The 20th Anniversary of the *IEEE Transactions on Pattern Analysis and Machine Intelligence*

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1 INTRODUCTION

W elcome to the "20th Anniversary Special Issue" of the IEEE Transactions on Pattern Analysis and Machine Intelligence. Over the past 20 years, there have been many important advances in the areas of interest to the PAMI community. In this issue, we are pleased to be able to present a collection of five survey papers that reflect on developments in selected areas. These five papers, of course, do not address all areas of interest to the PAMI community. In fact, we hope to have additional surveys appear in a future issue. TPAMI editorial policy strongly encourages authors in what might be termed "value added" survey papers in all major areas of interest to the PAMI community. By "value added" we mean to indicate a paper that gives the reader some value beyond that of a simple annotated bibliography or a plain survey. We look for an additional level of insight into what works and what doesn't, why, and what the open issues are.

2 BRIEF HISTORY OF *TPAMI*

The IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) was started in January 1979 as a quarterly publication with an annual page budget of 480 pages, under the leadership of King Sun Fu. Ta Yun Yang, then president of the IEEE Computer Society, wrote in the inaugural issue, "The first paper in this area was published in IRE Transactions on Computers dates back over two decades... the Computer Society has sponsored or participated in several conferences on pattern analysis and machine intelligence... the Computer Society is also an active member of the International Association for Pattern Recognition... There has been a lack of publications ... for papers in this broad area of interest. The publication of this quarterly is intended to meet such a demand." TPAMI quickly became a bimonthly in 1990 and the subscriptions jumped from 3,000 to 7,000 in the first three years. It reached a peak of over 10,000 in the late 1980s before settling down to the current level of approximately 7,500. TPAMI became a monthly in 1989 and reached its present size of 1,456 editorial pages in 1998.

Editorial direction and leadership to TPAMI has been provided by King Sun Fu (1979-1987), Theo Pavlidis (1987-1990), Steven L. Tanimoto (1990-1990), Anil K. Jain (1991-1994), and Rangachar Kasturi (1995-1998) during its first two decades. They were assisted by many outstanding in-

dividuals in various capacities such as advisory editor, associate editor, guest editor, and production editor. A list of associate editors is included at the end of this editorial.

Topics of papers published in TPAMI, as well as its devoted scope, have gradually changed over the years, to reflect the changes in research trends, as well as the introduction of other IEEE publications covering topics that were once covered in TPAMI. The first issue of TPAMI listed topics such as speech analysis, natural language analysis, and inference systems in its scope. Soon, TPAMI established itself as the premier journal for papers in pattern recognition and computer vision. The early years of TPAMI also saw the debate concerning the imbalance between the PA and MI components. This continued for quite some time until TPAMI became established as the leading journal of our field.

One of the constant concerns for editors of TPAMI during the first two decades was the review/revision/publication cycle time. This is reflected by comments such as the following—"most common suggestion was that I should speed up the editorial process" in an editorial by Pavlidis in September 1982, "we will be working to expand the editorial board ... to reduce the time" in an editorial by Tanimoto in November 1990, "Two of the various concerns ... are delays in the review... and the publication delays once a manuscript has been accepted" in an editorial by Jain in February 1991, and "I am concerned [about] our publication backlog" in an editorial by Kasturi in February 1996. We are fortunate that, as a result of many actions taken by the past editors and the cooperation of the entire PAMI community, this problem has finally been solved. In recent months, we have had papers appear in print in as short as six months from the time of submission. (See additional comments below.)

3 THIS 20TH ANNIVERSARY ISSUE

The IEEE Transactions on PAMI has actually just completed its 21st year of publication. The concept for this special issue began before TPAMI had completed its 20th year, under Rangachar Kasturi's term as EIC. The natural constraints of editorial planning, authors' creative work, review, and production led to the first group of survey papers appearing in this issue. Due to constraints of scheduling and length, several additional survey papers recognizing this occasion should appear in another issue in the near future.

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Philip Golden,Hervé Dedieu,Krista S. Jacobsen

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