

Grigorios Kalliatakis

CONTACT INFORMATION	Wivenhoe Park, CO4 3SQ University of Essex Colchester, UK	Phone: +44 7482 259194 E-mail: gkallia@essex.ac.uk Google Scholar Profile
RESEARCH INTERESTS	Computer Vision: image classification, image interpretation, scene understanding, visual explanations Machine Learning: deep learning	
EDUCATION	University of Essex , Colchester, UK	10/2015 – Present
	PhD Student in Computer Science	
	<ul style="list-style-type: none">• Thesis Topic: Visual Recognition of Human Rights Violations• Advisors: Klaus McDonald-Maier and Shoaib Ehsan	
	University of Burgundy , Burgundy, France	8/2014 – 6/2015
	M.S., MSc in Computer Vision (Upper Second Class),	
	<ul style="list-style-type: none">• Topic: Towards an Automatic Intelligible Monitoring of Behavioral and Physiological Metrics of User Experience: Head Pose Estimation and Facial Expression Recognition• Advisors: Cédric Demonceaux, Vidakis Nikolaos and Triantafyllidis Georgios	
	Technological Educational Institute of Crete , Greece	9/2013 – 6/2015
	M.S., Master in Informatics and Multimedia (First Class),	
	<ul style="list-style-type: none">• Specialisation: 3D Human Activity Monitoring• Advisor: Vidakis Nikolaos	
	Technological Educational Institute of Crete , Greece	2007 – 2013
	B.S., Engineer of Applied Informatics and Multimedia (First Class),	
	<ul style="list-style-type: none">• Specialisation: Object Recognition.• Advisor: Triantafyllidis Georgios	
RESEARCH EXPERIENCE	Senior Research Officer at The Human Rights, Big Data and Technology (HRBDT) Project	2018 – Present
	<ul style="list-style-type: none">• Developing computer vision algorithms for recognising human rights violations through images	
	Graduate Research Assistant at Natural interaction Learning Games Lab	2012 – Present
	<ul style="list-style-type: none">• Developing algorithms for multimodal sensing and natural user interfaces• Developing web-based visualisations for educational ecosystems	
	Summer Research Intern at iSTLab	2/2015 – 6/2015
	<ul style="list-style-type: none">• Proposed a novel framework for monitoring human activity in serious games using depth data, published in <i>Computers</i>	
	Research Project at Intelligent Systems Lab	5/2012 – 10/2012
	<ul style="list-style-type: none">• Developed algorithms for simultaneous video and sound recording of three fish	

JOURNAL
PUBLICATIONS

1. **Kalliatakis, G.**, Ehsan, S., Fasli, M., Leonardis, A., McDonald-Maier, K. D. (2017). Exploring object-centric and scene-centric CNN features and their complementarity for human rights violations recognition in images. *IEEE Access*, 7, 10045-10056.
2. Stergiou, A., **Kalliatakis, G.**, Chrysoulas, C. (2018). Traffic Sign Recognition based on Synthesised Training Data. *Big Data and Cognitive Computing*, 2(3), 19.
3. **Kalliatakis, G.**, Stergiou, A., Vidakis, N. (2017). Conceiving Human Interaction by Visualising Depth Data of Head Pose Changes and Emotion Recognition via Facial Expressions. *Computers*, 6(3), 25.
4. **Kalliatakis, G.** & Triantafyllidis, G. (2013). Image based Monument Recognition using Graph based Visual Saliency. *ELCVIA*, 12(2), 88-97.

