

## **CMC Microsystems Atlas 800 AI Competition** **("Official Rules")**

### **1. Competition Period**

CMC Microsystems' Atlas 800 AI Competition (the "**Competition**") begins at 08:00 a.m. EST on July 18<sup>th</sup> 2022 and ends at 23:59 p.m. EST on January 15<sup>th</sup>, 2023 (the "**Participation Period**"). By participating in the Competition, each entrant agrees to abide by and be bound by these Official Rules. Entrants further agree to abide by and be bound by all decisions of CMC Microsystems (the "**CMC**" or "**Sponsor**"), which shall be final and binding, without right of appeal, in all matters relating to this Competition and the awarding of the Award including without limitation eligibility and/or disqualification of entries.

### **2. Eligibility**

The Competition is open to legal residents of Canada who: (i) have reached the age of majority in their jurisdiction of residence; and (ii) are Canadian university students with a valid CMC Microsystems subscription. A free trial subscription is also available for new members at <https://cmcmicrosystems.formtitan.com/ProductTrial?ssoauth=ft#/>.

Excluded from eligibility are the officers, directors, employees, agents and representatives of CMC, any Competition judges, and each of their respective parents, subsidiaries, affiliates, distributors, sales representatives, advertising and promotion agencies (collectively, the "**Competition Entities**"), and members of the immediate families (defined as parents, siblings, children and spouses, regardless of where they live) or households (whether or not related) of such officers, directors, employees, agents and representatives.

### **3. How to Enter**

**NO PURCHASE NECESSARY.** Internet access required to enter.

To obtain one (1) entry, visit CMC's webpage <https://www.cmc.ca/ai-competition-on-npu/> ("**Competition Website**") and follow the instructions on the Competition Website to enter. On the entry form, you must include the following:

- Full name
- Month and year of birth
- Contact Information (email and telephone number)
- Supervisor
- University
- Title of the project
- Project Abstract (300 word max)
- Track Choice (multiple submissions possible)
- Short Bio which describes your AI skills and background

Further, you must submit an entry in one of the following Competition Tracks (each a “**Track**”). Your entry must meet the requirements of each track to be considered valid. Entrants can submit an entry in multiple Tracks.

#### **4. Track Submission Details and Prizes**

**1. Track 1—SOTA Model Migration** —A list of candidate models with GPU code open-sourced. Participants may also propose their model of choice; The participants will make necessary adaptations of the training script to train the model on the NPU server with target performance, and open source their implementation.

- **Award:** There are **5 awards** available to be won, ranging between \$2000-5000, which will be allocated as follows:
  - **1<sup>st</sup> place: \$5000**
  - **2<sup>nd</sup> place: \$4000**
  - **3<sup>rd</sup> place: \$3500**
  - **4<sup>th</sup> place: \$2500**
  - **5<sup>th</sup> place: \$2000**
- **Evaluation Criteria:** A panel of judges will evaluate each entry based on the following criteria:
  - **CR1:** Performance of the model running on the NPU including the accuracy and training speed (Weight=70%)
  - **CR2:** Quality of the code and documentation (Weight=15%)
  - **CR3:** Ease of use (Weight =15%)
- **Method of Submission:** Participant's Github url, including training log, Readme, codes that can run on the NPU server, open sourced: e.g. under MIT or Apache license.

**2. Track 2—Research on NPU** — Participants train their model on the NPU and publish paper(s) with their codes **open-sourced**.

