Academic Conference Deadlines for Multi-Agent Medical Decision Making Research

IMPORTANT: Deadlines after October 20, 2025 (ideally 1 week+ out) through early 2026

Research on multi-agent systems for medical decision making can target conferences across AI/ML, medical AI, multi-agent systems, and healthcare informatics venues. This report covers all tiers (A*/A, B, and other relevant venues) with upcoming submission opportunities.

Immediate Opportunities (Next 2 Weeks)

W3PHIAI-26: 10th International Workshop on Health Intelligence

Submission Deadline: October 20, 2025 (TODAY - final hours with AoE timezone)
Conference Dates: January 26-27, 2026
Location: Singapore EXPO (co-located with AAAI-26)
Tier: Workshop at A* conference (AAAI)

Relevance: 🌟 🌟 🌟 HIGHLY RELEVANT - Special theme on "Foundation Models and Agentic AI in Healthcare" with explicit focus on AI agents, clinical decision support, conversational agents, and multi-agent collaboration in healthcare.

Key Topics: Agentic AI, clinical decision support, shared decision making, predictive modeling, conversational agents, multimodal learning w3phi

Submission Types: Full papers (8 pages), short papers (4 pages), posters/demos (2 pages), single-blind review

Publication: Selected papers invited to special issues in IEEE JBHI, Artificial Intelligence in Medicine, NPJ Digital Medicine (Nature)

Website: http://w3phiai2026.w3phi.com/
Submission: https://easychair.org/conferences/?conf=w3phiai26

ICAART 2026: 18th International Conference on Agents and Artificial Intelligence

Submission Deadline: October 22, 2025 (Extended)
Conference Dates: March 5-7, 2026
Location: Marbella, Spain
Tier: B-tier international conference

Relevance: ⭐ ⭐ RELEVANT - Multi-agent systems and distributed AI focus with applications track. Suitable for multi-agent healthcare systems.

Key Topics: Agents, multi-agent systems, distributed problem solving, agent-based simulation, knowledge representation, NLP, LLMs

Submission Types: Regular papers (6-8 pages), position papers

Publication: SCITEPRESS proceedings (indexed in Scopus, Ei Compendex, Web of Science); selected papers invited to Springer LNAI (Scitevents)

Website: https://icaart.scitevents.org/ (scitevents)
Submission: Via INSTICC Primoris system

IPCAI 2026: Information Processing in Computer-Assisted Intervention

Intention to Submit: October 23, 2025
Full Paper Deadline: October 30, 2025 (NO EXTENSIONS)
Conference Dates: July 2-3, 2026
Location: Nagoya, Japan
Tier: Mid-tier specialized conference

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Focuses on AI for surgical interventions and computer-assisted procedures. Multi-agent approaches excellent for coordinating surgical planning, real-time guidance, and intraoperative decision support.

Key Topics: Computer-assisted surgery, surgical robotics, intraoperative imaging, surgical planning, AI for interventional procedures

Publication: Conference proceedings

Website: https://sites.google.com/view/ipcai2026/
Info: www.ipcai.org

ISBI 2026: IEEE International Symposium on Biomedical Imaging

Submission Deadline: October 31, 2025
Conference Dates: April 8-11, 2026
Location: London, United Kingdom
Tier: Top-tier (IEEE flagship, joint IEEE SPS and EMBS) (Biomedicalimaging)

Relevance: ⭐ ⭐ MODERATELY RELEVANT - Premier medical imaging conference. Multi-agent systems applicable to distributed image analysis, collaborative diagnosis, and coordinated interpretation of multimodal imaging.

Key Topics: Medical image analysis and AI, biomedical imaging algorithms, deep learning for medical imaging, computer-assisted intervention, mathematical and computational aspects (Biomedicalimaging)

Publication: IEEE Xplore proceedings (4-page papers), plus 1-page abstracts (non-archival) (Biomedicalimaging)

Website: https://biomedicalimaging.org/2026/
Submission: https://biomedicalimaging.org/2026/contributors/papers/

WMAC 2026: AAAI Bridge Program on LLM-Based Multi-Agent Collaboration

Submission Deadline: October 31, 2025
Workshop Date: January 20, 2026
Location: Singapore (co-located with AAAI-26)
Tier: Workshop at A* conference (AAAI)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Directly addresses LLM-based multi-agent systems. Healthcare applications of multi-agent LLM systems increasingly used for medical diagnosis and clinical decision support.

