

# 2021-04-29 Meeting notes

## Date

29 Apr 2021

## Attendees

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

## 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)		<a href="http://spie-aapm-nci-dair.westus2.cloudapp.azure.com/competitions/4">http://spie-aapm-nci-dair.westus2.cloudapp.azure.com/competitions/4</a>	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:  <a href="https://www.dropbox.com/s/ciqqba4xlxcn8x/DL-sparse-view-CT-challenge.docx?dl=0">https://www.dropbox.com/s/ciqqba4xlxcn8x/DL-sparse-view-CT-challenge.docx?dl=0</a>  Challenge Location: <a href="http://dl-sparse-view-ct-challenge.eastus.cloudapp.azure.com/">http://dl-sparse-view-ct-challenge.eastus.cloudapp.azure.com/</a>  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 <ul style="list-style-type: none"><li>MICCAI 2020</li><li>SPIE-AAPM-NCI DAIR</li><li>DL Sparse View CT Challenge</li></ul>	8/30 /2021		<ul style="list-style-type: none"><li>DL Sparse View CT Challenge is underway</li><li><a href="https://www.medici-challenges.org/">https://www.medici-challenges.org/</a></li></ul>	

Reopen three previously executed challenges <ul style="list-style-type: none"> <li>process the results of new submissions</li> <li>update the leaderboards</li> <li>inform participants of their results</li> </ul>	8/30 /2021		<ul style="list-style-type: none"> <li>Keyvan is going to contact M. M. (Duke) re second breast tomosynthesis challenge</li> <li>BreastPathQ challenge challenge (paper was just published)</li> <li>Contact challenge organizers and/or professional organizations for permission to re-open the challenges</li> <li>need to make decisions on how to best handle the challenges</li> <li>find out if the datasets are still available and can be continued to be shared</li> <li><a href="#">Wagner, Ulrike (NIH/NCI) [C]</a> schedule meeting to discuss this</li> </ul> <p>Ben to investigate how to reopen the challenges e.g. by adding a new phase</p> <p>Discuss with Jayashree which challenges to reopen, reach out to MICCAI organization group to ask if they would be ok to reopen.</p> <p>Verify that users can create accounts</p> <p>Are the images still available?</p> <p>Start with one challenge.</p>	
Maintain and update the website	8/30 /2021			
<ul style="list-style-type: none"> <li>Capturing and providing metrics on the use of the MedICI website</li> </ul>	8/30 /2021		Investigate Google analytics plug-in - DONE (2021/04/01)	
<ul style="list-style-type: none"> <li>Capturing and providing metrics on the challenges</li> </ul>	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	<p>Presentation: <a href="#">NCI Imaging Informatics Webinar</a></p> <p>The recordings are towards the bottom of the page.</p> <p>URL: <a href="https://kheops.online/">https://kheops.online/</a></p> <p>Draft: <a href="https://docs.google.com/document/d/1c20ny4UNWw4BTXhdFPmc3o0YG00toOndbklXhc40Rqc/edit">https://docs.google.com/document/d/1c20ny4UNWw4BTXhdFPmc3o0YG00toOndbklXhc40Rqc/edit</a></p>	
Support the deployment of MedICI in NCI cloud environments	8/30 /2021		<p>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.</p> <p>Codalab can connect to various storage places: Azure, AWS, GCP</p> <p>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.</p> <p>Keyvan suggested trying a Codalab deployment on Google cloud outside of the NCI network. Keyvan will investigate.</p>	

## Discussion items

Time	Item	Who	Notes
	Notes		AAPM part of MIDRC is planning to use Medici for challenges
	Action Items		
	Upcoming challenges		<p>BMMR2: Breast Multiparametric MRI for prediction of NAC Response (Organizer David Newitt, UCSF)</p> <ul style="list-style-type: none"> <li>Information from TCIA team: as of 08 Oct 2020 UCSF had not sent the majority of the data to TCIA for curation. Curation will take a few weeks</li> <li>What does this mean for the timeline of this challenge?</li> <li>Last update from David Newitt received on 10/06/2020</li> <li>01 Dec 2020 - problems with data transfer to TCIA, data transfer now completed, TCIA is curating, David Newitt has been given access to the Medici instance</li> </ul> <ul style="list-style-type: none"> <li>COVID challenge (Randy Gollub, Jayashree Kalpathy-Cramer)</li> </ul>

	Monthly status reports		add Monday NCI cloud email to the monthly status report
	Contract / invoice status / SOW		July 2020 invoice received, can now close out the contract year ending 8/30/2020. September to November 2020 invoice has been received
	PIV card / GFE laptop / VPN		VPN access
	Paper		The draft will be submitted by September 15, 2020. - Not received
	Videos		<ul style="list-style-type: none"> <li>▪ Hold the work on the video for now</li> </ul>
	Strategy meeting		<ul style="list-style-type: none"> <li>▪ review paper</li> <li>▪ open challenges back up (contract / funding)</li> <li>▪ website</li> </ul>

## Action items