2021-07-08 Meeting notes

Date

08 Jul 2021

Attendees

Name	Attended
Jayashree Kalpathy-Cramer	
Ulli Wagner	Yes
Carolyn Klinger	Yes
Benjamin Bearce	Yes

Currently supported challenges

Name of Challenge	Organization / Meeting	Medici instance used	Release Training data	Release Validation data	Release Test data	Number of Participants	Closing Date	Will the challenge remain open?	Comments
SPIE-AAPM-NCI DAIR Digital Breast Tomosynthesis Lesion Detection Challenge (DBTex)		http://spie-aapm-nci-dair.westus2.cloudapp.azure.com/competitions/4 Phase 2 https://spie-aapm-nci-dair.westus2.cloudapp.azure.com/competitions/6	14 Dec 2020	1/4/2021	1/15/2021	132 registrants 9 submissions	1/25/2021		Challenge completed. The validation phase remains open.
Deep-learning for inverse problems: sparse-view X-ray Computed Tomography image reconstruction	Emil Sidky (UChicago)	Here's a link for the Challenge description /rules/timeline: https://www.dropbox.com/s/ciqqbal4xlxcn8x/DL-sparse-view-CT-challenge.docx?dl=0 Challenge Location: http://dl-sparse-view-ct-challenge.eastus.cloudapp.azure.com/ Related to AAPM Annual meeting in July	3/17/2021	March 31, 2021	May 17, 2021	123 registrants	5/31/2021		2021/04/01 In validation phase Ben & Emil are testing Data are on an FTP server. Ben set up an Azure container to download the data for two participants.

Tasks / Deliverables

Task	Due Date	Deliverable	Status	
Support of at least new two challenges • MICCAI 2020 • SPIE-AAPM-NCI DAIR • DL Sparse View CT Challenge	8/30/2021		• DL Sparse View CT Challenge is underway • https://www.medici-challenges.org/	

Reopen three previously executed challenges • process the results of new submissions • update the leaderboards • inform participants of their results	8/30/2021		■ Keyvan is going to contact M. M. (Duke) re second breast tomosynthesis challenge ■ BreastPathQ challenge (paper was just published) ■ Contact challenge organizers and/or professional organizations for permission to re-open the challenges ■ need to make decisions on how to best handle the challenges ■ find out if the datasets are still available and can be continued to be shared ■ Wagner, Ulrike (NIH/NCI) [C] schedule meeting to discuss this Ben to investigate how to reopen the challenges e.g. by adding a new phase Discuss with Jayashree which challenges to reopen, reach out to MICCAI organization group to ask if they would be ok to reopen. Verify that users can create accounts Are the images still available? Start with one challenge.	
Maintain and update the website	8/30/2021			
• Capturing and providing metrics on the use of the MedICI website	8/30/2021		Investigate Google analytics plug-in - DONE (2021/04/01)	
• Capturing and providing metrics on the challenges	8/30/2021			
Investigate the use of MedICI for federated learning challenges	01 May 2021	Report		
Investigate the integration of MedICI with Kheops	01 Feb 2021	Report	Presentation: NCI Imaging Informatics Webinar The recordings are towards the bottom of the page. URL: https://kheops.online/ Draft: https://docs.google.com/document/d/1c20ny4UNWw4BTXhdFPmc3o0YG00toOndbklXhc40Rqc/edit The report was finalized on 08 Jul 2021	
Support the deployment of MedICI in NCI cloud environments	8/30/2021		App scan found vulnerabilities, Ben fixed them, app needs to be tested with test cases that are provided by Codalab, Ben needs to familiarize himself with the test suite. Codalab needs to be app scanned again. Codalab can connect to various storage places: Azure, AWS, GCP 2021/04/15 - NCI is hardening security which makes deployment much harder. NCI VMs are not allowed to talk to cloud environments. Kevin is investigating workarounds. The goal is to run an app scan. Keyvan suggested trying a Codalab deployment on Google cloud outside of the NCI network. Keyvan will investigate.	

Discussion items

Time	Item	Who	Notes
	Notes		
	Action items		Review the Medici poster Register for meeting after the contracting issues have been resolved Approval of the Kheops report
	Upcoming challenges		■ COVID challenge (Randy Gollub, Jayashree Kalpathy-Cramer)

	Information sharing		- UAMS team will reach out to Jayashree regarding a cost proposal - Need financial information to plan for AAPM registration - Invoices for cloud cost are being worked on at FNLCR
	Monthly status reports		add Monday NCI cloud email to the monthly status report
	Contract / invoice status / SOW		September to November 2020 invoice has been received Send invoices!
	PIV card / GFE laptop / VPN		VPN access
	Paper		The draft will be submitted by September 15, 2020. - Not received
	Videos		Hold the work on the video for now
	Strategy meeting		- review paper - open challenges back up (contract / funding) - website

Action items