverse research being done in the area. Topics include: - Fundamentals: efficient exhaustive and incremental at- tribute evaluation methods, parallel evaluation, space optimization, relationships with functional, logic and object-oriented programming, and systems. - Applications: compiler construction, natural language processing, and interactive program manipulation. |