Key Topics: Interoperability of LLM-based agents, coordination & planning, knowledge sharing, memory architectures, multi-agent evaluation (multiagents)

Submission Types: Short papers (4 pages), long papers (8 pages), double-blind review. Accepts recently published work, under-review papers, work in progress. (multiagents)

Publication: Non-archival (accepted papers featured on website)

Website: https://multiagents.org/2026/
Submission: https://openreview.net/group?id=AAAI.org/2026/Workshop/WMAC

Upcoming Opportunities (November - December 2025)

AAMAS 2026: 25th International Conference on Autonomous Agents and Multiagent Systems

Main Track Deadline: CLOSED (October 8, 2025)

OPEN Special Tracks:

- **Workshop Proposals:** November 10, 2025

- **Competition Proposals:** November 10, 2025

- **AAAI Track:** November 17, 2025 (for AAAI-25 rejected papers)

- **Blue Sky Ideas Track:** December 3, 2025 (visionary ideas, long-term challenges)

- **Workshop Proposals:** December 15, 2025

- **JAAMAS Track:** January 6, 2026 (recently published JAAMAS papers)

- **Demo Track:** January 9, 2026

- **Tutorial Proposals:** January 16, 2026

- **Doctoral Consortium:** January 19, 2026

Conference Dates: May 25-29, 2026 (Main: May 27-29) (Cyprusconferences)
Location: Paphos, Cyprus (cyprusconferences) (Ispr)
Tier: A* (CORE), A (CCF) - Flagship multi-agent systems conference

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - THE premier venue for multi-agent systems research. Explicitly welcomes healthcare applications in the Innovative Applications area, with healthcare disaster management and medical systems as key examples.

Key Topics: 11 areas including Learning & Adaptation, Generative & Agentic AI, Game Theory, Multi-agent Coordination, Innovative Applications (including healthcare) (Cyprusconferences)

Publication: IFAAMAS proceedings + ACM Digital Library, open access (CC-BY) (Cyprusconferences)

Website: https://cyprusconferences.org/aamas2026/
Submission: https://openreview.net/group?id=ifaamas.org/AAMAS/2026/Conference

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ICAART 2026: Special Session Papers

Submission Deadline: December 17, 2025 (scitevents)
Conference Dates: March 5-7, 2026
Location: Marbella, Spain

Special Sessions: Speech and Text Processing for Low-Resource Languages, Fairness/Interpretability/Security in AI, Emotions and Affective Agents

(See full details above)

AMIA 2026 Amplify Informatics Conference

Submission Deadline: December 2, 2025 (11:59 PM EDT) - FIRM, NO EXCEPTIONS (Secure-platform)
(Secure-platform)

Conference Dates: May 18-21, 2026

Location: Denver, Colorado, USA

Tier: Top-tier (AMIA flagship - premier U.S. biomedical informatics)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Combines Clinical Informatics + Informatics Summit (American Medical Informatics …) with explicit AI/Data Science track. Perfect for multi-agent clinical decision support systems.

Key Topics: Three tracks - Clinical Research Informatics, Translational Bioinformatics, AI/Data Science. (amia) Focus on precision medicine, LLMs in healthcare, generative AI, reinforcement learning, clinical decision support, EHR optimization, real-world evidence.

Submission Types: Papers (5-10 pages), student papers, podium abstracts (2 pages), posters (1 page), panels, debates, workshops, demos. (amia) Double-blind review for papers.

Publication: AMIA proceedings

Website: https://amia.org/education-events/amplify-informatics-conference
Submission: https://amia.secure-platform.com/amplify/

ICMHI 2026: 10th International Conference on Medical and Health Informatics

Submission Deadline: December 10, 2025
Notification: January 10, 2026 (icmhi)
Conference Dates: May 15-17, 2026 (Iconf +2)
Location: Kyoto, Japan (Iconf) (Icmhi)
Tier: Mid-tier (indexed in Ei Compendex, Scopus) (Iconf) (Icmhi)

Relevance: ⭐ ⭐ ⭐ RELEVANT - Theme "One World: A Decade of Collaborative Medical Informatics." (Iconf) Good for computational intelligence approaches to healthcare.

