**INTERNATIONAL ORGANISATION FOR STANDARDISATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 11**

**CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC 1/SC 29/WG 11 N17697**

**Ljubljana, SI – July 2018**

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| **Source:** | **Leonardo Chiariglione**  |
| **Title:** | **Ad hoc groups established at MPEG 123** |

**Ad hoc groups established at MPEG 123**

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| **Name** | **AHG on Genomic Information Representation** |
| **Mandates** | 1. To disseminate the information on the activities jointly carried out by ISO/IEC JTC 1/SC 29/WG 11 and ISO TC 276/WG 5 to other ISO TC and other organizations.
2. To finalize the organization of the joint MPEG-GA4GH workshop at next GA4GH plenary meeting in Basel and coordinate MPEG contributions.
3. To discuss and coordinate a collaboration with GATK development team to support MPEG-G as native format.
4. To discuss and coordinate MPEG contributions to relevant bioinformatic conferences and events.
5. To contribute to the editing and to the revision of the DIS of Part-1, Part-2, Part-3 and for the CD of Part-4 and Part-5.
6. To finalize the collection and definition of test item descriptions and binary streams for Conformance testing.
7. To identify work items for MPEG-G Version 2.
8. To finalize the organization of a WS on MPEG-G on the Saturday after the 124 MPEG meeting in Shenzhen.
9. To stimulate the collection of new content in line with new and emerging sequencing technologies.
 |
| **Chairmen** | M. Golebiewsky (HITS), J. Delgado (UPC), M. Mattavelli (EPFL) |
| **Duration** | 124th MPEG meeting |
| **Reflector(s)** | genome\_compression@listes.epfl.ch |
| **Subscribe** | To subscribe, send email to genome\_compression-subscribe@listes.epfl.ch |
|  |  |  |  |
| **Meeting** | Yes | Room Size | 20 |
| Saturday and Sunday before the 124 MPEG |  |

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| **Name** | **AHG on Compressed Representation of Neural Networks** |
| **Mandates** | 1. Refine use cases and requirements and collect test data for further use cases
2. Continue analyzing the state of the art in NN compression and exchange formats
3. Develop the evaluation framework further, and support CfE proponents in the evaluation process
4. Reach out to AI/ML community
 |
| **Chairmen** | Werner Bailer (werner.bailer@joanneum.at)Sungmoon Chun (smchun@insignal.co.kr) |
| **Duration** | until 124th MPEG Meeting |
| **Reflector(s)** | mpeg-nnr@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nnr |
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| **Meeting** | Sunday prior to 124th meeting (9:00-13:00) | Room Size | 30 |
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| **Name** | **AHG on Compact Descriptors for Video Analysis (CDVA)** |
| **Mandates** | 1. To maintain the data set, the test model CXM 6 and the evaluation software.
2. To improve conformance and reference software.
3. To complete CDVA Core Experiment 8, and analyse the results.
4. To promote CDVA to the industry.
 |
| **Chairmen** | Werner Bailer, Lingyu Duan |
| **Duration** | until 124th MPEG Meeting |
| **Reflector(s)** | cdvs-tnt@listserv.uni-hannover.de |
| **Subscribe** | To subscribe or unsubscribe, send email to listserv@listserv.uni-hannover.de with message subscribe cdvs-tnt |
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| **Meeting** | Sunday prior to MPEG meeting (14.00-17.00) | Room Size | 10 |
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| **Name** | **AhG on MMT** |
| **Mandates** | 1. Develop conformance software
2. Study working drafts and the documents related to MMT under ballot
3. Work on Core Experiments
4. Keep relevant SDOs informed about MMT (ITU-T SG 16, ARIB, 3GPP, ATSC, etc.)
 |
| **Chairmen** | Imed Bouazizi |
| **Duration** | Until MPEG meeting #124 |
| **Reflector(s)** | MMT-TNT@listserv.uni-hannover.de |
| **Subscribe** | MMT-TNT-request@LISTSERV.UNI-HANNOVER.DE |
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| **Meeting** | Sunday before the meeting | Room Size | 20 |
| 09:00-13:00 |  |

