

# Emmanouil Papangelis (Manos Papangelis)

York University, Lassonde School of Engineering  
Electrical Engineering & Computer Science (LAS 3050)  
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## ACADEMIC APPOINTMENTS

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- 2016 - present    **Assistant Professor**, *York University, Toronto, Canada*  
Lassonde School of Engineering  
Electrical Engineering & Computer Science  
■ Data Science: Graph Mining, Data Mining, Databases, Knowledge Discovery
- 2015 - 2016    **Lecturer and Postdoctoral Scholar**, *University of California, Berkeley*  
UC Berkeley School of Information (iSchool)  
■ Data Mining, Graph & Information Network Mining, Databases & Knowledge Discovery
- 2010 - 2015    **Sessional Lecturer/Course Instructor**, *University of Toronto, Canada*  
Department of Computer Science  
■ Databases, Systems, Programming

## EDUCATION

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- 2005 - 2015    **Ph.D.**, *University of Toronto, Canada*  
Department of Computer Science  
■ Supervisor: Nick Koudas  
■ Area: Data Mining, Graph Mining, Knowledge Discovery, Databases  
■ Thesis: "Understanding and Improving Online Social Interactions and Processes: Methods, Algorithms & Applications."
- 2003 - 2005    **M.Sc.**, *University of Crete, Greece*  
Department of Computer Science  
■ Supervisor: Dimitris Plexousakis  
■ Area: Information Systems, Computer Networks and Telecommunications  
■ Thesis: "Crawling the Algorithmic Foundations of Recommendation Technologies."
- 1998 - 2002    **B.Sc.**, *University of Crete, Greece*  
Department of Computer Science  
■ Supervisor: Dimitris Plexousakis  
■ Thesis: "Study and Implementation of User-based Recommendation Algorithms and their Role in the Formation of Online Virtual Communities."

## SCHOLARSHIPS / AWARDS

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- Sep 2010    Elsevier Engineering Applications of AI Top Cited Article 2005-2010 Award
- Nov 2010    Platform Computing Graduate Fellowship in Computer Science
- Sep'05-Sep'10    University of Toronto - Graduate Fellowship
- Jun'10-Aug'10    Yahoo! Research, Barcelona - Internship Fellowship
- May'09-Jul'09    Yahoo! Research, Barcelona - Internship Fellowship
- Sep'04-May'05    European Union - Award for "Innovative Ideas Worth Funding"

Feb'05-Jul'05	FORTH-ICS - Training and Specialization Fellowship
Feb'03-Jan'05	FORTH-ICS - Graduate Fellowship
Sep'02-Feb'03	FORTH-ICS - Training and Specialization Fellowship
1992-1997	Greek Ministry of Education and Religions -Honors Award for Excellence in Education

## PUBLICATIONS

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### Journals

- Tamer El-Diraby, Thomas F. Krijnen, **Manos Papagelis**, “BIM-based Collaborative Design and Socio-technical Analytics of Green Buildings”. *Automation in Construction*, Vol. 82, Issue 10, 2017
- **Manos Papagelis**, “Refining Social Graph Connectivity via Shortcut Edge Addition”. *ACM TKDD*, Vol. 10, Issue 2, 2015
- **Manos Papagelis**, Gautam Das, Nick Koudas. “Sampling Online Social Networks”. *IEEE TKDE*, Vol. 25, Issue 3, March 2013
- Martin Doerr, **Manos Papagelis**. “A Method for Estimating the Precision of Placename Matching”. *IEEE TKDE*, Vol 19, Issue 8, Aug 2007
- **Manos Papagelis**, Dimitris Plexousakis. “Qualitative Analysis of User-based and Item-based Prediction Algorithms for Recommendation Agents”. *Elsevier EAAI*, Vol 18, Oct 2005. **Elsevier EAAI Top Cited Article 2005-2010 Award**

