

# IMPLEMENTATION OF SETTING OF THE REAL STEREOSCOPIC SEQUENCES FOR THE SOFTWARE FOR PROCESSING VISUAL EFFECTS

MGR. MARTIN ČIČMANEC SUPERVISED BY MGR. BORIS LACSNÝ, PHD.



CONSTANTINE  
THE PHILOSOPHER  
UNIVERSITY FACULTY  
IN NITRA OF NATURAL SCIENCES

## STEREOCOPY

A TECHNIQUE FOR CREATING THE ILLUSION OF DEPTH IN IMAGES. OUR WORK REALIZES THE SUPPORT IN A FIELD OF VISUAL EFFECTS IN POSTPRODUCTION WITH A FOCUS ON STEREOCOPY. WORK INFORMS ABOUT PROBLEMS OF STEREOCOPY AND VISUAL EFFECTS. STEREOCOPY IS USED IN MANY INDUSTRIES INCLUDING HEALTHCARE, ENGINEERING AND OF COURSE ART. OUR WORK COMBINES KNOWLEDGE FROM VARIOUS FIELDS IN TOOLS FOR CREATING WHOLE RANGE OF STEREO IMAGERY.



## VISUAL EFFECTS

VISUAL EFFECTS ARE USING STEREOCOPY TO CREATE FILMS FOR 3D THEATERS. WE AIM TO CREATE FREE TOOLS FOR CREATING STEREO VIDEOS FOR VIRTUAL REALITY, 3D THEATERS/MONITORS. WE HELP ARTISTS TO FOCUS ON CREATIVITY AND IMAGINATION.



## SOLUTION

THIS WORK GRADUALLY PASS THROUGH THE HISTORY, FUNCTIONS OF EYES AND TECHNICAL ELEMENTS OF STEREOCOPY. WE HAVE CREATED A STEREO SYSTEM FOR VISUAL EFFECTS SOFTWARE. WE IMPLEMENT THE PROPOSED SYSTEM USING REAL CAMERA SETTINGS. AND WE CREATE TOOLS FOR STEREOCOPY COMPOSITION. WE USE THIS TOOL TO CREATE A STEREOCOPY SHOT. WE HAVE TESTED OUR TOOLS IN FILM POSTPRODUCTION COMPANY. OUR WORK OPTIMISE MATH FORMULAS TO CREATE FAST ALGORITHM. WE PROVIDE TOOLS THAT LET USERS TO CREATE, PREVIEW, EXPORT AND EDIT STEREOCOPY DATA. READER GAIN KNOWLEDGE FROM WHOLE PROCES OF CREATING STEREOCOPY SHOT IN REAL EXAMPLE. .