CONFERENCE
PUBLICATIONS

1. **Kalliatakis, G.**, Ehsan, S., Fasli, M., McDonald-Maier, K. D. DisplaceNet: Recognising Displaced People from Images by Exploiting Dominance Level. *In Proceedings of the Computer Vision for Global Challenges Workshop, CVPR 2019*.
2. Stergiou A., Kapidis G, **Kalliatakis G.**, Chrysoulas C., Veltkamp R., Poppe R. Saliency Tubes: Visual Explanations for Spatio-Temporal Convolutions. *To appear in 26th IEEE International Conference on Image Processing (ICIP), 2019*.
3. Dey, S., **Kalliatakis, G.**, Saha, S., Singh, A.K., Ehsan, S. and McDonald-Maier, K., 2018. MAT-CNN-SOPC: Motionless Analysis of Traffic Using Convolutional Neural Networks on System-On-a-Programmable-Chip. *In Proceedings of the 2018 NASA/ESA Conference on Adaptive Hardware and Systems (AHS)*. IEEE.
4. **Kalliatakis, G.**, Ehsan, S., & McDonald-Maier, K. D. (2017). A Paradigm Shift: Detecting Human Rights Violations Through Web Images. *In Proceedings of the Human Rights Practice in the Digital Age Workshop*.
5. **Kalliatakis, G.**, Ehsan, S., Fasli, M., Leonardis, A., Gall, J., & McDonald-Maier, K. D. (2017). Detection of Human Rights Violations in Images: Can Convolutional Neural Networks help?. *In Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2017)*.
6. **Kalliatakis, G.**, Stamatiadis, G., Ehsan, S., Leonardis, A., Gall, J., Sticlaru, A., & McDonald-Maier, K. D. (2017). Evaluating Deep Convolutional Neural Networks for Material Classification. *In Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 5: VISAPP, (VISIGRAPP 2017)*.
7. **Kalliatakis, G.**, Vidakis, N., & Triantafyllidis, G. (2016, September). Web-based visualisation of head pose and facial expressions changes: monitoring human activity using depth data. *In Proceedings of the 8th Computer Science and Electronic Engineering (CEECE), 2016*. IEEE.
8. **Kalliatakis, G.**, Triantafyllidis, G., & Vidakis, N. (2015, June). Head pose 3D data web-based visualization. *In Proceedings of the 20th International Conference on 3D Web Technology*. ACM.
9. Vidakis, N., Vlasopoulos, A., Kounalakis, T., Varchalamas, P., Dimitriou, M., **Kalliatakis, G.**, & Triantafyllidis, G. (2013, July). Multimodal desktop interaction: The face-object-gesture-voice example. *In Proceedings of the 18th International Conference on Digital Signal Processing (DSP), 2013*. IEEE.

10. **Kalliatakis, G.**, Kounalakis, T., Papadourakis, G., & Triantafyllidis, G. (2012). Image-based touristic monument classification using graph based visual saliency and scale-invariant feature transform. *In Proceedings of the 13th IASTED International Conference on Computer Graphics and Imaging.*
- BOOK CHAPTERS
- Chrysoulas, C., **Kalliatakis, G.**, & Stamatiadis, G. (2017). Hadoop and What It Is Good For. *In Machine Learning: Advances in Research and Applications.* Published by Nova Science Publishers
- HONOURS AND AWARDS
- Excellence in Education Award 2017 – 2018
For the development of the Essex CSEE challenge week
 - University of Essex, Computer Science and Electronic Engineering Doctoral scholarship 2015 – 2018
 - Technological Educational Institute of Crete 2013 – 2015
Master scholarship by the State Scholarships Foundation-IKY
- TEACHING EXPERIENCE
- University of Essex 10/2016 – 5/2018
Graduate Lab Assistant for ‘Professional Development’
 - Technological Educational Institute (TEI) of Crete 9/2012 – 1/2013
Teaching Assistant for ‘Digital Image Processing’
- ACADEMIC SERVICE
- Publication Chair**, 9th Computer Science & Electronic Engineering Conference, 2017
Publication Chair, EAI International Conference on Design, Learning & Innovation, 2017
Reviewer, Applied Sciences Journal, 2019
Reviewer, Multimodal Technologies and Interaction (MTI) Journal, 2017
Reviewer, ArtsIT & DLI Journal, 2017
Reviewer, 3DTV Conference, 2017, 2018
Reviewer, 6th EAI International Conference: ArtsIT, Interactivity & Game Creation
- COMPUTER SKILLS
- **Languages/Markup:** Python, Matlab, OpenCV, C#, Java, HTML, CSS, Javascript, jQuery, \LaTeX
 - **Deep Learning Libraries:** Keras, TensorFlow, Caffe, MatConvNet
 - **Operating Systems:** Linux, Windows, Mac OS X
- REFERENCES Available upon request