

PANAGIOTIS SYMEONIDIS



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SHORT BIO

Panagiotis Symeonidis is Assistant Professor at the Faculty of Computer Science (scientific sector INF/01) of the Free University of Bolzano, Italy, since November 2016. Before moving to Bolzano he worked for 8 years as Adjunct Assistant Professor at the Department of Informatics of the Aristotle University of Thessaloniki, Greece. He received a B.Sc. degree in Applied Informatics from University of Macedonia at Thessaloniki in 1996. He also received a n M.Sc. degree in Information Systems from the same university in 2004. He received his Ph.D. in Web Mining and Information Retrieval for Personalization from the Department of Informatics of the Aristotle University of Thessaloniki in 2008. His research interests include web mining (usage mining, content mining and graph mining), information retrieval, collaborative filtering, recommender systems, social media in Web 2.0 and location-based social networks. He is co-author of 3 international books, 1 Greek book, 5 book chapters, 20 journal publications and 35 conference/workshop publications. His published papers have received more than 2150 citations according to google scholar. Two out of three of his journal publications were published in top-tier or highly ranked journals. One out of three of his conference publications have been published in top-tier or highly ranked conferences.

Vision

My vision for the next couple of years is to combine social media analytics, graph and stream mining algorithms together with recommender systems and apply them in domains such as online news media, tourism, Internet of Things, and Health Analytics, where the main problems are the “curse” of dimensionality and the need for real-time predictions along with explanations.

EDUCATION

PhD	Aristotle University of Thessaloniki, Greece, Computer Science Thesis: “Data Mining for Web Personalization” Supervisor: Yannis Manolopoulos	June 2008
MS	University of Macedonia, Thessaloniki, Greece, Information Systems Thesis: “A Content-based Management System for Web” Advisor: Konstantinos Tarabanis	May 2004
BS	University of Macedonia, Greece, Applied Informatics Grade 7,45/10	May 1996

SCHOLARSHIPS, HONOURS AND AWARDS

Italian Habilitation

2017

I got the Italian Habilitation Certificate in 2017, which makes me eligible to apply for any tenure track professorship position (in the level of Associate Professor) in Italy for the research domain 01/B1 informatics.

Greek State Scholarship

2013

4-month scholarship from the Greek Scholarship Foundation (IKY) for post-doctoral research in Magdeburg University with subject “Recommender Systems in multi-dimensional Social Networks”

German State Scholarship

2012

4-month scholarship from the German Scholarship Foundation (DAAD) for post-doctoral research in Magdeburg University with subject “Recommender Systems in time evolving Social Networks”

Aristotle University Scholarship

2010

1-year scholarship to perform research at the Aristotle University of Thessaloniki, Greece

Greek State Scholarship

2005

3-year scholarship for Ph.D. studies from the Greek Scholarship Foundation (IKY)

Innovative Business Plan Award

2008

Award for an Innovative Business Plan by the “Innovative Ideas Contest” of the Region of Central Macedonia, Greece for the research proposal “IPTV Explain: Providing Explained Recommendations for Digital Content”

ADMINISTRATIVE EXPERIENCE

Director and Chief Executive

19/08/2011 - 31/07/2015

Head of the 1st Laboratory Center of Stavroupoli Thessaloniki
1st EK Stavroupolis
Thrakis 4, 56430 Thessaloniki (Greece)

RESEARCH EXPERIENCE

Free University of Bolzano, Italy

2016 – 2019

- 2018-2019: MediaRec - News Recommendation based on heterogeneous and dynamic data from social media €5.000 (Role:PI)
- 2018-2019: RecTV – Recommender for TV Shows in collaboration with KIM -Keep in Mind Srl (role: PI)
- 2018-2020: Piattaforma modulare per la gestione territoriale “Simultaneous Care” del paziente oncologico (ONCOnet2) – total budget of the project Euro ~25.000 (role: co-PI)
- 2017-2019: Development of a decision support system for the determination of postharvest disorders and diseases of apples (DSSApple) – total budget of the project Euro 192.500
- 1/6/2017-1/6/2018: Improving the Quality of Recommender Systems (IMPRESS) – total budget of the project Euro 9.996

Aristotle University of Thessaloniki, Greece

2007 - 2013

- 1/4/2012 – 31/5/2013: Bilateral Greek–Turkey project (10.000 €) with subject “Data mining for social web”
- 1/1/2011 – 31/12/2012: Bilateral Greek-German project with the code name IKYDA 2011 (15.000 €) with subject “A recommendation Engine for social Web”
- 9/8/2010 – 31/5/2012: Initial Vocational Training of Leonardo Da Vinci project from EU (75.987 €) with the subject “Information Technology for touristic businesses in Europe”
- 1/5/2007 – 1 /12/2007: Development of a collaborative platform for targeted advertising to Internet users (5000€) project code 04VEN71 PAVE NE 2004 of the General Secretariat for Research and Technology of Greece