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| **Name** | **AHG on Scene Description for MPEG-I** |
| **Mandates** | 1. Select and document set of existing external scene description formats to be used as reference for MPEG-I system design
2. Refine the requirements in N17537 based on the findings in mandate 1
3. Identify relevant MPEG standardization aspects based on the above two findings
 |
| **Chairmen** | Imed BouaziziThomas Stockhammer |
| **Duration** | Until MPEG Meeting #124 |
| **Reflector(s)** | mpeg-i@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i |
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| **Meeting** | Sunday before the meeting (afternoon) | Room Size | 20 |
| 14:00-18:00 |  |

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| **Name** | **AHG on MPEG MORE** |
| **Mandates** | 1. To work on Reference SW, Test Vectors and Conformance for MPEG MORE
2. To investigate the relation between MORE and NBMP, and to consider additions to the MORE specification that help fulfilling NBMP requirements, to be included in AMD1 of MORE
3. To further prepare AMD1 of MORE
 |
| **Chairmen** | - Rob Koenen, rob.koenen@tno.nl- Krishna Chandramouli, krishna.chandramouli@qmul.ac.uk- Oskar van Deventer, oskar.vandeventer@tno.nl |
| **Duration** | Until MPEG 124 |
| **Reflector(s)** | gen-sys@lists.uni-klu.ac.at |
| **Subscribe** | http://lists.uni-klu.ac.at/mailman/listinfo/gen-sys |
|  |  |  |  |
| **Meeting** | bi-weekly conference calls on Wednesdays, 8am GMT. See dial-in data below;Invite also distributed on gen-sys list.https://global.gotomeeting.com/join/396131077You can also dial in using your phone. | Room Size |  |
| 10 September, 09:00 - 12:00, joint AHG meeting with NBMP AHG in Den Haag, The Netherlands | 30 |

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| **Name** | **AHG on MPEG Roadmap** |
| **Mandates** | 1. To review and improve the MPEG Standardisation Roadmap (presentation and document)
2. To discuss and prepare promotional activities, including at IBC and SMPTE Fall
 |
| **Chairmen** | Rob Koenen, rob.koenen@tno.nlWalt Husak, WJH@dolby.comEuee Jang, esjang@hanyang.ac.kr |
| **Duration** | Until MPEG 124 |
| **Reflector(s)** | mpegvision@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpegvision |
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| **Meeting** | None | Room Size |  |
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| **Name** | **AHG on MPEG-I Architecture** |
| **Mandates** | 1. To refine and verify the architecture(s) for Immersive Services (N17510)
2. To study the “Thoughts On Adaptive delivery and access to Immersive Media” (N17875), and identify next steps and draft requirements
3. To integrate audio interactivity, delivery and rendering into the architectures in N17888
4. To further develop the requirements for MPEG-I phase 2, in particular Audio requirements (N17743)
5. To refine the integrated project plan for MPEG-I (N17754)
6. To update the “Overview of Immersive Media Standards” (N17751)
 |
| **Chairmen** | Thomas Stockhammer (tsto@qti.qualcomm.com)Mary-Luc Champel (mary-luc.champel@technicolor.com)Jaeyeon Song (jy\_song@samsung.com)Schuyler Quackenbush (srq@audioresearchlabs.com)Rob Koenen (rob.koenen@tno.nl) |
| **Duration** | Until MPEG 124 |
| **Reflector(s)** | mpeg-i@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i |
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| **Meeting** | Sunday prior to MPEG 124 (split with Scene Description) | Room Size | 60 |
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| **Name** | **AHG on MPEG-I Visual Technologies** |
| **Mandates** | 1. Call for test materials for 3DoF+ and 6DoF
2. Define and verify common test conditions of 3DoF+ and Windowed 6DoF
3. Refine the draft call for proposal of 3DoF+ Visual
4. Develop software platform for 3DoF+
5. Study candidates of reference software and configurations and generate anchors for 6DoF
6. Carry out exploration experiments on Windowed 6DoF and Omnidirectional 6DoF
7. Carry out exploration experiments on compression of dense representation of light field video
 |
| **Chairmen** | Lu Yu (chair), Gauthier Lafruit, Joel Jung, Bart Kroon, Jill Boyce (co-chairs) |
| **Duration** | Until 124th meeting |
| **Reflector(s)** | mpeg-i-visual@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i-visual |
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| **Meeting** | Saturday afternoon and Sunday | Room Size | 40 |
| Conference call:Aug. 7 on Draft CfP of 3DoF+Aug. 14 on CTC |  |

