

Quoc-Tin Phan

CONTACT INFORMATION	Department of Information Engineering and Computer Science University of Trento, Italy Via Sommarive 9 I-38123 Povo (TN) (+39) 3420236513 quoctin.phan@unitn.it
RESEARCH INTERESTS	In computer vision, machines are taught to see what human can see. On the contrary, multimedia contain patterns that human cannot see and machines potentially can. I am passionate on the exploitation of machine learning to detect imperceptible patterns associated with security issues in multimedia data.
EDUCATION	University of Trento , Trento, Italy Ph.D., <i>Multimedia Analysis</i> , <i>Expected</i> : December 2018 <ul style="list-style-type: none">Concentration: <i>Studying the process in which digital images are created, modified, diffused, and exploiting machine learning to uncover digital image provenance.</i>Advisors: Giulia Boato, Ph.D and Francesco G. B. De Natale, Ph.D University of Science, HCMC , Ho Chi Minh city, Vietnam M.S., <i>Computer Science</i> , June 2014 <ul style="list-style-type: none">Concentration: <i>Public key cryptography based on the discrete logarithm problem on a matrix group and its application in searchable encryption</i>Advisor: Thuc D. Nguyen, Ph.D
ACADEMIC & RESEARCH EXPERIENCE	Research Visitting Student Sep. 2018 to Feb. 2019 Visual Information Processing and Protection (VIPP) Department of Information Engineering and Mathematics University of Siena, Italy Supervisor: Mauro Barni, Ph.D Doctoral Research Fellow Oct. 2015 to present Doctoral School in Information and Communication Technology University of Trento, Italy Supervisor: Giulia Boato, Ph.D, and Francesco G. B. De Natale, Ph.D Teaching Assistant Sep. 2017 to Mar. 2018 Multimedia Data Security (codice 145614), University of Trento Collaborator in EUREGIO challenge, hosted by University of Trento, Italy, and University of Innsbruck, Austria. Research Assistant May. 2011 to Oct. 2015 Faculty of Computer Network and Communication University of Information Technology, HCMC Supervisors: Hong-Hai Dam-Quang, Ph.D
PUBLICATIONS	<ol style="list-style-type: none">Q.-T. Phan, G. Boato, R. Caldelli, I. Amerini, “Tracking Multiple Image Sharing on Social Networks”, 2019. To appear in <i>Int. Conference on Acoustics, Speech, and Signal Processing</i>.Q.-T. Phan, G. Boato, F. G. B. De Natale, “Accurate and Scalable Image Clustering Based On Sparse Representation of Camera Fingerprint”, <i>IEEE Transactions on Information Forensics & Security</i>, 2019. Early access: link.Q.-T. Phan, C. Pasquini, G. Boato, F. G. B. De Natale, “Identifying image provenance: an analysis of mobile instant messaging apps”, <i>Int. Workshop on Multimedia Signal Processing</i>, 2018.

4. F. Lago, **Q.-T. Phan**, G. Boato, “Image Forensics on Online News”, *Int. Workshop on Multimedia Signal Processing*, 2018.
5. **Q.-T. Phan**, D.-T. Dang-Nguyen, G. Boato, F. G. B. De Natale, “Using LDP-TOP In Video Based Spoofing Detection”, *Int. Conference on Image Analysis and Processing*, 2017.
6. **Q.-T. Phan**, G. Boato, F. G. B. De Natale, “Image Clustering by Source Camera via Sparse Representation”, *Int. Workshop on Multimedia Forensics and Security*, 2017.
7. **Q.-T. Phan**, A. Budroni, C. Pasquini and F. G. B. De Natale, “A Hybrid Approach for Multimedia Use Verification”, *MediaEval*, 2016.
8. **Q.-T. Phan**, D. T. Dang-Nguyen and G. Boato and F. G. B. De Natale, “Face spoofing detection using LDP-TOP”, *Int. Conference on Image Processing*, 2016.
9. **Tin Q. Phan**, Van H. Dang and Thuc D. Nguyen, “A Novel Construction for PEKS Scheme Using Matrix Group”, *Ubiquitous Information Technologies and Applications*, 2014.

SUBMITTED
PUBLICATIONS

1. E. Sansone, **Q.-T. Phan**, F. G. B. De Natale, “Coulomb Autoencoders”, 2019.
Submitted to *International Conference on Machine Learning*.

PRESENTATIONS

Conferences and Workshops

- Int. Conference on Image Processing, Arizona, USA Sep 2016
- MediaEval Workshop, Hilversum, Netherlands Oct 2016
- Int. Workshop on Multimedia Forensics and Security, Bucharest, Romania June 2017
- Int. Conference on Image Analysis and Processing, Sicily, Italy Sep 2017
- GTTI Thematic Meeting on Multimedia Signal Processing, Trento, Italy 2018

REFERENCES

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