

## Quoc-Tin Phan

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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	<b>University of Trento</b> , Trento, Italy Ph.D., <i>Multimedia Analysis</i> , <i>Expected</i> : April 2019 <ul style="list-style-type: none"><li>Concentration: <i>Studying the process in which digital images are created, modified, diffused, and exploiting machine learning to uncover digital image provenance.</i></li><li>Advisors: Giulia Boato, Ph.D and Francesco G. B. De Natale, Ph.D</li></ul> <b>University of Science, HCMC</b> , Ho Chi Minh city, Vietnam M.S., <i>Computer Science</i> , June 2014 <ul style="list-style-type: none"><li>Concentration: <i>Public key cryptography based on the discrete logarithm problem on a matrix group and its application in searchable encryption</i></li><li>Advisor: Thuc D. Nguyen, Ph.D</li></ul>
ACADEMIC & RESEARCH EXPERIENCE	<b>Research Visitting Student</b> 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 <b>Doctoral Research Fellow</b> 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 <b>Teaching Assistant</b> Sep. 2017 to Mar. 2018 Multimedia Data Security (codice 145614), University of Trento Collaborator in <b>EUREGIO</b> challenge, hosted by University of Trento, Italy, and University of Innsbruck, Austria. <b>Research Assistant</b> 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"><li><b>Q.-T. Phan</b>, 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>.</li><li><b>Q.-T. Phan</b>, 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 &amp; Security</i>, 2019. Early access: <a href="#">link</a>.</li><li><b>Q.-T. Phan</b>, 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.</li></ol>

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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