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| **Name** | **AHG on MPEG-DASH** |
| **Mandates** | 1. Solicit input on proposed editorial changes to ISO/IEC FDIS 23009-1 3rd edition (N17813), ISO/IEC 23009-1:2014 PDAM 5 (N17811), and ISO/IEC 23009-1:2014 DCOR 3 (N17860).
2. Study technologies under consideration (TuC; N17812) and defects under investigation (DuI; N17859).
3. Solicit inputs for ISO/IEC 23009-7 WD (N17866).
4. Continue to work on conformance and reference software.
 |
| **Chairmen** | Christian TimmererAli C. BegenIraj Sodagar |
| **Duration** | Until the 124th MPEG meeting |
| **Reflector(s)** | dash@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/dash |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Common Media AF** |
| **Mandates** | 1. Study DCOR2 and TuC and solicit further input and feedback on them.
2. Study the Exploration document and provide feedback
3. Solicit further contributions on CMAF conformance and test vectors
 |
| **Chairmen** | Krasimir Kolarov; John Simmons; Cyril Concolato |
| **Duration** | until 124th meeting |
| **Reflector(s)** | mpeg-cmaf@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-cmaf |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Application Formats** |
| **Mandates** | Multi-Image Application Format1. Study and improve Study of DIS2. Continue communication with WG1 on HEIF and JPEG-XR in particularVisual Identity Management Application Format1. Study DIS and solicit contributions to improve it.2. Contribute to the development of content sensitive encryption specification |
| **Chairmen** | Krasimir Kolarov, Youngkwon Lim |
| **Duration** | until 124th meeting |
| **Reflector(s)** | mpeg-maf-dev@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-maf-dev |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Omnidirectional MediA Format (OMAF)** |
| **Mandates** | 1. Study the WD 2 of OMAF 2nd edition and solicit technical contributions for improvements per MPEG-I phase 1b requirements
2. Study the output documents on Parts 6 and 7 of MPEG-I and solicit contributions to improve them
3. Study the profile under consideration in N17868 and solicit contributions
4. Start to investigate OMAF support for 6DOF
5. Develop plans on OMAFv1 reference software and conformance and solicit contributions
6. Study the test framework for OMAF and solicit contributions
7. 7. Collaborate with relevant SDOs, e.g. VRIF
 |
| **Chairmen** | Ye-Kui Wang, Sachin Deshpande, Rob Koenen, and Youngkwon Lim |
| **Duration** | Until the 124th MPEG meeting |
| **Reflector(s)** | mpeg-maf-dev@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/mpeg-maf-dev |
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| **Meeting** | Yes | Room Size | 50 |
| Saturday Oct. 6, 2018, 9:00-20:00. | OMAF document submission deadline for this AHG meeting and MPEG#124: Oct. 6 2018 OMAF AHG meeting and MPEG#124: 23:59 CEST, Friday Sept. 28, 2018. |

