

# Paltoglou Georgios

Address: Office M1140, Faculty of Science and Engineering, University of Wolverhampton, Wulfruna Street, Wolverhampton, WV1 1LY, UK

Nationality: Greek (EU)

Telephone: (+44) 1902 518584

E-mail: [g.paltoglou@wlv.ac.uk](mailto:g.paltoglou@wlv.ac.uk)

Website: <http://www.wlv.ac.uk/~in0948/>

## Professional Experience

5/2013 – present Senior Lecturer at the School of Mathematics and Computing, Faculty of Science and Engineer, University of Wolverhampton, UK.

9/2011 – 5/2013 Lecturer at the School of Technology, University of Wolverhampton, UK.

2/2009 – 8/2011 Post-doctoral Research Fellow at School of Technology at the University of Wolverhampton, UK.

10/2009 – 11/2009 Visiting lecturer at Faculty of Physics, Warsaw University, Poland.

10/2005 – 12/2008 Researcher in Computer Science at the Alexander Technological Educational Institute of Thessaloniki, Greece.

10/2007 – 12/2008 Laboratory assistant at the Alexander Technological Educational Institute of Thessaloniki, Greece.

2003 – 2005 Math and Computer Science tutor.

## Education

2/2009 – 8/2011 Post-doctoral Research Fellow at School of Technology, University of Wolverhampton, UK.

10/2005 – 12/2008 Ph.D. at Department of Applied Informatics of the University of Macedonia, Greece in the field of Information Retrieval. Grade: 'Excellent'.

2003 – 2005 Post-Graduate studies (M.Sc.) at the Department of Electrical and Computer Engineering of Aristotle University of Thessaloniki, Greece titled "Advanced Informatics and Communication Systems" (Specialization: Network Computing and e-com-merce). Grade: 8.9/10.

1996 – 2002 Bachelor (Hons) from the Department of Mathematics, Aristotle University of Thessaloniki, Greece. Grade: 7.7/10 (upper 10% of department).

1996 Admission at 8<sup>th</sup> place at the Department of Mathematics of Aristotle University of Thessaloniki, Greece.

## Publications

Overview: number of citations: 1,200+ / h-Index: 14 (source: google scholar)

## Journals

1. **G. Paltoglou**. Sentiment-based event detection in Twitter, *Journal of the American Society for Information Science and Technology*, (in press).
2. M. Salampasis, **G. Paltoglou**, A. Giachanou. Using social media for continuous monitoring and mining of consumer behaviour. *International Journal of Electronic Business*, 11(1): 85-96, 2014
3. P. Sobkowicz, M. Thelwall, K. Buckley, **G. Paltoglou**, A. Sobkowicz. Lognormal distributions of user post lengths in Internet discussions - a consequence of the Weber-Fechner law?. *EPJ Data Science*, 2:2, doi:10.1140/epjds14.
4. J. Sienkiewicz, M. Skowron, **G. Paltoglou**, J. Holyst. Entropy-growth-based model of emotionally charged online dialogues. *Advances in Complex Systems*, 16(1350026), 2013.

