Combining Pattern Classifiers: Methods and Algorithms

By Ludmila I. Kuncheva

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Covering pattern classification methods, Combining Classifiers: Ideas and Methods focuses on the important and widely studied issue of how to combine several classifiers together in order to achieve improved recognition performance. It is one of the first books to provide unified, coherent, and expansive coverage of the topic and as such will be welcomed by those involved in the area. With case studies that bring the text alive and demonstrate 'real-world' applications it is destined to become essential reading.

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Editorial Review

Review
The well written 'Combining Pattern Classifiers'…is all about how patterns are to be recognized and interpreted." (*Journal of Statistical Computation and Simulation*, March 2006)

"In a clear and straightforward manner, the author provides a much-needed road map through a multifaceted and often controversial subject…" (*International Journal of General Systems*, June 2005)

"The book is very interesting and is written on a high scientific level…" (*Mathematical Reviews*, 2006c)

"...a unique and perfect book for researchers and practitioners who want to get a grasp of this new exciting area." (*Journal of Intelligent & Fuzzy Systems*, Vol. 16, No. 2, 2005)

"...a well-written and timely book, the first of its kind...a welcome contribution to pattern recognition...I would keep this book in my library." (*Technometrics*, November 2005)

"…destined to become essential reading…" (*Zentralblatt MATH*, Vol. 1066 (17), 2005)

From the Back Cover
A unified, coherent, and expansive treatment of current classifier ensemble methods

Mail sorting, medical test reading, military target recognition, signature verification, meteorological forecast, DNA matching, fingerprint recognition. These are just a few of the areas requiring reliable, precise pattern recognition.

Although in the past, pattern recognition has focused on designing single classifiers, recently the focus has been on combining several classifiers and getting a consensus of results for greater accuracy. This interest in combining classifiers has grown astronomically in recent years, evolving into a rich and dynamic, if loosely structured, discipline. Combining Pattern Classifiers: Methods and Algorithms represents the first attempt to provide a comprehensive survey of this fast-growing field. In a clear and straightforward manner, the author provides a much-needed road map through a multifaceted and often controversial subject while effectively organizing and systematizing the current state of the art.

Covering a broad range of methodologies, algorithms, and theories, the text addresses such questions as:

- Why should we combine classifiers?
- What are the current approaches for building classifier ensembles?
- What fusion methods can we use?
- How do we measure diversity in a classifier ensemble and is diversity really a key factor to its success?

Replete with case studies and real-world applications, this groundbreaking text will be of interest to academics and researchers in the field seeking both new classification tools and new uses for the old ones.

About the Author
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Norma Wilson:

Playing with family inside a park, coming to see the coastal world or hanging out with good friends is thing that usually you may have done when you have spare time, and then why you don't try thing that really opposite from that. 1 activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of knowledge. Even you love Combining Pattern Classifiers: Methods and Algorithms, you may enjoy both. It is very good combination right, you still would like to miss it? What kind of hang type is it? Oh occur its mind hangout folks. What? Still don't get it, oh come on its referred to as reading friends.

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