

preface by Professor Michael Swann FRS

MACHINE INTELLIGENCE

edited by B. Meltzer and D. Michie

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Machine Intelligence Volume 4

Y Pai

Machine Intelligence Volume 4:

Syntactic and Structural Pattern Recognition Gabriel Ferrate, Theo Pavlidis, Alberto Sanfeliu, Horst Bunke, 2012-12-06

Thirty years ago pattern recognition was dominated by the learning machine concept that one could automate the process of going from the raw data to a classifier. The derivation of numerical features from the input image was not considered an important step. One could present all possible features to a program which in turn could find which ones would be useful for pattern recognition. In spite of significant improvements in statistical inference techniques progress was slow. It became clear that feature derivation was a very complex process that could not be automated and that features could be symbolic as well as numerical. Furthermore the spatial relationship amongst features might be important. It appeared that pattern recognition might resemble language analysis since features could play the role of symbols strung together to form a word. This led to the genesis of syntactic pattern recognition pioneered in the middle and late 1960's by Russel Kirsch, Robert Ledley, Nararimhan and Allan Shaw. However the thorough investigation of the area was left to King Sun Fu and his students who until his untimely death produced most of the significant papers in this area. One of these papers, syntactic recognition of fingerprints, received the distinction of being selected as the best paper published that year in the IEEE Transaction on Computers. Therefore syntactic pattern recognition has a long history of active research and has been used in industrial applications.

Scientific and Technical Aerospace Reports, 1983 **Advances and Applications of DSmT for Information**

Fusion, Vol. IV Florentin Smarandache, Jean Dezert, 2015-03-01. The fourth volume on Advances and Applications of Dezert-Smarandache Theory DSmT for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics. The contributions see List of Articles published in this book at the end of the volume have been published or presented after disseminating the third volume 2009 <http://fs.gallup.unm.edu/DSmT/book3.pdf> in international conferences, seminars, workshops and journals. *Advances in Pattern Recognition* Francesc J. Ferri, Jose M. Inesta, Adnan Amin, Pavel Pudil, 2000-08-23. This book constitutes the joint refereed proceedings of the 8th International Workshop on Structural and Syntactic Pattern Recognition and the 3rd International Workshop on Statistical Techniques in Pattern Recognition SSPR 2000 and SPR 2000 held in Alicante, Spain in August/September 2000. The 52 revised full papers presented together with five invited papers and 35 posters were carefully reviewed and selected from a total of 130 submissions. The book offers topical sections on hybrid and combined methods, document image analysis, grammar and language methods, structural matching, graph based methods, shape analysis, clustering and density estimation, object recognition, general methodology and feature extraction and selection. *Course Notes*, 1993 *Proceedings of the Workshop on Physics-based Modeling in Computer Vision*, 1995. The proceedings of the June 1995 workshop sponsored by the IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence comprise 24 papers in six technical sessions: shape estimation, IR, SAR and invariants, nonrigid motion analysis, illumination, reflectance and shape.

Proceedings of ... ACM/IEEE-CS Joint Conference on Digital Libraries ,2002 *Вычислительные Машины И Искусственный Интеллект ,1998* *Sensors, and Command, Control, Communications, and Intelligence (C3I)*
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Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence ,2005 **Environment and Planning ,1986** **Pattern-directed Inference Systems** Donald Arthur Waterman,Frederick Hayes-Roth,1978
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