- **Award:** There are **3 awards** available to be won up to \$5000 CAD per paper, which will be allocated as follows:
  - **1<sup>st</sup> place: \$5000**
  - **2<sup>nd</sup> place: \$4000**
  - **3<sup>rd</sup> place: \$3500**
- **Evaluation Criteria:** Paper submission and code; For paper not accepted, will be evaluated based on paper and result quality. A panel of judges will evaluate each entry based on the following criteria:
  - **CR1:** Demo and presentation (Weight =50%)
  - **CR3:** Performance of the model running on the NPU including the accuracy and training speed (Weight =20%)
  - **CR4:** Quality of the code and documentation (Weight =15%)
  - **CR5:** Ease of use (Weight =15%)
- **Method of Submission:**

- For accepted papers: Copy of the paper; Code Github URL; code can run on NPU server, open sourced: e.g. under MIT or Apache license.
- For submitted papers: Live presentation and demo

**3. Track 3—Innovative Application on NPU** — Participants build innovative application(s) on the NPU.

- E.g., applications on Robotics/Autonomous driving. [Link for application ideas.](#)
- Cloud AI: Atlas 800 Server can provide web service [\[ref\]](#)
- Edge AI (robotics, autonomous driving, etc): In this case, you can use [Atlas 200 DK](#), the edge AI device, instead Atlas 800.
- Example: [Robot car](#); [Drone](#)
- **Award:** There are 3 awards available to be won, ranging between \$3500-5000, which will be allocated as follows:
  - **1<sup>st</sup> place: \$5000**
  - **2<sup>nd</sup> place: \$4000**
  - **3<sup>rd</sup> place: \$3500**
- **Evaluation Criteria:** A panel of judges will evaluate each entry based on the following criteria:
  - **CR1:** innovation, performance, technical difficulty, usability (Weight =70%)
  - **CR2:** Quality of the code and documentation (Weight =15%)
  - **CR3:** Ease of use (Weight =15%)
- **Method of Submission:** Code Github URL, report, demo video

#### 4. Track 4—Team category

Participants in this track are required to form a team with at least one member from an equity seeking group. The teams can apply to one or multiple tracks.

- **Award:** There are 2 awards available to be won ranging between \$3000-5000 per application, which will be allocated as follows:
  - **1<sup>st</sup> place: \$5000**
  - **2<sup>nd</sup> place: \$3000**
- **Evaluation:** Depends on the selected track.
- **Method of Submission:** Depends on the selected track. See submission details above for each track.

BY ENTERING, YOU ACKNOWLEDGE THAT ANY OPEN-SOURCE CODE AUTHORED BY YOU AND YOUR TEAM, AND SUBMITTED AS PART OF YOUR ENTRY, CAN BE USED BY ANYONE, INCLUDING CMC AND THE COMPETITION ENTITIES, IN ACCORDANCE WITH THE OPEN-SOURCE LICENCE APPLICABLE TO SUCH CODE. By entering, you agree as follows: (i) you acknowledge that any portion of your entry, including any logs, code, papers, demo video, and presentations, may be posted by CMC on the Competition Website or to GitHub in CMC's sole discretion but without obligation to do so; (ii) you have the right and authority to, and do hereby, grant to CMC and the Competition Entities an irrevocable, non-exclusive, royalty-free worldwide license in perpetuity to test, reproduce, store, copy, broadcast, display, distribute, edit, alter, modify, combine with other material, publish, post, and/or otherwise use without limitation all or any part of the entry in any manner or media, including without limitation on the Competition Website, for the purpose of allowing CMC and the Competition Entities to test and evaluate the entry, and to administer the technical and other requirements of the Competition; and (iii) you agree to release and hold harmless CMC from and against any and all claims based on publicity rights, defamation, invasion of privacy, copyright infringement, trade-mark infringement or any other intellectual property related cause of action that relates in any way to CMC or a Competition Entities use of the entry under the licence granted above.

#### 5. Additional Award Details

Awards must be accepted as awarded and may not be substituted or transferred, except at CMC's sole discretion. CMC reserves the right, at its sole discretion, to substitute an award of greater or equivalent monetary value if the Award cannot be awarded as described for any reason. Any other costs or expenses associated with the Award not specified herein will be the responsibility of selected winners.

#### 6. Winner Selection

Between January 15<sup>th</sup>, 2023 and February 15<sup>th</sup>, 2023 a diverse group of qualified evaluators from CMC and Huawei Canada will review all eligible submissions received during the Competition Period. All eligible entries in each Track will be evaluated based on the criteria for each Track. The potential winners of each Track will be notified by [**email/phone number**] on or around February 15<sup>th</sup>, 2023. The odds of being selected will depend on the number of eligible entries received during the Competition Period and the skill in meeting the criteria.

