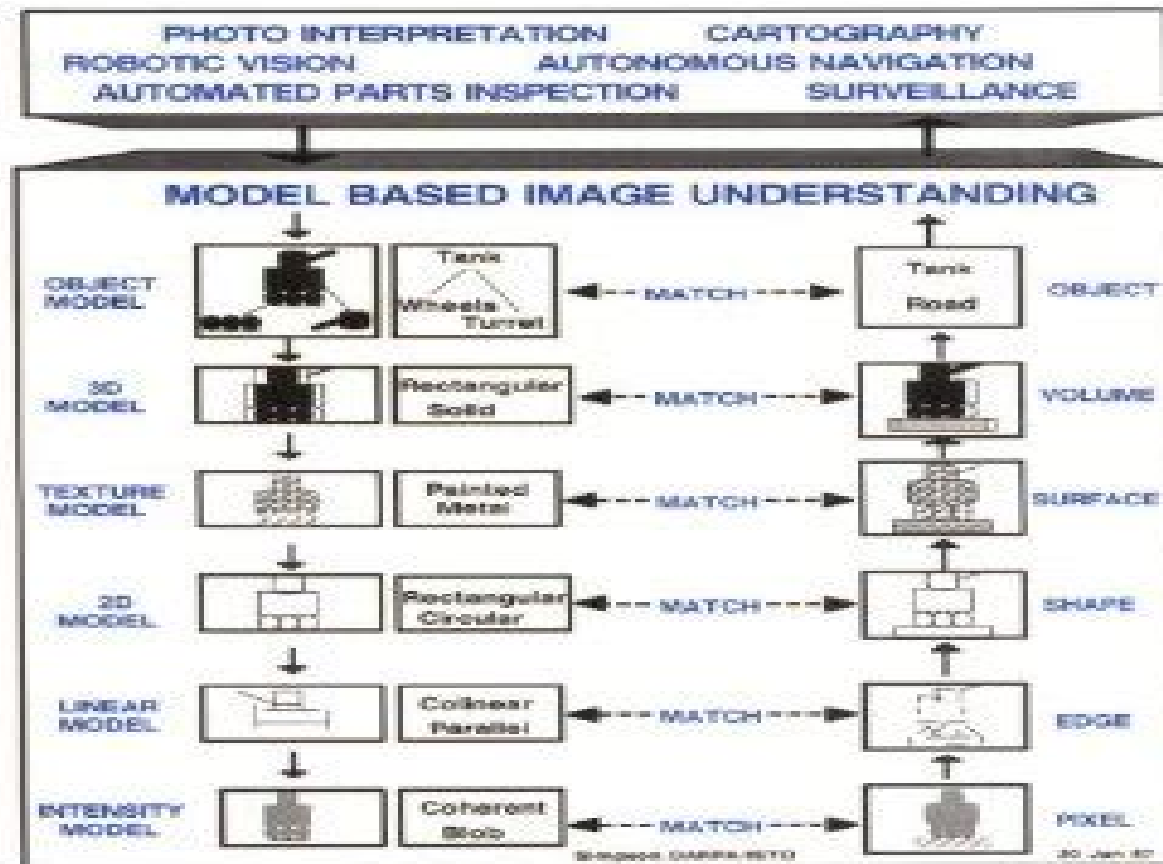


PROCEEDINGS:

Image Understanding Workshop

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February 1987
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Darpa Image Understanding Proceedings 1987 Image Understanding Workshop

Carl F. Hostetter



Darpa Image Understanding Proceedings 1987 Image Understanding Workshop:

