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Lionel Prevost Simone Marinai
Friedhelm Schwenker (Eds.)

Artificial Neural Networks in Pattern Recognition

Third IAPR Workshop, ANNPR 2008
Paris, France, July 2-4, 2008
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Series Editors

Randy Goebel, University of Alberta, Edmonton, Canada
Jörg Siekmann, University of Saarland, Saarbrücken, Germany
Wolfgang Wahlster, DFKI and University of Saarland, Saarbrücken, Germany

Volume Editors

Lionel Prevost
ISIR, Université Pierre et Marie Curie - Paris 6
75252 Paris, France
E-mail: lionel.prevost@upmc.fr

Simone Marinai
Dipartimento di Sistemi e Informatica
Università di Firenze
50139 Firenze, Italy
E-mail: marinai@dsi.unifi.it

Friedhelm Schwenker
Institute of Neural Information Processing
University of Ulm
89069 Ulm, Germany
E-mail: friedhelm.schwenker@uni-ulm.de

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Preface

The Third IAPR TC3 Workshop on Artificial Neural Networks in Pattern Recognition, ANNPR 2008, was held at Pierre and Marie Curie University in Paris (France), July 2–4, 2008. The workshop was organized by the Technical Committee on Neural Networks and Computational Intelligence (TC3) that is one of the 20 TCs of the International Association for Pattern Recognition (IAPR). The scope of TC3 includes computational intelligence approaches, such as fuzzy systems, evolutionary computing and artificial neural networks and their use in various pattern recognition applications. ANNPR 2008 followed the success of the previous workshops: ANNPR 2003 held at the University of Florence (Italy) and ANPPR 2006 held at Reisensburg Castle, University of Ulm (Germany). All the workshops featured a single-track program including both oral sessions and posters with a focus on active participation from every participant.

In recent years, the field of neural networks has matured considerably in both methodology and real-world applications. As reflected in this book, artificial neural networks in pattern recognition combine many ideas from machine learning, advanced statistics, signal and image processing for solving complex real-world pattern recognition problems.

High quality across such a diverse field of research can only be achieved through a rigorous and selective review process. For this workshop, 57 papers were submitted out of which 29 were selected for inclusion in the proceedings. The oral sessions included 18 papers, while 11 contributions were presented as posters. ANNPR 2008 featured research works in the areas of supervised and unsupervised learning, multiple classifier systems, pattern recognition in signal and image processing, and feature selection.

We would like to thank all authors for the effort they put into their submissions, and the Scientific Committee for taking the time to provide high-quality reviews and selecting the best contributions for the final workshop program.

A number of organizations supported ANNPR 2008 including the IAPR, TC3, and the Pierre and Marie Curie University. Last, but not least, we are grateful to Springer for publishing the ANNPR 2008 proceedings in their LNCS/LNAI series.

April 2008

Lionel Prevost
Simone Marinai
Friedhelm Schwenker

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