TEACHING EXPERIENCE

Free University of Bolzano, Italy

2016 -2018

Assistant Professor, Faculty of Computer Science

Courses taught in academic years 2016-2017 and 2018-2019

- Data bases (48h Exercises), BSc – Autumn Semester 2017
- Internet and Mobile Services (24h Exercises), BSc – Spring Semester 2017
- Data bases (24h Exercises), BSc – Autumn Semester 2018
- Information Search and Retrieval (24h Exercises), MSc, Spring Semester 2018

Doctoral Students (co-supervising with Prof. Markus Zanker)

- Ludovik Coba, thesis title: “Offline and Online Evaluation of Recommender Systems”
- ChemsEddine Berbague, thesis title: “Studying Novelty and Diversity in Recommender Systems (**co-supervisor with Prof. Hassina Seridi, Annaba University, Algeria**)”

Masters Students Advised

- Dmitry Chaltcev, thesis title: “Session-based News Recommendation using Markov and Probabilistic Modelling”, July 2018
- Lidija Kirjackaja, thesis title: “Recommending News Using Graph-based Algorithms”, June 2018

Aristotle University of Thessaloniki, Greece

2008 - 2015

Adjunct Assistant Professor, Department of Computer Science

Courses taught in Academic years 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016

- Databases for businesses at the Post Graduate Program of Departments of Informatics and Economics (Autumn Semester)
- Data Mining at the Post Graduate Program of the Departments of Informatics and Economics, Aristotle University of Thessaloniki (Spring Semester)

Doctoral Students (co-supervisor with Prof. Yannis Manolopoulos)

- Alexis Papadimitriou (5 common papers)
Ph.D. Thesis: “Algorithms for Data Management and Data Knowledge Extraction in Graphs” (2012).
- Pavlos Kefalas (4 common papers)
Ph.D. Thesis: “Recommendation Models for Big Spatio-Temporal Data” (2017).

Masters Students Advised

A/A Student Name. Master Thesis Title, academic year

- Stergios Xairistanidis, Beacommender: A Sensor-based Recommender System for Smart Phones, 2015-2016
- Malakoudis Dimitrios, MOOC Recommendation through Enhanced Matrix Factorization Techniques, 2015-2016
- Georgia Papagianni, Recommendation Algorithms in Twitter, 2015-2016
- Evaggelia Theodoridou, Link Prediction in Social Networks with Graph Mining, 2015-2016
- Zioupos Andreas. Dimensionality Reduction in Social Networks, 2014-2015
- Aggeliki Mitsou, Effective Management of Waiting Lines for Banks: DoNotWait.gr Case Study, 2015-2016
- Mavromati Styliani. Anomaly Detection from Big and Open Data, 2014-2015
- Misirgi Eleni. Advertising and Cross-selling in Social Media, 2013-2014
- Nikopoulos Dimitris. Behavioural Analytics and Social Mining, 2013-2014
- Tsiptsas Naoum. Data Mining for Economic Crisis Detection, 2013-2014
- Dimitrios Ntempos. A Survey on Location-based Social Networks, 2012-2013

- Emmanouil Daskalakis. MapReduce for Recommender Systems, 2012-2013
- Antonios Krinis. Location-based Social Networks Website, 2011-2012
- Foivos Koliopoulos. Data Mining with SQL Server and R Environments, 2011-2012
- Athanasios Floros. A Recommendation Engine for Academic Jobs, 2011-2012
- Pantelis Logginidis. Data Mining for Business Intelligence, 2010-2011
- Christos Perentis. Link Prediction in Multi-Modal Social Networks, 2010-2011
- Ivaylo Kehayov. Text Data Mining, 2010-2011
- Nikolaos Mantas. Web Data Mining in Social Networks, 2009-2010

University of Western Macedonia, Greece

2008 - 2011

Adjunct Assistant Professor, Department of Computer Engineering and Tele-communications

Courses taught in Academic years 2008-2009, 2009-2010, 2010-2011

- Databases (B.Sc., Autumn semester 2008)
- Internet Programming (B.Sc., Spring semester 2009)
- Advanced Databases (B.Sc., Autumn semester 2010)
- Advanced Software Engineering (B.Sc., Spring semester 2011)