Key Topics: Biomedical data mining, computational intelligence methodologies, big data for healthcare, collaboration technologies, personalized treatment, cloud computing applications (Iconf +2)

Publication: Conference proceedings (Ei/Scopus indexed). Selected papers invited to special issues in Frontiers, MDPI Diagnostics. (Iconf)

Late January - February 2026 Opportunities

ICHI 2026: IEEE International Conference on Healthcare Informatics

Submission Deadline: January 31, 2026 (Regular track) (github)
Workshop Proposals: December 15, 2025 (Zhang-informatics)
Conference Dates: June 1-4, 2026 (github)
Location: Minneapolis, Minnesota, USA (University of Minnesota + Mayo Clinic) (X)
Tier: Top-tier (IEEE flagship for healthcare informatics) (Zhang-informatics)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Premier IEEE venue with explicit clinical decision support focus. Multi-agent architectures perfect for Analytics or Systems tracks. (Zhang-informatics)

Three Tracks:

1. **Analytics Track** - AI/ML-based decision support, generative AI, predictive modeling, NLP, explainability (github)

2. **Human Factors Track** - User-centered health IT, socio-technical studies (github)

3. **Systems Track** - Clinical decision support, learning health systems, data platforms, patient-facing systems (github)

Submission Types: Regular papers (10 pages), short papers (6 pages), single-blind review with 3+ reviewers (github)

Publication: IEEE Xplore proceedings. Selected papers invited to Journal of Healthcare Informatics Research. (github)

Website: https://zhang-informatics.github.io/ICHI2026/
Submission: https://openreview.net/group?id=IEEE.org/ICHI/2026/Conference

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KDD 2026: Knowledge Discovery and Data Mining (Second Cycle)

Abstract Deadline: February 1, 2026 (kdd)
Paper Deadline: February 8, 2026 (kdd)
Conference Dates: August 9-13, 2026
Location: Jeju, South Korea
Tier: A* (CORE)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Premier data science/AI conference. Strong medical AI community. Multi-agent data mining and clinical decision support fit well.

Key Topics: Multi-agent learning, distributed data mining, healthcare data mining, clinical decision support, bioinformatics, modern AI, LLMs, trustworthy data science

Tracks: Research Track, Applied Data Science Track, Datasets & Benchmarks

Publication: ACM proceedings

Website: https://kdd2026.kdd.org
Submission: OpenReview

CHIL 2026: Conference on Health, Inference, and Learning

Submissions Open: December 10, 2025
Submission Deadline: February 4, 2026
Conference Dates: June 28-30, 2026
Location: TBA
Tier: Top-tier (PMLR proceedings, official conference of AHLI)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Premier ML for healthcare venue. Multi-agent medical decision support fits Track 1 (Methods) or Track 2 (Applications).

Three Tracks:

1. **Models and Methods** - Novel algorithms, inference, technical contributions

2. **Applications and Practice** - Evaluation, deployment, benchmarking

3. **Impact and Society** - Fairness, ethics, responsible AI

Submission Format: 8-10 pages (unlimited references), double-blind review. Reciprocal reviewing requirement (must nominate reviewer).

Publication: PMLR (Proceedings of Machine Learning Research) - open access

Website: https://chil.ahli.cc/
Submission: OpenReview

MICCAI 2026: Medical Image Computing and Computer Assisted Intervention

Paper Registration: February 2026 (exact date TBA)

Paper Submission: February 2026 (exact date TBA)
Conference Dates: October 4-8, 2026
Location: ADNEC Centre, Abu Dhabi, UAE
Tier: Top-tier (CORE A, Springer LNCS)

Relevance: ⭐ ⭐ ⭐ MODERATELY-TO-HIGH RELEVANT - Premier medical imaging venue. Multi-agent systems applicable to distributed image analysis, collaborative diagnosis, multi-modal imaging interpretation, surgical planning.

