






POLISH NATIONAL AGENCY
FOR ACADEMIC EXCHANGE



STER
PROGRAMME

<p>name of the unit:</p> <p style="text-align: center;">DATA VISUALIZATION AND AFFECTIVE USER INTERFACE TEAM</p> <p style="text-align: center;">Institute of Information Technology Lodz University of Technology</p>		<p>symbol:</p> <p style="text-align: center;">I-72</p> <p style="text-align: center;">http://www.it.p.lodz.pl</p>
<p>head of the unit:</p> <p style="text-align: center;">Piotr Napieralski</p>	<p>potential promoters:</p>	<p>contact person:</p> <p style="text-align: center;">Piotr Napieralski tel: 42-631-27-96 piotr.napieralski@p.lodz.pl</p>
<p>scope of activities:</p> <ul style="list-style-type: none"> - Stereoscopic visualization and digital image quality, - Affective user interfaces, - Psychology of perception - Computer graphics and animation - Artificial Intelligence in film image analysis 		<p>graphic material</p> 
<p>present activities:</p> <ul style="list-style-type: none"> • Cooperation with S3D laboratory from the L. Schiller National Film School • Development and development of intelligent algorithms for recognition and analysis of changes of pupil size • Development of algorithms for recognition of areas of interest in a film image • Development of algorithms for identification of errors in stereoscopic images 		
<p>Publications:</p> <ul style="list-style-type: none"> • Wojciechowski, A., Napieralski, P., & Lipiński, P. (2021). TEWI 2021 (Technology, Education, Knowledge, Innovation) (A. Wojciechowski, P. Napieralski, & P. Lipiński, eds.). https://doi.org/10.34658/9788366741102 • Zieliński Marcin, Napieralski Piotr, Daszuta Marcin, S. D. (2021). Smart Events in Behavior of Non-player Characters in Computer Games. In P. M. A. S. Maciej Paszynski, Dieter Kranzlmüller, Valeria V. Krzhizhanovskaya, Jack J. Dongarra (Ed.), International Conference on Computational Science ICCS 2021 (pp. 164–177). https://doi.org/10.1007/978-3-030-77977-1_13 • Daszuta, M., Szajerman, D., & Napieralski, P. (2020). New emotional model environment for navigation in a virtual reality. Open Physics, 18(1), 864–870. https://doi.org/10.1515/phys-20200199 • Kornacka, M., Kamila, C.-B., Napieralski, P., & Anna, B.-M. (2020). Rumination, mood, and maladaptive eating behaviors in overweight and healthy populations. Eating and Weight Disorders - Studies on Anorexia, Bulimia and Obesity. https://doi.org/10.1007/s40519-020-00857z • Rogalska, A., Rynkiewicz, F., Daszuta, M., Guzek, K., & Napieralski, P. (2019). Blinking Extraction in Eye gaze System for Stereoscropy Movies. Open Physics, 17(1), 512–518. https://doi.org/10.1515/phys-2019-0053 • Napieralski, P., & Rynkiewicz, F. (2019). Modeling Human Pupil Dilation to Decouple the Pupillary Light Reflex. Open Physics, 17(1), 458–467. https://doi.org/10.1515/phys-2019-0047 • Kowalczyk, M., & Napieralski, P. (2019). A structural quality evaluation model for threedimensional simulations. Open Physics, 17(1). https://doi.org/10.1515/phys-2019-0035 		

The portfolio of research groups was created as part of the Programme "STER" – Internationalisation of doctoral schools" as part of the realization of the project "Curriculum for advanced doctoral education & taining – CADET Academy of Lodz University of Technology".



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Future activities:

establishing cooperation with other academic centers and business entities

Keywords: stereoscopy, film, animation, affective computing, artificial intelligence, machine learning, 3D

List of internship proposal in this research team:

methods of measurement and evaluation of cinema parameters

List of attachments: