Special Issue of Image & Vision Computing

# Projection-Based Transforms

**Guest Editors:**

**E.R. Davies**
University of London

**M. Atiquzzaman**
Monash University, Australia

Call for Papers

Papers are solicited for a Special Issue of Image and Vision Computing which address the subject of Projection-Based Transforms. A large amount of work has been carried out on the detection and recognition of objects in images using projection-based transforms such as Radon and Hough transforms. Special algorithms, techniques, and implementations have been developed to reduce the execution times of such algorithms and to increase the accuracy of the detection and recognition process. The field has become a mature subject and is of high relevance to practical implementations in areas such as medical imaging, surveillance, agriculture and factory automation.

Papers describing novel contributions which describe the subject of Projection-Based Transforms are invited for the Special Issue. Both theoretical and experimental contributions from academia and industry are welcome. The goal of the Special Issue is to gather significant research results that explore such algorithms and techniques. It is intended to interpret the subject rather widely, to avoid excluding important cognate topics such as geometric invariance and sampling strategies. The Special Issue will also identify the future directions of research in this field. Possible topics include (but are not limited to):

- Efficient projection-based transforms
- Structural indexing
- Clustering techniques
- Geometric grouping
- Analysis of peak detection accuracy
- Evidence-based recognition
- Probabilistic peaking
- Multiprocessor implementations

*Five* copies of complete manuscripts (not to exceed 30 double-spaced pages) should be sent to either of the guest editors by the deadline given below. Authors should follow the author's guidelines for paper submission of Image and Vision computing.

**Guest Editors:**

Professor E.R. Davies
Department of Physics
Royal Holloway, University of London
Egham, Surrey TW20 OEX, UK
tel: +44 (0) 1784 443497
fax: +44 (0) 1784 472794
email: E.R.Davies@rhbnc.ac.uk
http://www.rhbnc.ac.uk/~uhap041

Dr. M. Atiquzzaman
Dept. of Elect. & Comp. Syst. Engg
Monash University, Clayton
Melbourne 3168, Australia
tel: +61 3 9905 5383
fax: +61 3 9905 3454
email: atiq@eng.monash.edu.au
http://www.monash.edu.au/~atiq

**Important Dates:**

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| Deadline for receipt of manuscripts: | 15 January 1997 |
| Notification of acceptance/rejection: | 30 June 1997 |
| Expected date of publication: | November 1997 |

ASCII and Postscript versions of this announcement and the author's guidelines for Image and Vision Computing are available from http://www.monash.edu.au/~atiq