5. **G. Paltoglou**, M. Thelwall. Seeing stars of valence and arousal in blog posts. *Journal of IEEE Transactions of Affective Computing*, 99 (PrePrints):1, 2012 (est. Impact Factor: **2.500**).
6. **G. Paltoglou**, M. Theunis, A. Kappas, M. Thelwall. Predicting emotional responses to long informal text. *Journal of IEEE Transactions of Affective Computing*, 99 (PrePrints):1, 2012 (est. Impact Factor: **2.500**).
7. A. Chmiel, J. Sienkiewicz, M. Thelwall M., **G. Paltoglou**, K. Buckley, A. Kappas A., J.A. Holyst. Collective Emotions Online and Their Influence on Community Life. *PLoS ONE*, 6(7): e22207, 2011 (Impact Factor: **4.351**).
8. M. Thelwall, K. Buckley, **G. Paltoglou**. Sentiment Strength Detection for the Social Web. *Journal of the American Society for Information Science and Technology*, 63(1):163-173, 2012. (Impact Factor: **2.300**).
9. **G. Paltoglou**, M. Thelwall. Twitter, MySpace, Digg: Unsupervised sentiment analysis in social media. *ACM Transactions on Intelligent Systems and Technology*, Special Issue on Search and Mining User Generated Contents, 3(4):66:1-66:19, 2012 (Special Issue, acceptance Rate: **14%**).
10. A. Chmiel, P. Sobkowicz, J. Sienkiewicz, **G. Paltoglou**, K. Buckley, M. Thelwall , J.A. Hołyst. Negative emotions boost user activity at BBC forum. *Physica A: Statistical Mechanics and its Applications*, 390 (16): 2936-2944, 2011 (Impact Factor: **1.562**).
11. M. Mitrovic, **G. Paltoglou**, B. Tadi. Quantitative analysis of bloggers collective behavior powered by emotions. *J. of Stat. Mech.: Theory and Experiment*, P02005, 2011 (Impact Factor: **2.670**).
12. M. Thelwall, K. Buckley, **G. Paltoglou**. Sentiment in Twitter events. *Journal of the American Society for Information Science and Technology*, 62(2): 406-418, 2011 (Impact Factor: **2.300**).
13. M. Mitrovic, **G. Paltoglou**, B. Tadi. Networks and Emotion-Driven User Communities at Popular Blogs. *The European Physical Journal B*, 77 (4): 597-609, 2011 (Impact Factor: **1.466**).
14. M. Thelwall, K. Buckley, **G. Paltoglou**, D. Cai, A. Kappas. Sentiment strength detection in short informal text. *Journal of the American Society for Information Science and Technology*, 61(12): 2544-2558, 2010 (Impact Factor: **2.300**).
15. S. Gobron, J. Ahn, **G. Paltoglou**, M. Thelwall, D. Thalmann. From Sentence to Emotion: Real-time Three-Dimensional Graphics Metaphor of Emotions Extracted from Text. *The Visual Computer Journal*, 26(8): 505-519,2010 (Impact Factor: **1.06**).
16. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Collection-integral Source Selection for uncooperative distributed information retrieval environments. *Information Sciences*, 180(14): 2763-2776, 2010 (Impact Factor: **3.095**).
17. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Modeling information sources as integrals for effective and efficient source selection. *Information Processing and Management Journal*, 47(1): 18-36, 2011 (Impact Factor: **1.852**).
18. **G. Paltoglou**, M. Salampasis, M. Satratzemi. A results merging algorithm for distributed information retrieval environments that combines regression methodologies with a selective download phase. *Inf. Proc. and Management*, 44(4): 1580-1599, 2008 (Impact Factor: **1.546**).

#### Book chapters

1. **G. Paltoglou**. Sentiment Analysis in Social Media. In: N. Agarwal and M. Lim and R.T.Wigard, Online Collective Action: Dynamics of the Crowd in Social Media, *Lecture Notes in Social Networks Series*, Springer International Publishing, pages 3-17, 2014.
2. A. Chmiel, J. Sienkiewicz, **G. Paltoglou**, K. Buckley, M. Skowron, M. Thelwall, A. Kappas, J. A. Hołyst. Collective Emotions Onlin. In: N. Agarwal and M. Lim and R.T.Wigard, Online Collective Action: Dynamics of the Crowd in Social Media, *Lecture Notes in Social Networks Series*, Springer International Publishing, pages 59-74, 2014.
3. S. Gonzalez-Bailon, **G. Paltoglou**. Signals of public opinion in online communication: A comparison of methods and data sources. In: D. V. Shah, J. Capella and W. R. Neuman, Toward Computational Social Science: Big Data in Digital Environments, *ANNALS of the American Academy of Political and Social Science*, 2014 (in press).
4. **G. Paltoglou**, A. Giahannou. Opinion Retrieval: Searching for Opinions in social media. In: G.

Paltoglou, F. Loizides, P. Hansen, Professional Search in the Modern World, *Lecture Notes in Computer Science, Springer International Publishing*, 2014 (in press).

#### Books / Edited Books

1. **G. Paltoglou**, F. Loizides, P. Hansen. Professional Search in the Modern World, *Lecture Notes in Computer Science (LNCS 8830)*, Springer International Publishing, 2014 (in press).
2. M. Santini, M. Oakes, **G. Paltoglou**. Computational Theory of Digital Genre: Genre Theory in the Context of Text Analytics, *Springer International Publishing*, 2015 (in preparation).

