

Introduction by O. Schreer, P. Kauff, T. Sikora

Section I: Applications of 3D Videocommunication History of Telepresence (*W.A. IJsselsteijn, TU Eindhoven, The Netherlands*).

3D TV broadcasting (*C. Fehn, FhG-HHI, Berlin, Germany*).

3D in Content Creation and Post-Production (*O. Grau, BBC, London, United Kingdom*).

Free Viewpoint Systems (*M. Tanimoto, Nagoya University, Japan*).

Immersive Videoconferencing (*P. Kauff, O. Schreer FhG/HHI, Berlin, Germany*).

Section II: 3D Data Representation and Processing Fundamentals of Multiple View Geometry (*E. Trucco, S. Ivekovic, HWU, United Kingdom, A. Fusiello*).

Stereo Analysis (*N. Atzpadin, FhG-HHI, Berlin, Germany, J. Mulligan, Univ. of Colorado, USA*).

Reconstruction of Volumetric 3D Models (*P. Eisert, FhG HHI, Berlin, Germany*).

View Synthesis and Rendering Methods (*R. Koch, J.-F. Evers-Senne, Christian-Albrechts-University, Kiel, Germany*).

3D Audio Capture and Analysis (*M. Schwab, P. Noll, Technical University Berlin, Germany*).

Coding and Standardization (*A. Smolic, FhG/HHI, Berlin, Germany, Th. Sikora, Technical University Berlin, Germany*).

Section III: 3D Reproduction Human Factors of 3D Displays (*W.A. IJsselsteijn, P.J.H. Seuntjens, L.M.J. Meesters, TU Eindhoven, The Netherlands*).

3D Displays (*S. Pastoor, FhG HHI, Berlin, Germany*).

Mixed Reality Displays (*S. Pastoor, C. Conomis, FhG/HHI, Berlin, Germany*).

Spatialised Audio and 3D Audio Rendering (*Th. Sporer, S. Brix, F. Melchior, FhG/Digital Media Technology (FhG-IDMT), Illmenau, Germany*).

Section IV: 3D Data Sensors Sensor-Based Depth Capturing (*Joao G.M. Goncalves, V. Sequeira, Europ. Comm. - Joint Research Center (JRC), Ispra, Italy*).

Tracking and User Interface for Mixed Reality (*T. Ebrahimi, Y. Abdeljaoued, D. Marimon, EPFL, Lausanne, Switzerland*).