**Working Group on Grand Challenges**

2023 Call for Grand Challenge Proposals

The AAPM Working Group on Grand Challenges (WGGC) is charged with promoting the conduct of Grand Challenges designed to assess or improve the use of medical imaging in diagnostic and/or therapeutic applications. The WGGC is now accepting proposals from groups that wish to host a Challenge in advance of the 2024 Annual Meeting. The WGGC will identify up to two proposals that merit sponsorship (some financial support is available, up to $4000 upon approval) and assist the Organizers in moving forward with the Challenges. The timeline for a proposed Challenge should allow for the conduct and conclusion of the Challenge in time for presentation at the Summer 2024 AAPM Annual Meeting.

Please fill out the below Challenge proposal form and e-mail proposals (or any questions) to **Emily Townley (emily@aapm.org) by 5:00 PM EDT on Wednesday, July 19, 2023.**

Awards – please note, one member from the Organizers, as well as one member each from the top-ranked/winning Challenge participant finishers, will be awarded complimentary AAPM Annual Meeting registration to attend in person.

Proposals should contain the following elements:

Page 1:

a) title of Challenge (including proposed nickname)

b) name, institution, and contact information of each member of the organizing group

c) proposed timeline (e.g., public announcement date, dataset release date(s), results submission date)

Pages 2-3:

d) statement of the unmet need that will be served by the Challenge

e) assistance (logistical and/or financial) sought from WGGC

f) background on the issue that the Challenge is meant to address (including literature review)

g) source and numbers of cases for training/testing

h) proposed Challenge hosting platform and proposed data hosting platform

i) Challenge methodology and logistics, including parameters to be held fixed or to be “matched” across cases, reference standard, performance assessment metric(s), publication plan, plan for data persistence, and optional “prize” for winning group(s) [note that some of these challenge aspects might not be known to the organizers at the time of proposal submission, and other aspects might require input from the WGGC; please indicate which issues are unknown or require further consideration]

**AAPM Working Group on Grand Challenges**

2023 Call for Grand Challenge Proposal form

|  |
| --- |
| **Challenge Title:**  |
| **Challenge Nickname:**  |

**Organizers\*:**

|  |  |
| --- | --- |
| Name: | Name:  |
| Institution: | Institution:  |
| E-mail:  | E-mail:  |
| Name:  | Name:  |
| Institution:  | Institution:  |
| E-mail:  | E-mail:  |
| Name:  | Name:  |
| Institution:  | Institution:  |
| E-mail:  | E-mail:  |

\*All organizers must read and agree to comply with the WGGC Organizer Conflict Policy. There can be no exceptions to this policy.

**Proposed timeline:**

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| --- |
| Public announcement date:  |
| Dataset release dates (training set / test set):  |
| Results submission date:  |

|  |
| --- |
| Statement of unmet need to be served by the Challenge:  |

|  |
| --- |
| Assistance (logistical and/or financial) sought from Working Group:  |

|  |
| --- |
| Background on the issue that the Challenge is meant to address (include literature review):  |

|  |
| --- |
| Describe the source and numbers of cases for training/testing:  |

|  |
| --- |
| State the proposed Challenge hosting platform and data hosting platform:  |
| Describe the Challenge methodology and logistics, including parameters to be held fixed or to be “matched” across cases, reference standard, performance assessment metric(s), publication plan, plan for data persistence, and optional “prize” for winning group(s); indicate which of these issues are unknown or require further consideration (do not exceed 1 page):  |