#### Conference / Workshops

1. **G. Paltoglou**. Using Twitter and Sentiment analysis for event detection. In *LREC 2014: 9th International Conference on Language Resources and Evaluation*, 2014.
2. **G. Paltoglou**, M. Thelwall. More than bag-of-words: Sentence-based document representation for sentiment analysis. In *RANLP 2013: Recent Advances in Natural Language Processing*, pages 546-552, 2013.
3. **G. Paltoglou**, K. Buckley. Subjectivity annotation of the Microblog 2011 Realtime Adhoc relevance judgments. In *ECIR 2013: 35th European Conference on Information Retrieval*, pages 344 - 355, 2013 (Acceptance Rate: **16%**).
4. M. Salampasis, **G. Paltoglou**, A. Giahanou. Report on the CLEF-IP 2012 Experiments: Search of Topically Organized Patents. In *CLEF 2012: Conference and Labs of the Evaluation Forum*, Online Working Notes/Labs/Workshop, 2012.
5. **G. Paltoglou**, M. Thelwall. University of Wolverhampton at the TREC-2012 Microblog Track. In *TREC 2012: 20th Text REtrieval Conference*, Gaithersburg, Maryland, 2011.
6. M. Salampasis, **G. Paltoglou**, A. Giahanou. Using Social Media for Continuous Monitoring and Mining of Consumer Behaviour. In *HAICTA 2011: 5th International Conference on Information and Communication Technologies in Agriculture*, 2011.
7. St. Gobron , J. Ahn, Q. Silvestre, D. Thalmann, S. Rank, M. Skowron, **G. Paltoglou**, M. Thelwall. An Interdisciplinary VR-architecture for 3D chatting with non-verbal communication. In *EGVE 2011: Joint Virtual Reality Conference of EuroVR*, pages 87 - 94, 2011.
8. M. Skowron, H. Pirker, S. Rank, **G. Paltoglou**, J. Ahn, S. Gobron. No peanuts! Affective Cues for the Virtual Bartender. In *24th Florida Artificial Intelligence Research Society Conference*, 2011.
9. M. Skowron, **G. Paltoglou**. Affect Bartender - Affective Cues and Their Application in a Conversational Agent. In *2011 Workshop on Affective Computational Intelligence*, pages 1 - 7, 2011.
10. **G. Paltoglou**, S. Gobron, M. Skowron, M. Thelwall, D. Thalmann. Sentiment analysis of informal textual communication in cyberspace. In *Engage 2010, Springer LNCS State-of-the-Art Survey*, pages 13 - 25, 2010.
11. **G. Paltoglou**, M. Thelwall. A study of Information Retrieval weighting schemes for sentiment analysis. In *ACL 2010: 48th Annual Meeting of the Association for Computational Linguistics*, pages 1386 - 1395, 2010 (Acceptance Rate: **25%**).
12. **G. Paltoglou**, M. Thelwall, K. Buckley. Online textual communications annotated with grades of emotion strength, In *3rd International Workshop of Emotion: Corpora for research on Emotion and Affect*, pages 25 - 31, 2010.
13. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Simple adaptations of data fusion algorithms for source selection. In *ECIR 2009: 31st European Conference on Information Retrieval*, pages 497 - 508, 2009 (Acceptance Rate: **22%**).
14. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Integral Based Source Selection for Uncooperative Distributed Information Retrieval Environments. In *LSDS-IR 2008: Large-Scale Distributed Systems for Information Retrieval*, pages 67 - 74, 2008.
15. **G. Paltoglou**, M. Salampasis, F. Lazarinis. Indexing and Retrieval of a Greek Corpus In *iNEWS 2008: Improving Non English Web Searching*, pages 47 - 54, 2008.
16. **G. Paltoglou**, M. Salampasis, M. Satratzemi. A Comparison of Centralized and Distributed Information Retrieval approaches. In *PCI 2008: 12th Panhellenic Conference on Informatics*, pages

21 - 25, 2008.

17. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Hybrid Results Merging. In *CIKM 2007: 16th Conference on Information and Knowledge Management*, pages 321 - 330, 2007 (Acceptance Rate: 17%).
18. **G. Paltoglou**, M. Salampasis, M. Satratzemi. Results Merging Algorithm Using Multiple Regression Models. In *ECIR 2007: 29th European Conference on Information Retrieval*, pages 173 - 184, 2007 (Acceptance Rate: 19%).
19. **G. Paltoglou**, M. Salampasis, M. Satratzemi, G. Evangelidis. Using linkage information to approximate the distribution of relevant documents in DIR. In *PCI 2007: 11th Panhellenic Conference on Informatics*, pages 234 - 244, 2007.