## **7. Selected Entrant Verification and Award Claim Conditions**

Potential winners will be notified at the email address or telephone number indicated on their entry form. In order to be declared an official winner, each selected entrant(s) must: (i) respond to notification of selection within 3 of days business days of first attempt by CMC; (ii) sign and return to CMC, within 3 of days business days of it being sent by CMC, a written declaration and release form, releasing the CMC from any liability in connection with this Competition or the use, misuse, awarding or possession of any Award (the “**Release**”); and, (ii) otherwise comply with these Official Rules.

Return of any winner notification as undeliverable, inability to reach selected entrant or failure of selected entrant to respond to notification within 3 of days of first attempt by CMC or CMC’s agent, failure to provide proof of eligibility (if requested), release documents, or other required documentation in a timely manner or other non-compliance with these Official Rules may result in disqualification, forfeiture of the Award and, at CMC’s sole discretion, selection of an alternate eligible entrant for the forfeited Award in accordance with these Official Rules, who will be subject to disqualification in the same manner.

## **8. Right to Void / Terminate / Suspend / Modify**

CMC reserves the right to terminate, suspend or modify this Competition, in whole or in part, at any time and without notice or obligation if, in CMC’s sole discretion, any factor interferes with its proper conduct as contemplated by these Official Rules. Without limiting the generality of the foregoing, if the Competition, or any part thereof, is not capable of running as planned for any reason, including but not limited to infection by computer virus, bugs, tampering, unauthorized intervention, fraud, timing errors, or technical failures, which, in the sole discretion of CMC, corrupt or affect the administration, security, fairness, integrity or proper conduct of this Competition, CMC may, in its sole discretion, void any suspect entries and: (a) terminate the Competition, or any portion thereof; (b) modify or suspend the Competition, or any portion thereof, to address the impairment and then resume the Competition, or relevant portion, in a manner that best conforms to the spirit of these Official Rules; and/or (c) award the Award from among the eligible, non-suspect entries received up to the time of the impairment in accordance with the winner selection criteria discussed above.

CMC reserves the right at its sole discretion to disqualify any individual who tampers or attempts to tamper with the entry process, the operation of the Competition, violates the Official Rules, or acts with intent to annoy, abuse, threaten or harass any other person.

## **9. Limitation of Liability and Releases**

BY PARTICIPATING IN THIS COMPETITION, ENTRANTS AGREE THAT CMC AND THE COMPETITION ENTITIES HAVE NO LIABILITY WHATSOEVER FOR, AND SHALL BE HELD HARMLESS BY ENTRANTS AGAINST, ANY LIABILITY FOR ANY INJURIES, LOSSES OR DAMAGES OF ANY KIND TO THE FULL EXTENT PERMITTED BY LAW TO PERSONS OR PROPERTY RESULTING FROM THE COMPETITION, INCLUDING THE ACCEPTANCE, POSSESSION, MISUSE OR USE OF THE AWARD. BY PARTICIPATING IN THIS COMPETITION, ENTRANTS AGREE THAT CMC AND COMPETITION ENTITIES HAVE NO LIABILITY WHATSOEVER FOR, AND SHALL BE HELD HARMLESS BY ENTRANTS AGAINST, ANY LIABILITY FOR ANY INJURIES, LOSSES OR DAMAGES OF ANY KIND TO THE FULL EXTENT PERMITTED BY LAW TO PERSONS OR PROPERTY RESULTING FROM: A) ENTRY OR

PARTICIPATION IN THIS COMPETITION, B) ANY CLAIMS BASED ON PERSONALITY OR PRIVACY RIGHTS, DEFAMATION OR MERCHANDISE DELIVERY, OR (C) ANY CLAIMS BASED ON INTELLECTUAL PROPERTY RIGHTS INCLUDED IN AN ENTRY, OR THIRD PARTY CLAIMS THAT AN ENTRY, OR CMC OR COMPETITION ENTITIES' USE OF AN ENTRY, INFRINGES OR OTHERWISE VIOLATES THE THIRD PARTY'S INTELLECTUAL PROPERTY RIGHTS IN ANY MANNER.