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| **Name** | **AHG on MPEG File Formats** |
| **Mandates** | 1. Support groups using the file formats (including audio, DASH, CMAF, OMAF, MORE, MIAF et al.)
2. Study the Technologies under Consideration and Working Draft documents and propose improvements. Study the defect reports and propose corrigendum text.
3. Maintain and update the conformance streams, reference software, white papers and one-pagers, and mp4 registration authority, as needed.
4. Study the space efficiency of movie fragments and propose compactness improvements, including building a collection of files using sample groups, dependency flags etc. Consider whether RLE coding of sample to group patterns is beneficial.
5. Study the composition of sub-pictures and the association of metadata with the composition.
6. Study the signalling of SEI messages, required/present and specifically giving clarity about general SEIs such as user-data SEIs and propose mechanisms.
7. Study the support for the carriage of uncompressed audio and video.
8. Check the specifications for unregistered MIME types and parameters and start registering them. Check the specifications and cross-reference to the Registration Authority (IANA) and update registrations as needed.
 |
| **Chairmen** | David Singer (Apple) and Per Fröjdh (Ericsson) |
| **Duration** | Until next meeting |
| **Reflector(s)** | mp4-sys@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/mp4-sys |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on MPEG-I Audio and Audio Maintenance** |
| **Mandates** | 1. Review MPEG-I Audio Architecture and Requirements
2. Study operating points/use cases that may be tested in an MPEG-I Audio CfP
3. Execute Workplan on MPEG-I Audio
4. Execute Workplan for USAC Conformance
5. Maintain Audio-related conformance data and reference software
 |
| **Chairmen** | Schuyler Quackenbush (ARL) srq at audioresearchlabs . com |
| **Duration** | Until 124th MPEG Meeting |
| **Reflector(s)** | mpeg-audio-call@audioresearchlabs.com |
| **Subscribe** | * To subscribe or unsubscribe to the list, send email to the AhG Chair
* To post on the mailing list, send email to mpeg-audio-call@ audioresearchlabs.com

Note that posting is blocked for non-members |
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| **Meeting** | Web meeting Sep 21 1000-1200 Eastern on MPEG-I Workplan topicsF2F meeting 1300-1800 on Sunday prior to 124th MPEG meeting at MPEG meeting venue on topic of MPEG-I Audio Architecture | Room Size | 35 |
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| **Name** | **AHG on System technologies for Point Cloud Coding** |
| **Mandates** | 1. Study ideas and open issues in N17675 from the 122nd MPEG meeting
2. Study the needs and benefits of serialized bitstream structure for PCC
3. Enable separate output of the components of a compressed point cloud
4. Identify and document static and dynamic metadata and define appropriate signaling of these
5. Work on definitions on profiles and conformance for compressed point clouds
 |
| **Chairmen** | Youngkwon Lim, Sebastian Schwarz |
| **Duration** | Until MPEG meeting #124 |
| **Reflector(s)** | mpeg-3dgc@gti.ssr.upm.es and mp4-sys@lists.aau.at (messages should be sent to both reflectors) |
| **Subscribe** |  |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Network Based Media Processing (NBMP)** |
| **Mandates** | 1. Study the Working Draft of NBMP, in particular the architecture, and solicit technical contributions for improvements on fulfilling NBMP requirements and other MPEG-I requirements relevant to NBMP.
2. Conduct Core Experiments as defined in N17874.
3. Study the relationship with existing MPEG standards (e.g., MORE on temporal synchronization) and solicit contributions
4. Collaborate with relevant SDOs, e.g., 3GPP SA4.
 |
| **Chairmen** | Kyungmo Park (SK Telecom)Rufael Mekuria (Unified Streaming Platform) |
| **Duration** | Until MPEG 124 |
| **Reflector(s)** | mpeg-nbmp@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nbmp |
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| **Meeting** | - F2F joint AhG (NBMP and MORE): Sep. 10, 0900 to 1200 (TNO, Hague)- F2F AhG meeting: Sep. 10, 1300 to Sep. 12, 1700 (TNO, Hague) | Room Size | 30 |
| Saturday before the MPEG 124th meeting, 0900 to 1800 |  |

