minutes

Sub project / GAP (incl. sub projects): B01

Date and location: Room 06.025, Chair of Multimedia Communications and Signal Processing

Participants: Dat Nguyen, André Kaup, Christian Herglotz

Keeper of the minutes: Dat Nguyen

Date and location for next meeting: not yet decided

|  |
| --- |
| **topic 1 – How is the study going** |
| content/description: |
| 1. Two point cloud compression methods has been proposed, one with mixture of logistic(MoL) modeling, one with softmax.  2. Method using MoL significantly reduce complexity and memory footprint of the network compared to method with softmax. But MoL is not suitable for entropy coding.  3. Method using softmax outperfoms MoL method and the state of the art compression algorithm on dense point cloud and has comparable rate on sparse dataset.  4. Combining both geometry and color attribute compression, we have 8% gain over state of the art. |
| tasks and responsibilities: |
| 1. Train and test on train set and test set having similar of density/sparsity level  2. Which is the best order/representation to encode the color channel: RGB/BGR/GBR/YUV,…  3. |

|  |
| --- |
| **topic 2 – Collaboration with empkins sub-project** |
| content/description: |
| 1. Dataset with color attribute and velocity from A01 is not yet available,  2. The current coding method is fully generalizable to velocity attribute |
|  |
|  |

|  |
| --- |
| **topics for next meeting** |
| 1. Recruiting new students and interns  2. Possibility of publication |

**Notes:**