Key Topics: Medical image computing, computer-assisted interventions, ML for medical imaging, image-guided surgery, medical robotics

Publication: Springer Lecture Notes in Computer Science (LNCS)

Website: https://conferences.miccai.org/2026/
Dates: https://conferences.miccai.org/2026/en/IMPORTANT-DATES.html

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CBMS 2026: 39th IEEE Symposium on Computer-Based Medical Systems

Submission Deadline: February 20, 2026 (AoE)
Special Track Proposals: October 24, 2025 (may still be open)
Conference Dates: June 3-5, 2026 (Cbms-conference +2)
Location: Limassol, Cyprus (Cbms-conference +2)
Tier: B (CORE) - IEEE flagship medical systems (Cbms-conference +3)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Explicit tracks for "Decision Support and Recommendation Systems" and "Explainable AI for Decision Support." (CCS) Perfect fit for multi-agent clinical decision support.

Key Topics: Decision support systems, explainable AI, digital twins, personalized AI models, generative AI for biomedicine, cognitive computing, clinical decision support, medical robotics (CCS)

Format: Exclusively in-person (no virtual)

Publication: IEEE Xplore proceedings

Website: https://2026.cbms-conference.org/
Submission: https://easychair.org/cfp/IEEE-CBMS-2026

Spring 2026 and Beyond

ICML 2026: International Conference on Machine Learning

Submission Deadline: Late January - early February 2026 (exact dates TBA)
Conference Dates: July 6-12, 2026 (ICML)
Location: Seoul, South Korea (GitHub)
Tier: A* (CORE) (Wikipedia)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Flagship ML conference. Strong multi-agent RL, game theory, and ML for healthcare communities. (Wikipedia)

Key Topics: Multi-agent reinforcement learning, game theory, medical AI, ML for healthcare, deep learning, optimization

Publication: PMLR proceedings

Website: https://icml.cc/Conferences/2026 (Wikipedia)

NeurIPS 2026: Neural Information Processing Systems

Abstract Deadline: May 11, 2026 (Aideadlines)
Paper Deadline: May 15, 2026
Conference Dates: December 2-7, 2026
Location: San Diego, California, USA
Tier: A* (CORE) (Mpc-deadlines)

Relevance: ⭐ ⭐ ⭐ HIGHLY RELEVANT - Premier ML/AI conference with strong multi-agent systems (RL, game theory) and medical AI communities.

Key Topics: Multi-agent systems, reinforcement learning, game theory, medical AI, healthcare applications, deep learning, trustworthy AI

Tracks: Main Conference, Datasets & Benchmarks, Position Papers

Publication: NeurIPS proceedings

Website: https://neurips.cc
Submission: https://openreview.net/group?id=NeurIPS.cc/2026/Conference

CVPR 2026: Computer Vision and Pattern Recognition

Submission Deadline: November 2025 - January 2026 (exact dates TBA)

Conference Dates: June 2026 (specific dates vary by source)

Location: Denver, Colorado, USA

Tier: A* (CORE)

Relevance: ⭐ ⭐ MODERATELY RELEVANT - Premier computer vision. Relevant for medical imaging, diagnostic systems, healthcare vision applications. Limited multi-agent focus.

Website: https://cvpr.thecvf.com

ECCV 2026: European Conference on Computer Vision

Submission Deadline: ~March 6-7, 2026 (based on patterns, exact TBA)

Conference Dates: September 8-13, 2026 (Uni-hamburg +2)

Location: Malmö, Sweden (Uni-hamburg +2)

Tier: A* (CORE)

Relevance: ⭐ ⭐ MODERATELY RELEVANT - Biennial computer vision conference. Medical image analysis, computer-assisted diagnosis. Limited multi-agent focus.