### Conferences

- **Manos Papagelis**, Thomas F. Krijnen, Mohamed Elshenawy, Theohar Konomi, Roy Fang, Tamer El-Diraby. “Green2.0: Enabling Complex Interactions Between Buildings and People”. *ACM CSCW*, 2016.
- Tamer El-Diraby, Thomas F. Krijnen, **Manos Papagelis**. “Green2.0: Socio-technical Analytics of Green Buildings”. *ICSIC*, 2016.
- **Manos Papagelis**, “Refining Social Graph Connectivity via Shortcut Edge Addition”. *HDMS 2015*
- Alan M. Redmond, **Manos Papagelis**, Tamer El-Diraby, “Employing Exploratory Research Stage to Evaluate Green Building Technologies for Sustainable Systems”. *ICCSTE 2015*.
- **Manos Papagelis**, Francesco Bonchi, Aristides Gionis. “Suggesting Ghost Edges for a Smaller World”. *ACM CIKM 2011*
- **Manos Papagelis**, Vanessa Murdock, Roelof van Zowl. “Individual Behavior and Social Influence in Online Social Systems”. *ACM Hypertext 2011*
- **Manos Papagelis**, Nilesh Bansal, Nick Koudas. “Information Cascades in the Blogosphere: A Look Behind the Curtain”. *ICWSM 2009*
- Athanasios Papagelis, **Manos Papagelis**, Christos Zaroliagis. “Enabling Social Navigation on the Web”. *IEEE/WIC/ACM Web Intelligence 2008*
- Athanasios Papagelis, **Manos Papagelis**, Christos Zaroliagis. “iClone: Towards Online Social Navigation”. *ACM Hypertext 2008*
- **Manos Papagelis**, Dimitris Plexousakis, Panagiotis N. Nikolaou. “CONFIOUS: Managing the Electronic Submission and Reviewing Process of Scientific Conferences”. *WISE 2005*
- **Manos Papagelis**, Dimitris Plexousakis, Themistoklis Kutsuras. “Alleviating the Sparsity Problem of Collaborative Filtering Using Trust Inferences”. *iTrust 2005*
- **Manos Papagelis**, Ioannis Rousidis, Dimitris Plexousakis, Elias Theoharopoulos. “Incremental Collaborative Filtering for Highly-Scalable Recommendation Algorithms”. *IS-MIS 2005*

■ **Manos Papagelis**, Ioannis Rousidis, Dimitris Plexousakis, Elias Theoharopoulos. “Qualitative Analysis of User-based and Item-based Prediction Algorithms for Recommendation Systems”. HDMS 2004

■ **Manos Papagelis**, Dimitris Plexousakis. “Recommendation Based Discovery of Dynamic Virtual Communities”. CAiSE 2003

*Workshops* ■ *Gautam Das, Nick Koudas, Manos Papagelis, Sushruth Puttaswamy*. “Efficient Sampling of Information in Social Networks”. CIKM/SSM 2008

■ *Martin Doerr, Manos Papagelis*. “Precision Estimation for Matching Place Names to a Digital Gazetteer”. ECDL/NKOS 2004

■ **Manos Papagelis**, Dimitris Plexousakis. “Qualitative Analysis of User-based and Item-based Prediction Algorithms for Recommendation Agents”. CIA 2004

*Magazines* ■ **Manos Papagelis**, Dimitris Plexousakis. “CONFIOUS: Conference Management System with Intelligence, Power and Style”. ERCIM News Magazine, vol. 64, Jan 2006

*Patents* ■ *Vanessa Murdock, Roelof van Zowl, Manos Papagelis*,. “Media or Content Tagging Determined by User Credibility Signals”. US Patent App. 12/898,654, 2010

■ *Vanessa Murdock, Roelof van Zowl, Manos Papagelis*,. “Measuring or Estimating User Credibility”. US Patent App. 12/898,644, 2010

*Theses* ■ **Manos Papagelis**. “Understanding and Improving Online Social Interactions and Processes: Methods, Algorithms & Applications”. PhD Thesis, Apr 2015

■ **Manos Papagelis**. “Crawling The Algorithmic Foundations of Recommendation Technologies”. M.Sc. Thesis, Mar 2005

■ **Manos Papagelis**. “Study and Implementation of User-based Recommendation Algorithms and their role in the Formation of Online Virtual Communities”. B.Sc. Thesis, Sep 2003

## CITATIONS ANALYSIS

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Google Scholar Citations profile: <http://goo.gl/3bi9m>

## REVIEWER/ EXTERNAL REVIEWER

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*Journals* ■ ACM TKDD, ACM TODS, ACM TOIT, ACM TIST, ACM TWEB, PVLDB, IEEE TKDE, IEEE IC, IEEE TIFS, IEEE J-STSP, Social Network Analysis and Mining, Information Systems, Information Sciences, Internet Mathematics, Computer and Informatics, Artificial Intelligence Tools, Machine Learning

*Conferences* ■ CIKM2017, SEA2017, ISCC2017, ICDE15, EDBT15, EDBT14, KDD14, KDD13, KDD08, KDD07, WWW10, CIKM10, HT12, HT10, ISWC05, ISWC04

*Workshops* ■ SMUC11, SMUC10, MSM09

## TEACHING EXPERIENCE

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*Jul'16-present* **York University, Toronto, Canada**

*Job Title* Assistant Professor

*Job Description* Teaching courses of Computer Science

■ Information Networks, Big Data Systems

*Aug'15-Aug-16* **University of California, Berkeley, United States**

*Job Title* *Professional Faculty*  
*Job Description* Teaching at UC Berkeley's School of Information Master in Data Science (MIDS) program:  
■ Data Science W205 - Storing and Retrieving Data (Masters Course), F15

