DICOM Meetings & Educational Conference
Brisbane, Australia

SEPTEMBER 25-28, 2018

SUMMARY REPORT

DICOM STANDARDS COMMITTEE

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DICOM WG-10 – Strategic Planning

- Updated the SWOT (Strength, Weakness, Opportunity, Threats) analysis for DICOM

  - Weaknesses

    1. Lack of marketing/communications – New website, WG-29 to address
    2. Greying leadership/loss of influence – WG-29, reach out to top educators, mentoring program

  - Opportunities

    1. Cloud – referred to WG-23
    2. Security – referred to WG-14 and WG-29, educational papers, outreach

  - Threats

    1. EHR lacks DICOM support – refer to joint DICOM WG-20 & HL7 Imaging Informatics Sub Comm.

- Reviewed liaisons and activities with other organizations – Common Data Elements in Rad, QIBA, LOINC, SNOMED, SIIM, ISO, OpenStand, SKMT, ITU-WHO

- New Opportunities – Sync for Science (S4S), Synthetic Massachusetts

- No national DICOM organizations – one international committee

Artifical Intelligence & Machine Learning

- WG-23 to take point, renamed to reflect its updated mission

- Working with ACR Data Science Institute, particularly for requirements drawn from clinically-oriented use cases

- RSNA, SIIM, IHE, HL7 all pushing agendas, with a need to coordinate

- Much interest in cloud-based analytic services

- Significant interest from users and vendors, including non-traditional vendors (i.e. vendors not normally associated with medical imaging)

DICOM WG-29 – Education, Communication, Outreach

- Looking a potential education conference opportunities in India and/or Thailand

- Increase presence at conferences and meeting –

  - ASFNR – poster on DICOM support of clinical brain mapping workflow

  - RSNA – presentation on using ACME to support TLS-secured DICOM connections

  - HIMSS – Interoperability Showcase, look for future paper presentations (Security, AI)

  - SIIM – Submit abstracts, follow-on to RSNA Security presentation

- Continue leveraging Pathology Connectathons promoting DICOM in WSI

- Continue improving new website, make it have a more international focus

- For next meeting – discuss reorganization of DICOM Part 17

DICOM Standards Committee Meeting

- New Work Items
  - X-ray Angiography Protocol Storage (potential impact on clinical trials)
  - Magnetic Resonance Protocol Storage (potential impact on clinical trials)
  - DICOMweb™ support for retrieve via application/zip
  - Neurophysiology Waveforms
- New neurophysiology working group
- New members – Accuray, LOINC
- Reviewed potential governance changes
- Reviewed WG and Stakeholder reports
- Reviewed website and document updates
- Elections for new User Co-Chair – only one nomination

5

Education Conference

- 18 presentations spread over 2 days

  - 6 presentations from Australia about new initiatives

  - 12 presentations by DSC members, including hands-on demo of DICOMweb™

- Around 90 attendees, majority from Australia and SE Asia

- Topics ranged from DICOM basics to the more esoteric realm of identifiers, personal health records, whole body dermatology imaging, 3D models, real-time video, etc.

- Most presentation slides are available at:
  https://www.dicomstandard.org/2018-brisbane-australia/