Image Understanding Workshop ,1988 Image Understanding Workshop ,1988 The main theme of the 1988 workshop the 18th in this DARPA sponsored series of meetings on Image Understanding and Computer Vision is to cover new vision techniques in prototype vision systems for manufacturing navigation cartography and photointerpretation P v The 1993 Goddard Conference on Space Applications of Artificial Intelligence Carl F. Hostetter,1993 **Image Understanding in the 90's** Society of Photo-optical Instrumentation Engineers,1991 *DARPA Image Understanding Proceedings 1987* DARPA,1998-07-31 Image Understanding in Unstructured Environment Su-shing Chen,1988 In the development of autonomous sensory controlled systems image understanding of sensory data is a difficult but important topic Due to the unpredictable and uncertain nature of the environment current image processing and computer vision approaches are not adequate to provide the capabilities needed by the systems Thus new approaches are required in the overall system design including sophisticated reasoning processes uncertainty management and adaptable architectures This general issue is addressed by Thomas M Strat and Grahame B Smith Lashon B Booker discusses the Bayesian approach in plausible reasoning for classification of complex ship images based on incomplete and uncertain evidence Dynamic scene analysis is treated by Seetharaman Gunasekaran and Tzay Y Young A spherical perspective approach is introduced to overcome some limitations of the current vision systems by Michael Penna and Su shing Chen Finally Markov image models and their pixel level approaches are extended to global approaches through Dempster Shafer and other techniques by Mingchuan Zhang and Su shing Chen *Advances in Electronics and Electron Physics* ,1993-11-17 Advances in Electronics and Electron Physics **Traditional and Non-Traditional Robotic Sensors** Thomas C. Henderson,2012-12-06 This book contains the written record of the NATO Advanced Research Workshop on Traditional and Non Traditional Robotic Sensors held in the Hotel Villa del Mare Maratea Italy August 28 September 1 1989 This workshop was organized under the auspices of the NATO Special Program on Sensory Systems for Robotic Control Professor Frans Groen from the University of Amsterdam and Dr Gert Hirzinger from the German Aerospace Research Establishment DLR served as members of the organizing committee for this workshop Research in the area of robotic sensors is necessary in order to support a wide range of applications including industrial automation space robotics image analysis microelectronics and intelligent sensors This workshop focused on the role of traditional and non traditional sensors in robotics In particular the following three topics were explored Sensor development and technology Multisensor integration techniques Application area requirements which motivate sensor development directions This workshop brought together experts from NATO countries to discuss recent developments in these three areas Many new directions or new directions on old problems were proposed Existing sensors should be pushed into new application domains such as medical robotics and space robotics *Neural Computers* Rolf Eckmiller,Christoph v.d. Malsburg,2012-12-06 the outcome of a NATO Advanced Research Workshop ARW This book is held in Neuss near

Dusseldorf Federal Republic of Germany from 28 September to 2 October 1987 The workshop assembled some 50 invited experts from Europe America and Japan representing the fields of Neuroscience Computational Neuroscience Cellular Automata Artificial Intelligence and Computer Design more than 20 additional scientists from various countries attended as observers The 50 contributions in this book cover a wide range of topics including Neural Network Architecture Learning and Memory Fault Tolerance Pattern Recognition and Motor Control in Brains versus Neural Computers Twelve of these contributions are review papers The readability of this book was enhanced by a number of measures The contributions are arranged in seven chapters A separate List of General References helps newcomers to this rapidly growing field to find introductory books The Collection of References from all Contributions provides an alphabetical list of all references quoted in the individual contributions Separate Reference Author and Subject Indices facilitate access to various details Group Reports following the seven chapters summarize the discussions regarding four specific topics relevant for the state of the art in Neural Computers

Data Fusion for Sensory Information Processing Systems James J. Clark, Alan L.

Yuille, 2013-03-09 The science associated with the development of artificial sensory systems is occupied primarily with determining how information about the world can be extracted from sensory data For example computational vision is for the most part concerned with the development of algorithms for distilling information about the world and recognition of various objects in the environment e.g. localization of objects from visual images e.g. photographs or video frames There are often a multitude of ways in which a specific piece of information about the world can be obtained from sensory data A subarea of research into sensory systems has arisen which is concerned with methods for combining these various information sources This field is known as data fusion or sensor fusion The literature on data fusion is extensive indicating the intense interest in this topic but is quite chaotic There are no accepted approaches save for a few special cases and many of the best methods are ad hoc This book represents our attempt at providing a mathematical foundation upon which data fusion algorithms can be constructed and analyzed The methodology that we present in this text is motivated by a strong belief in the importance of constraints in sensory information processing systems In our view data fusion is best understood as the embedding of multiple constraints on the solution to a sensory information processing problem into the solution process

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