PUBLICATIONS

Greek Textbook

1. Παναγιώτης Συμεωνίδης, Γούναρης Αναστάσιος, “*Βάσεις Αποθήκες και Εξόρυξη Δεδομένων: Στο Εργαστήριο με τον SQL Server*” (Data bases, Data warehouses, and Data Mining with SQL Server) Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών. Available to: <http://hdl.handle.net/11419/276>, ISBN: 978-960-603-021-5

International Books/Monographs

1. P. Symeonidis, A. Zioupos: “*Matrix and Tensor Factorization Techniques for Recommender Systems*”, Series: Springer Briefs in Computer Science, 2017, 102 pages, 29 b/w illustrations, 22 illustrations in colour, ISBN, 978-3-319-41356-3 DOI: 10.1007/978-3-319-41357-0
2. P. Symeonidis, D. Ntempos, Y. Manolopoulos: “*Recommender Systems for Location-based Social Networks*”, Series: Springer Briefs in Electrical and Computer Engineering, 2014, 118 pages, 41 illus., Softcover, ISBN 978-1-4939-0285-9
3. L. Balby Marinho, A. Hotho, R. Jäschke, A. Nanopoulos, S. Rendle, L. Schmidt-Thieme, G. Stumme, P. Symeonidis: “*Recommender Systems for Social Tagging Systems*”, Series: Springer Briefs in Electrical and Computer Engineering, 2012, 115 pages, 35 illus., Softcover, ISBN 978-1-4614-1893

Journal Publications

1. P. Symeonidis, D. Malakoiudis: “Multi-Modal Matrix Factorization with Side Information for Recommending Massive Open Online Courses”, *Expert Systems with Applications*, Vol. 118, pp. 261 – 271, 2019, DOI: <https://doi.org/10.1016/j.eswa.2018.09.053>
2. P. Kefalas, P. Symeonidis, Y. Manolopoulos: “Recommendations Based on a Heterogeneous Spatio-temporal Social Network”, *World Wide Web*, Vol. 21, N. 2, pp. 345-371, 2017. **(Impact factor in 2017: 1.405)**
3. P. Kefalas, P. Symeonidis, Y. Manolopoulos: “A Graph-based Taxonomy of Recommendation Algorithms and Systems in LBSNs”, *IEEE Transactions on Knowledge & Data Engineering*, Vol.28, N.3, pp. 604-622, 2016. **(Impact factor in 2016: 3.438)**
4. P. Symeonidis: “ClustHOSVD: Item Recommendation by Combining Semantically-enhanced Tag Clustering with Tensor HOSVD”, *IEEE Transactions on Systems, Man & Cybernetics - Part A: Systems & Humans*, Vol. 46, No. 9, 2016. **(Impact factor in 2016: 2.350)**
5. M. Sattari, I. Toroslu, P. Karagoz, P. Symeonidis, Y. Manolopoulos: “Extended Feature Combination Model for Recommendations in Location-based Mobile Services”, *Knowledge & Information Systems*, Vol.3, N.44, pp. 629-661, 2015. **(Impact factor in 2015: 1.702)**
6. Z.F. Siddiqui, E. Tiakas, P. Symeonidis, M. Spiliopoulou, Y. Manolopoulos: “Learning Relational User Profiles and Recommending Items as their Preferences Change”, *International Journal of AI Tools*, Vol.24, N.2, 2015. **(impact factor in 2015: 0.530)**
7. P. Symeonidis, E. Tiakas: “Transitive Node Similarity: Predicting and Recommending Links in Signed Social Networks”, *World Wide Web*, Vol.17, No.4, pp.743-776, 2014. **(impact factor in 2014: 1.474)**
8. P. Symeonidis, E. Tiakas, Y. Manolopoulos: “A Unified Framework for Link and Rating Prediction in Multi-modal Social Networks”, *International Journal of Social Network Mining*, Vol.1, No.3/4, 2013.
9. P. Symeonidis, N. Mantas: “Spectral Clustering for Link Prediction in Social Networks with Positive and Negative Links”, *Social Network Analysis & Mining*, Vol.3, No.4, pp.1433-1447, 2013. **(impact factor in 2013: 0.503)**
10. P. Symeonidis, N. Iakovidou, N. Mantas, Y. Manolopoulos: “From Biological to Social Networks: Link prediction based on Multi-way Spectral Clustering”, *Data & Knowledge Engineering*, Vol.87, pp.226-242, 2013. **(impact factor in 2013: 1.489)**
11. P. Longinidis, P. Symeonidis: “Corporate Dividend Policy Determinants: Intelligent versus a Traditional Approach”, *Intelligent Systems in Accounting, Finance & Management*, Vol.20, No.2, pp.111-139, 2013.

