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.

Accessibility Research

TACCESS - ACM Transactions on Accessible Computing
UAIS - Universal Access in the Information Society

Affective Computing

TAC - IEEE Transactions on Affective Computing

Applications

IJDAR – International Journal on Document Analysis and Recognition

Artificial Intelligence

AIJ - Artificial Intelligence Journal
AIM - Artificial Intelligence in Medicine
JAIR - Journal of Artificial Intelligence Research

Artificial Intelligence in Computational Social Sciences

JAAMAS - Journal of Autonomous Agents and Multi-Agent Systems
TEAC - ACM Transactions on Economics and Computation
GEB - Games and Economic Behavior Journal (Elsevier)

Biomedical Applications

ANBE - Annals of Biomedical Engineering
MedIA - Medical Image Analysis
TMI - IEEE Transactions on Medical Imaging
TBME - IEEE Transactions on Biomedical Engineering

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

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

Computing Education Research

TOCE - ACM Transactions on Computing Education

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

IJHCS - International Journal of Human-computer Studies
TOCHI - ACM Transactions on Computer-human Interaction

Information Retrieval and Computational Linguistics

Computational Linguistics, MIT Press
Information Retrieval, Springer
TOIS - ACM Transactions on Information Systems

Internet, Web, and Service computing

TSC - IEEE Transactions on Service Computing

Machine Learning

IEEE Transactions on Neural Networks
JMLR - Journal of Machine Learning Research
ML - Machine Learning
Neural Computation, MIT Press
(PAMI) - IEEE Transactions on Pattern Analysis and Machine Intelligence

Multimedia

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

Natural Language Processing

CL - Computational Linguistics
CSL - Computer Speech & Language
TACL - Transactions of the Association for Computational Linguistics
TASLP – IEEE Transactions on Audio Speech and Language Processing

Networking and Wireless Communications

ACM Computer Communication Review
JSAC - IEEE Journal on Selected Areas in Communications
TCOMM - IEEE Transactions on Communications
ToN - ACM/IEEE Transactions on Networking
TMC - IEEE Transactions on Mobile Computing
TWireless - IEEE Transactions on Wireless Communications

Programming Languages

TOPLAS - ACM Transactions on Programming Languages and Systems

Updated in April, 2018 based on PhD faculty input and ranking lists [1,2]

<u>Security</u>

JOC - Journal of Cryptology
TDSC - IEEE Transactions on Dependable and Secure Computing
TIFS - IEEE Transactions on Information Forensics and Security
TOPS - ACM Transactions on Information and System Security (formerly TISSEC)

<u>Signal Processing</u>

ToIT - IEEE Transactions on Information Theory
TSP - IEEE Transactions on Signal Processing

<u>Software Engineering</u>

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

<u>Systems</u>

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

<u>Theory</u>

Algorithmica
JACM - Journal of the ACM
SIAMA – SIAM Journal on Discrete Mathematics
SICOMP - SIAM Journal on Computing
TCS – Theoretical Computer Science

References

[1] http://www.eigenfactor.org/projects/journalRank/journalsearch.php
[2] http://www.scimagojr.com/journalsearch.php

Updated in April, 2018 based on PhD faculty input and ranking lists [1,2]