DICOM Secretariat/MITA
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MINUTES

MEETING NAME WG-32

MEETING PLACE/DIAL IN Via Zoom

DATE & TIME Thursday 18 May 2023
10:00– 11:00 AM Eastern Daylight Time (EDT)

PRESIDING OFFICERS Jonathan J. Halford, Medical University of South Carolina, User Co-Chair
Andrew Ehrenberg, Nihon Kohden Corporation, Vendor Co-Chair

IFCN SECRETARIAT Kim Zaiss

DICOM SECRETARIAT Carolyn Hull

Present	First Name	Last Name	Organization	Voting Status
	Emmanuel	Cordonnier	b<>com	Voting
	Kevin	O'Donnell	Canon Medical Research USA, Inc.	Voting
	Felix	Rosenow M.D.	DGKN (German Society of Clinical Neurophysiology and Functional Imaging)	Voting
	Jan	Remi	Ludwig-Maximilians-University of Munich	Voting
Present	Ben	Brinkmann	Mayo Clinic	Voting
Present	Jonathan	Halford	Medical University of South Carolina	Voting
	Carolyn	Hull	MITA	Voting
Present	Andrew	Ehrenberg	Nihon Kohden Corporation	Voting
	Alan	Huang	Philips	Voting
	Wim	Corbijn van Willenswaard	Philips	Alt. Voting
	Jeroen	Medema	Philips	Alt. Voting
	David	Clunie	PixelMed Publishing	Voting
Present	Silvia	Winkler	Sigma Software Solutions	Voting
	Ana	Alves	CortexXus Inc.	Observer
	David	Alves	CortexXus Inc.	Observer
	Babak	Razavi	CortexXus Inc.	Observer
	Matt	Stead	Dark Horse Neuro, Inc.	Observer
	Andrea	Bigazzi	EB Neuro	Observer

	Gritsch	Gerhard	AIT Austrian Institute of Technology GmbH	Observer
	Mateo	Pratesi	EB Neuro	Observer
	Ignacio Ramírez	Paulino	Facultad de Ingeniería - Universidad de la República	Observer
	Sandor	Benizcky	Filadelfia	Observer
	Steve	Nichols	GE Healthcare	Observer
	Gardar	Thorvardsson	Kvikna / Stratus EEG	Observer
	Richard	Moberg	Moberg Research, Inc.	Observer
	Desire	Jean		Observer
	Jean	Gotman	Montreal Neurological Institute, McGill University	Observer
	Casey	Stengel	Neuralynx	Observer
	Bill	Antilla	Nihon Kohden Corporation	Observer
	Ryuzo	Mase	Nihon Kohden Corporation	Observer
Present	Koichiro	Matsumoto	Nihon Kohden Corporation	Observer
	Pedro Fernando	Arizpe Gomez	OFFIS e. V.	Observer
	Daniel	Crepeau	Dark Horse Neuro	Observer
	Andrey	Pirozhenko	Persyst	Observer
Present	Shane	Ponzikoff	Persyst	Observer
	Wouter	Potters	Amsterdam UMC, Netherlands	Observer
	Stefan	Rampp	University Klinikum Erlangen	Observer
	Dagmar	Krefting	University Medical Center Göttingen	Observer
	Marco	Rossi	University of Milan, Italy	Observer
	Gloria	Menegaz	University of Verona, Italy	Observer
	Matan	Oppenheim	Zebra Medical Vision	Observer
	Justin	Dauwels	Technische Universiteit Delft	
Present	Kim	Zaiss	EDI-IFCN	Observer
Present	Giuseppe	Campobello	University of Messina	Observer
Present	Jonathan	Pfaff	GUEST	

1 CALL TO ORDER AND REVIEW OF ANTI-TRUST RULES AND DICOM PATENT POLICY

The meeting was called to order at 10:02 AM. Participants were reminded that the Guidelines for Conducting NEMA Meetings and Patent Disclosure Policy are in effect and they may be found here: https://www.dicomstandard.org/patent.

2 WELCOME/ATTENDANCE/INTRODUCTION

Attendance was taken.

3 REVIEW AND APPROVE AGENDA

The agenda was reviewed, motion to approve by JH and seconded by SP.

4 REVIEW MINUTES

The minutes of the 20 April 2023 meeting were reviewed, motion to approved by JH and seconded by SP.

5 OLD BUSINESS

- Silvia Winkler reviewed Supplement 236
    - We discussed supplement 236 (annotations, presentation state, structured display).
    - We discussed the new structured report document for encoding annotations
    - It was decided that there should be optional encoding of authorship of annotations.
    - We discussed encoding montages. It was decided that each montage should be encoded in entirety at every time point when there is a change of any of the parameters encoded by montages (montage, filter, gain, etc.).
- Giuseppe Campobello presented results of MPEG-ALS (lossless) and MPEG-AAC (lossy) encoding of the freely available EMG dataset freely available from Izmir Katip Celebi University. Discussion followed about several points:
    - There was more distortion of filtered waveforms than there was for unfiltered waveforms.
    - For unfiltered waveforms, AAC could provide up to around compression ratio of 6-7 with only 3-4% distortion.
    - AAC compression with multichannel did not provide benefit over single channel compression.
    - It was decided that a study needed to be performed to get clinician input on what is a clinically significant level of distortion for ECG, EMG, and EEG waveforms (no distortion versus 3-4% distortion versus 10-15% distortion versus >30% distortion).

6 NEW BUSINESS

- Request for Giuseppe to share his presentation with the group.

7 DATE AND TIME OF NEXT MEETINGS

Thursday 15 June 2023	10:00- 11:00 am US ET
Thursday 20 July 2023	10:00- 11:00 am US ET
Thursday 17, August 2023	10:00- 11:00 am US ET

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