Top-tier Journal Publishing Venues

The faculty of the PhD program have created the following Journal List to provide guidance to PhD students regarding the unarguably highest quality publication venues. A full-length original research published on this list fulfills the PhD publication requirement. Note that there are additional methods for fulfilling the publication requirement, as documented in the Publication Requirement Policy. If another venue is considered as equivalent, the advisor of a student should provide a written justification to PhD Director for approval.

This list should not be used for other purposes. It is intended for guidance, and represents current faculty opinion. It is not comprehensive -- there may be other high quality venues that do not appear on this list. Students may find the list useful as a means to compare their work to the finest current research in various computing fields and subfield.

This list will be maintained and updated by the Curriculum and Assessment Committee with input from PhD faculty.

Applications

IJDAR – International Journal on Document Analysis and Recognition

Artificial Intelligence

AIJ - Artificial Intelligence Journal
JAIR - Journal of Artificial Intelligence Research

Biomedical Applications

PBMB - Progress in Biophysics & Molecular Biology
MedIA - Medical Image Analysis
TMI - IEEE Transactions on Medical Imaging
ANBE - Annals of Biomedical Engineering
TBME - IEEE Transactions on Biomedical Engineering

Communications

TCOMM - IEEE Transactions on Communications
TWireless - IEEE Transactions on Wireless Communications
JSAC - IEEE Journal on Selected Areas in Communications (TIT)

Computer Architecture and/or VLSI

TC - IEEE Transactions on Computers
TVLSI - IEEE Transactions on VLSI
**Computer Graphics**

TOG - ACM Transactions on Graphics
TVCG - IEEE Transactions on Visualization and Computer Graphics

**Computer Vision**

PAMI - IEEE Transactions on Pattern Analysis and Machine Intelligence
IJCV - International Journal of Computer Vision

**Databases**

TODS – ACM Transactions on Database Systems
VLDB – The VLDB Journal
TKDE - IEEE Transactions on Knowledge and Data Engineering

**High Performance Computing**

TOCS – ACM Transactions on Computer Systems
TPDS – IEEE Transactions on Parallel and Distributed Systems
JPDC – Journal of Parallel and Distributed Computing

**Human Computer Interaction**

IJMMS - International Journal of Human-computer Studies / International Journal of Man-machine Studies
TOCHI - ACM Transactions on Computer-human Interaction

**Information Retrieval and Computational Linguistics**

TOIS - ACM Trans. on Information Systems
Information Retrieval, Springer (added by Bo Yuan)
Computational Linguistics, MIT Press (added by Bo Yuan)

**Machine Learning**

JMLR - Journal of Machine Learning Research
Neural Computation – MIT Press (PAMI)
ML – Machine Learning
IEEE Trans. on Neural Networks

**Mobile Computing**

TMC - IEEE Transactions on Mobile Computing
Multimedia

TMM - IEEE Transactions on Multimedia
TIP - IEEE Transactions on Image Processing
MMS - Multimedia Systems

Networking

ToN - ACM/IEEE Transactions on Networking
ACM Computer Communication Review
Computer Networks Journal

Programming Languages

TOPLAS – ACM Transactions on Programming Languages and Systems

Pattern Recognition

PR - Pattern Recognition
(PAMI)

Security

TISSEC - ACM Transactions on Information and System Security
JOC – Journal of Cryptology

Signal Processing

TSP - IEEE Transactions on Signal Processing

Software Engineering

TOSEM - Transactions on Software Engineering and Methodology
TSE - Transactions on Software Engineering

Systems

TOCS - ACM Transactions on Computer Systems
SIGOPS - ACM Operating Systems Review
TPDS - IEEE Transactions on Parallel and Distributed Systems

Theory

JACM - Journal of the ACM
SICOMP - SIAM Journal on Computing
TCS - Theoretical Computer Science