## Teaching (past & present)

- **Faculty of Science and Engineering, University of Wolverhampton, UK**

Undergraduate:

1st Year:

- Website Fundamentals
- Object Orientated Analysis, Design and Programming [module leader]

2nd Year:

- Creative Digital Media [module leader]
- Distributed and Concurrent Systems
- Software Engineering Practices

3rd Year:

- Computing and Complexity [1/3 module leader]
- Advanced Multimedia Authoring
- Advanced Web Technologies
- High Performance Computing

Postgraduate:

- Research Methods and Professional Skills [module leader]

- **Department of Informatics, Alexander Technological Educational Institute of Thessaloniki, Greece**

Undergraduate:

- Programming of Web Applications (6th semester)
- Databases II (6th semester).

## Research-related Teaching

- **Big Data: Modelling Methods and Communication Studies Summer School (China, July 2014)**
  - Sentiment Analysis: Detection and analysis opinions and affect in social media
- **3rd Mu.M.I.A. Training School – Building Next Generation Search Systems (Greece, July 2014)**
  - Opinion Retrieval: Looking for opinions in the wild
- **9th European Summer School in Information Retrieval – ESSIR (Spain, Sept 2013)**
  - Opinion Retrieval: Looking for opinions in the wild
- **1st Mu.M.I.A. Training School – Building Next Generation Search Systems (Greece, Sept 2012)**
  - Distributed Information Retrieval for Patent Search
- **Warsaw University, Faculty of Physics (Poland, Dec 2009)**
  - Introduction to Opinion Mining and Sentiment Analysis

## Ph.D. Examinations

- **Internal**
  - Iustin Dornescu: “Encyclopaedic Question Answering” (6/2012)

- Iustina Ilisei: “Machine Learning Impact on Translation Theory: Translationese Learning Model” (12/2012)
- Natalia Ponomareva: “Graph-based approaches for semi-supervised and cross-domain sentiment analysis” (4/2014)

- **External**

- Andrea Varga: “Exploiting Domain Knowledge for Adaptive Text Classification in Large Heterogeneous Data Sources”, University of Sheffield (8/2014)

### Managerial

7/2012 – present	Deputy Award Leader of the Computer Science degree at School of Mathematics and Computer Science, University of Wolverhampton.
4/2012 – present	Member of the Student Management Board of the Research Institute in Information and Language Processing (RIILP) of the University of Wolverhampton.
2/2009 – present	Member of the Statistical Cybermetrics Research Group (SCRG) of the University of Wolverhampton.

### Funding / Projects

8/2014	Participant in Horizon 2020 (MG-7.1-2014) proposal: “OPTIMUM: Multi-source Big Data Fusion Driven Proactivity for Intelligent Mobility”, £500K (successful 1 <sup>st</sup> stage, 2 <sup>nd</sup> stage submission under review).
6/2014-6/2015	Principal Investigator of “Future Learning Environment” project (University of Wolverhampton), 1 year, £4K.
11/2013-5/2015	Principal Investigator of Yahoo! Faculty Research and Engagement Program project “Domain-specific sentiment analysis web service”, 1 year, \$15K.
12/2010 – 11/2014	Dissemination Chair of EU FP7 COST Action ‘Multilingual and Multifaceted Interactive Information Access (Mu.M.I.A.)’
9/2011 – 8/2012	Principal Investigator of Early Researcher Award Scheme (ERAS) project “SOpA: Social Opinion Aggregator”, £5K, University of Wolverhampton.
2/2009 – 2/2013	Researcher at FP7 IP project ‘CyberEmotions: Collective Emotions in Cyberspace’.

### Languages

English: Excellent Level (Michigan Proficiency: A and TOEFL: 290/300)

French: Good Level (DELFF A1, A3, A4 and “Certificat de langue française”).

Greek: Native speaker

### Other knowledge

Programming languages: Java (excellent), Scala (very good), Python (very good), C/C++ (very good), SQL (very good), Javascript (very good), PHP (excellent), C# (average).

Specialized software/SDKs: Matlab, Mathematica, Octave, SPSS, Weka, GATE, Mallet, Lingpipe, Lemur/Indri, Terrier.

Relational database management systems: Microsoft SQL Server, Postgres, IBM DB2, MySQL.

IDEs etc.: Eclipse, Visual Studio, Dreamweaver, Subversion, JUnit, VirtualBox

Excellent knowledge and use of a PC in a Windows environment and Microsoft Office suite.

Good knowledge of Linux (Ubuntu/Mint distributions).

Blind typing.

Diploma in classical piano.

### Interests

Music: classical, jazz, rock, etc.

Chess: 10th prize at local contest.

Sports: skiing, sailing, trekking, tennis, jiu jitsu (green belt).

### **Recommendation letters**

Available if asked.