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| **Name** | **AHG on Font Format** |
| **Mandates** | 1. To evaluate current implementations of the color font solutions, identify weaknesses (if any) and explore ways to improve interoperability of existing implementations
2. To evaluate the feature set required for support of SVG glyphs, and propose a way forward to reduce implementation complexity and improve adoption of the color fonts technology
 |
| **Chairmen** | Vladimir Levantovsky (Monotype) |
| **Duration** | Until the 124th WG11 meeting |
| **Reflector(s)** | mpeg - OTspec @ yahoogroups . com [remove spaces] |
| **Subscribe** | http:// groups . yahoo.com / group / mpeg-OTspec / join [remove spaces] |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on MPEG long term work plan** |
| **Mandates** | 1. Oversee the implementation of “Initial identification of non-media data compression areas” (N17893)
2. Investigate identified non-media areas benefitting from compression
 |
| **Chairmen** | Leonardo Chiariglione |
| **Duration** | Until 124 MPEG meeting |
| **Reflector(s)** | mpeg-workplan@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-workplan |
|  |  |  |  |
| **Meeting** | Sunday before 124th MPEG 17:00-18:00 | Room Size | 30 |
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| **Name** | **AhG on Low Complexity Enhancement Video Codec** |
| **Mandates** | 1. Review and improve the draft CfP for a Low Complexity enhancement video codec
	1. Review and propose test material and operating points
	2. Review and define coding conditions for the anchors
	3. Review and define objective metrics
2. Generate and review proposed test anchors
3. Review requirements and use cases
4. Perform test runs to determine suitability of testing material and process
 |
| **Chairmen** | Simone Ferrara, Yan Ye |
| **Duration** | Until next meeting (MPEG 124) |
| **Reflector(s)** | vcexp@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/vcexp |
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| **Meeting** | YesAlso, conference calls will be set up as need - details to be agreed and communicated via reflector | Room Size | 15 |
| Sunday before MPEG 124 |  |

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| **Name** | **AhG on an Enhanced Quality Profile of the AVC Standard** |
| **Mandates** | 1. Review and improve N17749, the draft Requirements for an Enhanced Quality Profile of the AVC standard
2. Review and improve N17802, the draft Evaluation Guidelines for an Enhanced Quality Profile of the AVC standard
 |
| **Chairmen** | Ken McCann |
| **Duration** | Until next MPEG meeting |
| **Reflector(s)** | mpeg-eqavc@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-eqavc |
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| **Meeting** | Sunday before 124th MPEG | Room Size | 50 |
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| **Name** | **AhG on Point Cloud Coding** |
| **Mandates** | 1. Produce third versions of Working Drafts of V-PCC and G-PCC
2. Update the TMs (SW and documentation) during the editing period
3. Update the CTC and provide validated anchor points
4. Conduct the PCC Core Experiments
5. Coordinate scientific and technical dissemination on PCC
6. Recommend strategies to handle conformance
7. Solicit additional data sets for all categories
 |
| **Chairmen** | Ralf Schaefer (Chair), Phil Chou, Khaled Mammou |
| **Duration** | Until 124th MPEG Meeting |
| **Reflector(s)** | mpeg-3dgc AT gti. ssr. upm. es |
| **Subscribe** | To subscribe, send email to https://mx.gti.ssr.upm.es/mailman/listinfo/mpeg-3dgc |
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| **Meeting** | Saturday and Sunday before the MPEG meeting | Room Size | 70 |
|  | 9h00 to 20h00 |

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| **Name** | **AhG on IoMT** |
| **Mandates** | 1. Analyse the CDs and recommend further improvements |
| **Chairmen** | Mihai Mitrea, Sang-Kyun Kim, Sungmoon Chun |
| **Duration** | Until 124th MPEG Meeting |
| **Reflector(s)** | MIoTW@lists.aau.at |
| **Subscribe** | http://lists.uni-klu.ac.at/mailman/options/MIoTW |
|  |  |  |  |
| **Meeting** | Sunday before the MPEG meeting | Room Size | 20 |
| 14h00 to 18h00 |  |