Without limiting the foregoing, CMC and the Competition Entities, and any of CMC's other suppliers or contractors, shall not be responsible for: (a) any incomplete or inaccurate information that is caused by entrants, or by any of the equipment associated with or utilized in the Competition, or by any technical or human error which may occur in the processing of submissions in the Competition; (b) lost, interrupted, or unavailable network, server, service provider, on-line systems, telephone networks or telephone lines, or any other connections; (c) the theft, destruction, loss or unauthorized access to, or alteration of, entries; (d) any problems with, or malfunctions or failures of, telephone networks or lines, computers or computer on-line systems, servers or providers, computer equipment, software, viruses or bugs; (e) late, lost, misdirected, garbled transmissions or miscommunications; (f) failure of any e-mail to be received by or from the Competition judges or CMC for any reason, including but not limited to traffic congestion on the Internet or at any website or combination thereof or technical incompatibility; (g) damage to a user's computer equipment (software or hardware) occasioned by participation or downloading of materials related to this Competition; (h) printing, distribution or production errors, and any other errors or malfunctions of any kind, whether human, mechanical, electronic or otherwise; or (i) technical, pictorial, typographical or editorial errors or omissions contained herein.

#### **10. Protection of Personal Information and Publicity Release**

CMC and its authorized agents will collect, use, and disclose your personal information for the purposes of administering the Competition and Award fulfillment. Your personal information will not otherwise be used by CMC except for the administration of this Competition, and otherwise in accordance with applicable law and CMC's Privacy Policy at <https://www.cmc.ca/privacy-policy/>.

By accepting a Award, winner agrees to CMC's use of his/her name, city/province of residence, picture, biographical information, statements, voice and likeness in any advertising and publicity CMC and its respective successors, assigns and licensees may conduct relating to the Competition in any media or format, whether now known or hereafter developed, including but not limited to the World Wide Web, at any time or times in perpetuity, without further compensation or notice, and hereby releases the Competition Entities from any liability with respect thereto. Winner may be required to sign a document to this effect.

#### **11. General Conditions**

All entries become the property of CMC and will not be returned and no correspondence will be made with or entered into except with selected entrant(s). Winning a Award is contingent on fulfilling all the requirements set forth herein. Mass entries, automated entries, entries submitted by third parties, and any entries or claims that are late, incomplete, fraudulent, illegible, unidentified or delayed will be void. All entries and claims are subject to verification. Proof of entry submission does not constitute proof of receipt. Entrants agree to abide by these Official Rules. Decisions of CMC and/or

the Selection Committee will be final and binding on all matters pertaining to this Competition. Competition is subject to all applicable federal, provincial and municipal laws. Void where prohibited. CMC reserves the right to correct any typographical, printing, computer Competition or operator errors. CMC's failure to enforce any term of these Official Rules shall not constitute a waiver of that provision. The invalidity or unenforceability of any provision of these Official Rules shall not affect the validity or enforceability of any other provision. If any provision of the Official Rules is determined to be invalid or otherwise unenforceable, then the Official Rules shall be construed in accordance with their terms as if the invalid or unenforceable provision was not contained therein. Should a winner make any false statement(s) in any document referenced above, the winner may be required to promptly return to CMC his/her Award, or the cash value thereof. **WARNING: ANY ATTEMPT BY AN ENTRANT OR ANY OTHER INDIVIDUAL TO DELIBERATELY DAMAGE ANY WEBSITE ASSOCIATED WITH THIS COMPETITION OR UNDERMINE THE LEGITIMATE OPERATION OF THE COMPETITION IS A VIOLATION OF CRIMINAL AND CIVIL LAWS, AND CMC RESERVES THE RIGHT TO PROSECUTE AND SEEK DAMAGES TO THE FULLEST EXTENT PERMITTED BY LAW.**