Website: https://eccv.ecva.net

Summary by Tier and Deadline

A*/A Tier Conferences (Highest Prestige)

- **October 31, 2025:** WMAC 2026 workshop (at AAAI-26, A*)

- **November-January 2026:** AAMAS 2026 special tracks (A*/A flagship for multi-agent)

- **February 1-8, 2026:** KDD 2026 (A*)

- **February 4, 2026:** CHIL 2026 (Top-tier ML4Health)

- **Late Jan-Feb 2026 (TBA):** ICML 2026 (A*)

- **May 11-15, 2026:** NeurIPS 2026 (A*)

Top Medical/Healthcare Informatics

- **October 31, 2025:** ISBI 2026 (IEEE flagship)

- **December 2, 2025:** AMIA 2026 Amplify (Premier U.S. informatics)

- **January 31, 2026:** ICHI 2026 (IEEE flagship healthcare informatics)

- **February 2026 (TBA):** MICCAI 2026 (CORE A, premier medical imaging)

- **February 20, 2026:** CBMS 2026 (CORE B, IEEE medical systems)

B Tier / Mid-Tier Venues

- **October 22, 2025:** ICAART 2026 (B-tier agents/AI) (scitevents)

- **October 30, 2025:** IPCAI 2026 (Specialized surgical AI)

- **December 10, 2025:** ICMHI 2026 (Regional, Ei/Scopus indexed) (Icmhi)

Workshops at Top Conferences

- **October 20, 2025 (TODAY):** W3PHIAI-26 at AAAI (healthcare AI + agents)

- **October 31, 2025:** WMAC 2026 at AAAI (LLM multi-agent)

Key Recommendations by Research Focus

For Multi-Agent Medical Decision Support Systems:

HIGHEST PRIORITY (Best Fit):

1. **AMIA 2026 Amplify** (Dec 2) - AI/Data Science track, clinical decision support focus

2. **ICHI 2026** (Jan 31) - Analytics/Systems tracks, explicit decision support focus

3. **CHIL 2026** (Feb 4) - Premier ML4Health, methods or applications track

4. **CBMS 2026** (Feb 20) - Explicit decision support and explainable AI tracks

5. **AAMAS 2026 Blue Sky/Demo** (Dec-Jan) - Flagship multi-agent venue

EXCELLENT ALTERNATIVES: 6. **KDD 2026** (Feb 1-8) - Data science + healthcare, multi-agent learning 7. **NeurIPS 2026** (May 11-15) - Multi-agent RL + medical AI communities 8. **ICML 2026** (Late Jan-Feb TBA) - Multi-agent RL + ML for healthcare

SPECIALIZED/NICHE: 9. **IPCAI 2026** (Oct 30) - If surgical/interventional focus 10. **ISBI 2026** (Oct 31) - If medical imaging component 11. **MICCAI 2026** (Feb TBA) - If imaging/computer-assisted intervention

IMMEDIATE WORKSHOPS: 12. **W3PHIAI-26** (Oct 20 TODAY) - Healthcare AI + agentic AI 13. **WMAC 2026** (Oct 31) - LLM multi-agent systems

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Important Notes

Deadline Timezones: Most deadlines are Anywhere on Earth (AoE = UTC-12), giving you up to 24 extra hours from your local timezone. (Cyprusconferences) (Cyprusconferences)

Review Processes: Top venues (AAAI, NeurIPS, ICML, KDD, CHIL, ICHI, AMIA) use rigorous double-blind peer review. Most medical conferences use single-blind.

Open Access: AAMAS 2026 (CC-BY), CHIL 2026 (PMLR), NeurIPS (open proceedings). IEEE and Springer conferences typically require subscription or pay-per-view access.

Workshop Strategy: Workshops (W3PHIAI-26, WMAC 2026) offer faster publication, networking opportunities, and often accept work-in-progress or recently published work. Non-archival workshops allow submission to archival venues later.

Geographic Distribution: Singapore (Jan), Japan (May/July), USA (May/June/Dec), Europe (multiple), Cyprus (May/June), South Korea (July/Aug)

Monitor for Updates: ICML 2026, CVPR 2026, and ECCV 2026 exact deadlines not yet announced. Check official websites regularly.

This comprehensive list covers all major venues across AI, medical AI, multi-agent systems, and healthcare informatics where multi-agent research in medical decision making would be well-received. Prioritize based on your specific research focus (surgical vs. clinical, imaging vs. decision support, theoretical vs. applied) and desired publication venue prestige.