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Call for Papers

The 2023 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2023) will be held on **June 28-30, 2023 in Seattle, WA, USA** (https://aim2023.org/). As the flagship conference on mechatronics and intelligent systems, AIM 2023 will bring together the international mechatronics community to discuss cutting-edge research results, expert perspectives on future developments, and innovative applications in mechatronics, robotics, automation, industrial electronics, and related areas.

The sponsors and organizers of AIM 2023 invite submissions describing original work, including but not limited to the following topics: Actuators, Automotive Systems, Bioengineering, Data Storage Systems, Electronic Packaging, Fault Diagnosis, Human-Machine interfaces, Human-Robot Interaction and Collaboration, Human Factors in Mechatronics Systems, Industry Applications, Information Technology, Intelligent Systems, Machine Vision, Manufacturing, Micro Electro-Mechanical Systems, Micro/Nano Technology, Modeling and Design, System Identification and Adaptive Control, Motion Control, Vibration and Noise Control, Neural and Fuzzy Control, Opto-Electronic Systems, Optomechatronics, Prototyping, Real-Time and Hardware-in-the-Loop Simulation, Robotics, Sensors, System Integration, Transportation Systems, Smart Materials and Structures, Energy Harvesting, and other frontier fields.

We invite high-quality submissions in the categories below. All submissions must be uploaded to the submission website: http://ras.papercept.net/conferences/scripts/start.pl following the schedule below.

Contributed: All papers go through a rigorous peer-review review process. All accepted manuscripts must be presented by the authors at the conference, will be published in the conference proceedings, and will be submitted for inclusion in IEEEXplore, subject to formatting and copyright requirements.

Invited: Invited sessions consist of 4 to 6 thematically related invited papers that will be presented together at the conference. Invited session proposals must include a brief statement of purpose and extended abstracts of the included invited papers. Invited papers are submitted and reviewed following the same process as contributed papers, and are included in the proceedings

Workshops: Half-day or full-day workshops will be in one of two categories: (1) *Tutorial Workshops* focused on educating attendees about an emerging topic and (2) *Research Workshops* focused on bringing together experts to discuss an emerging field. Tutorial and workshop proposals must include a statement of objectives, a description of the intended audience, and a list of speakers with an outline of their planned presentations. Unless specifically requested, individual tutorial and workshop presentations are not peer reviewed, and do not appear in the proceedings.

Special Sessions: Special sessions will be organized to give exhibitors, organizations, and attendees a venue to discuss specialized, new, and not strictly technical topics (such as products) that would not be appropriate for the other submission categories. Special Session proposals must include an abstract of the special session.

Late Breaking Results: Poster presentations on late-breaking mechatronics research results will be presented during the conference. Note that the deadline for posters is much later than the deadline for papers, allowing presenters to share their most recent results. Posters will be peer-reviewed.

TMECH/AIM Focused Section and TMECH Presentation-Only: TMECH authors have two opportunities to share your work at AIM2023. (1) *Presentation Only:* All authors of TMECH papers accepted between Feb. 16, 2022 and Feb. 15, 2023 have the option to present their work during the conference. (2) *Focused Section:* Submissions to the 4th Edition of the Focused Section on TMECH/AIM Emerging Topics will go through the TMECH review process and, if accepted, are presented at AIM2023 and published as part of the focused section published in the August 2023 issue of TMECH. Inclusion in the focused section requires paid registration and presentation. Papers rejected for publication in TMECH will automatically be considered by the Program Committee of AIM 2023 for inclusion in AIM2023 as a contributed paper. Details are available on a supplemental call for papers available on the conference website: https://aim2023.org/ and the TMECH website http://www.ieee-asme-mechatronics.info/.

Important Dates

TMECH/AIM Focused Section Submissions:	January 6, 2023
Invited/Workshop/Special Session Proposals:	January 27, 2023
Contributed and Invited Papers and TMECH Presentation Only:	February 1, 2023
TMECH/AIM First Decision:	March 1, 2023
TMECH/AIM Revisions:	March 25, 2023
Notification of AIM and TMECH/AIM Paper Status:	April 25, 2023
Final Paper Submissions:	May 10, 2023
Late-Breaking Submissions:	May 16, 2023