## QIBA Volumetric CT Group 3A Update

Thursday, October 6, 2011; 11 AM CDT Draft Call Summary

In attendance RSNA

\*\*Maria Athelogou, PhD (Chair)\* Alden Dima, MS Grace Kim, PhD Julie Lisiecki

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Hubert Beaumont, PhD Dave Gustafson, PhD Nicholas Petrick, PhD

Andrew Buckler, MS Grace Kim, PhD Ying Tang, PhD

Dirk Colditz, PhD

#### I. Update on study design documents (NIST)

- Due to issues with the "Freedom of Information Act," RSNA will serve as the "Registrar" or point of contact.
- A code will be assigned to each participant who will be responsible for using the code to submit data, taking care not to use any identifiers
- RSNA staff will remove any tags or identifiers from the email thread and will send the anonymized data back to NIST
- There is some concern with NIST's legal department regarding the use of the logo
  - Mr. Dima will follow up with the NIST legal team to file the appropriate "memorandum of understanding"
  - He anticipates securing the use of the logo on the challenge invitation will not delay the project.

# II. Challenge Project

- Mr. Dima and Dr. Saiprasad are working on issues with 1A data, seed points, and bounty boxes offline
  - o They will consult with Dr. Gavrielides at the FDA regarding true anthropomorphic features
- RSNA has established a specific email for the challenge. It is: QIBAChallenge@rsna.org.
- Dr. Kim will provide statistical analysis for the project, which is funded via her subaward from the NIBIB contract.

### Checklist for items to request from participants in the Challenge provided by Dr. Athelogou:

Each submission must have an algorithm description: Abstract minimum of 5 sentences; maximum of 10 sentences.

- 1. Is the algorithm automatic or Semi-automatic? If user editing is needed, how much is needed and in what way?
  - This has to include workflow and interaction with the user.
- 2. Limitations of the algorithm (optional), e.g.:
  - Is the algorithm specifically designed to segment only certain types of scans?
  - Is the algorithm specifically designed to segment only certain types of lung nodules?
  - Is the algorithm optimized to work for scans with thick or thin slices?
  - Are other technical scan parameters expected to influence segmentation performance?
  - Was the algorithm trained with example date from other data sources? Is so, what kind of training data?
  - What is the average runtime of your algorithm, and on which system is this runtime achieved?
- 3. This checklist would be useful to incorporate into a report/ spreadsheet/ dataset. Can use the numbers to stratify.

### III. Challenge Project Team Registration (to be submitted to RSNA):

- Team Name and URL
- Email Address
- Version number and identification of the algorithm (not public information)
- Contact Person(s)
- Affiliation and URL
- Country
- $\square$  "I agree with the rules stated from NIST and QIBA for participation in this challenge."

## Next steps:

- Mr. Dima to follow up with the NIST legal department regarding logo use for the Challenge invitation
- Mr. Dima and Dr. Saiprasad to clarify and finalize the data questions with Dr. Gavrielides prior to the next call.
- Dr. Athelogou to send a sample checklist or methods and results form for consideration for participant consistency

Next regularly scheduled call: Thursday, October 20, 2011 at 11 am CDT.