*Sep'10-Apr'15* **University of Toronto, Canada**  
*Job Title* *Sessional Lecturer/Course Instructor*  
*Job Description* Instructor of Computer Science and Computer Engineering courses:  
■ CSC343 - Introduction to Databases (3rd year course), F11, F12, F13, W14, F14, W15  
■ CSC309 - Programming on the Web (3rd year course), S11, S12, W15  
■ CSC209 - Software Tools and Systems Programming (2nd year course), W12, S13  
■ APS106 - Fundamentals of Computer Programming (1st year course), W13  
■ APS105 - Computer Fundamentals (1st year course), F10

*Sep'05-Sep'10* **University of Toronto, Canada**  
*Job Title* *Teaching Assistant*  
*Job Description* I have been a teaching assistant in various courses of the Computer Science curriculum including: Introduction to Databases, Software Engineering, Programming on the Web, Information Systems Analysis and Design, Computer Science for the Sciences, Software Tools and Systems Programming, Data Base Management Systems, Business Process and Workflow Management Systems.

*Jun'05-Jul'05* **Prefecture of Heraklion, Crete, Greece**  
*Job Title* *Volunteer Instructor - Introduction to Computing*  
*Job Description* I have been responsible for all aspects of the course, including delivering the lectures and planning tutorials, assignments and tests.

*Jan'03-Jan'05* **University of Crete, Greece**  
*Job Title* *Teaching Assistant*  
*Job Description* I have been a teaching assistant in various courses of the Computer Science curriculum including: Business Process and Workflow Management Systems, Data Base Management Systems, Web Programming.

## RESEARCH EXPERIENCE

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*Aug'15-now* **University of California, Berkeley, United States**  
*Job Title* *Postdoctoral Scholar*  
*Job Description* Research related to topics of:  
■ Data Mining and Analysis  
■ Graph and Information Network Mining  
■ Databases and Knowledge Discovery  
■ Smart Cities and City Science

*Sep'12-Aug'15* **University of Toronto, Canada**  
*Job Title* *Research Fellow/Software Architect*  
*Job Description* I have been involved in a research and development project which main objective is to design and develop a middleware platform that can enable socio-technical analytics of Green Buildings; publishable research work related to:  
■ Smart Cities and Big Data

- Sep'05-Apr'15*    **University of Toronto, Canada**  
*Job Title*    *Research Fellow*  
*Job Description*    Publishable research work related to:  
                          ■ Algorithmic and Computational Aspects of Online Social Interactions  
                          ■ Social Search and Search Personalization  
                          ■ Online Social Navigation
- Sep'05-now*    **Self-Employed**  
*Job Title*    *System Architect of Confious (www.confious.com)*  
*Job Description*    Development and Distribution of the Confious Conference Management System.
- Jun'10-Aug'10*    **Yahoo! Research, Barcelona, Spain**  
*Job Title*    *Research Intern*  
*Job Description*    Publishable research work related to:  
                          ■ Influence Maximization in Online Social Media  
                          ■ Graph Augmentation Algorithms
- May'09-Jul'09*    **Yahoo! Research, Barcelona, Spain**  
*Job Title*    *Research Intern*  
*Job Description*    Publishable research work related to:  
                          ■ Social Influence in Online Social Media  
                          ■ Models of User Credibility in Online Social Media
- Sep'02-Sep'05*    **Foundation of Research and Technology Hellas (FORTH)**  
                          **Institute of Computer Science (ICS)**  
                          **Information Systems Laboratory**  
*Job Title*    *Research Fellow*  
*Job Description*    Publishable research work related to:  
                          ■ Recommendation Algorithms and Online Reputation Systems  
                          ■ Automatic Place Name Identification for Geospatial Data Integration  
                          ■ Computer Supported Collaborative Work  
                          In addition, development of:  
                          ■ A Knowledge Base for Museum Objects & Semantic Web Tools  
                          ■ A Geospatial Data Integration System  
                          ■ A Movie Recommendation System  
                          ■ A Conference Management System
- Oct'99-Sep'01*    **Atlantis Group Research Unit, University of Crete, Greece**  
*Job Title*    *Founding Member of the Group/ Software Engineer*  
*Job Description*    Development of Web Portals and Mobile Services.

LANGUAGES \_\_\_\_\_

- Greek*    Native  
*English*    Fluent - Hold Certificate of Proficiency in English, University of Michigan  
*French*    Basic - Hold Certificate of Proficiency in French (Sorbonne II), Sorbonne

MEMBERSHIPS AND ASSOCIATIONS \_\_\_\_\_

ACM Member, IEEE Member

University of Toronto, Canada, Alumni  
University of Crete, Greece, Alumni  
FORTH-ICS, External Collaborator