12. A. Papadimitriou, P. Symeonidis, Y. Manolopoulos: “Fast and Accurate Link Prediction in Social Networking Systems”, *Journal of Systems & Software*, Vol.85, No.9, pp.2119-2132, 2012. **(impact factor in 2012: 1.135)**
13. A. Papadimitriou, P. Symeonidis, Y. Manolopoulos: “A Generalized Taxonomy of Explanations Styles for Traditional and Social Recommender Systems”, *Data Mining & Knowledge Discovery*, pp.1-29, 2011. **(impact factor in 2011: 1.545)**
14. P. Symeonidis, A. Nanopoulos, Y. Manolopoulos: “A Unified Framework for Providing Recommendations in Social Tagging Systems Based on Ternary Semantic Analysis”, *IEEE Transactions on Knowledge & Data Engineering*, Vol.22, No.2, 2010. **(impact factor in 2010: 1.851)**
15. A. Nanopoulos, D. Rafailidis, P. Symeonidis, Y. Manolopoulos: “MusicBox: Personalized Music Recommendation based on Cubic Analysis of Social Tags”, *IEEE Transactions on Audio, Speech & Language Processing*, Vol.18, No.2, 2010. **(impact factor in 2010: 1.668)**
16. A. Deligiaouri, P. Symeonidis: “Skai (TV) - YouTube Debate”: A New Era of Internetized Television Politics”, *International Journal of E-Politics*, Vol.1, No.2, 2010 (publisher: IGI global).
17. P. Symeonidis, A. Deligiaouri: “Recommending Posts in Political Blogs based on Tensor Dimensionality Reduction”, *International Journal of Engineering Intelligent Systems*, Vol.17, No.2-3, 2009. **(impact factor in 2009: 0.205)**
18. P. Symeonidis, A. Nanopoulos, Y. Manolopoulos: “Providing Justifications in Recommender Systems”, *IEEE Transactions on Systems, Man & Cybernetics - Part A: Systems & Humans*, Vol.38, No.6, 2008. **(impact factor in 2008: 1.350)**
19. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Nearest-biclusters Collaborative Filtering with Constant and Coherent Values”, *Information Retrieval*, Vol.11, No.1, 2008. **(5-year impact factor in 2008: 1.396)**
20. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Collaborative Filtering Systems: Combining Effectiveness and Efficiency”, *Expert Systems with Applications*, Vol.34, No.4, pp.51-75, 2008. **(impact factor in 2008: 2.596)**

Book Chapters

1. P. Symeonidis, D. Malakoudis: “MoocRec.com: Massive Open Online Courses recommender system” chapter in the book entitled “*Collaborative Recommendations: Algorithms, Practical Challenges and Applications*” (to appear in the end of 2018).
2. P. Symeonidis: “Matrix and Tensor Factorization in Recommender Systems”, chapter in the book entitled “*Graph-based Social Media Analysis*”, by I. Pitas (ed.), CRC Press, Taylor & Francis group, Chapman & Hall/CRC, pp. 187-210, 2015, 2015.
3. L. Marinho, A. Nanopoulos, L. Schmidt-Thieme, R. Jaschke, A. Hotho, G. Stumme, P. Symeonidis: “Social Tagging Recommender Systems”, chapter in book entitled “*Recommender Systems*”

Handbook”, by F. Ricci, L. Rokach, B. Shaphira, P. B. Kantor (eds.): LNCS Springer Book, pp.615-644, 2011.

4. A. Deligiaouri, P. Symeonidis: “Internetized Television Debates: Enhancing Citizens’ Participation”, chapter in book entitled “*E-Politics and Organizational Implications of the Internet: Power, Influence and Social Change*” by C.R. Livermore (ed.), IGI Global, 2011.
5. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Nearest-biclusters Collaborative Filtering based on constant values”, chapter in book entitled “*Advances in Web Mining and Web Usage Analysis*”, by O. Nasraoui, O. Zaiane, M. Spiliopoulou, M. Mobasher, B. Masand, P. Yu (eds.), LNCS Springer, Vol.4811, pp.36-55, 2007.

Conference Papers

1. L. Cöba, M. Zanker, L. Rook, P. Symeonidis: “Decision Making Strategies Differ in the Presence of Collaborative Explanations: Two Conjoint Studies” Proceedings of the 24th International Conference on Intelligent User Interfaces, (to appear), Los Angeles, 2019
2. G. Sottocornola, P. Symeonidis, M. Zanker: “Session-based News Recommendations”, *Companion Proceedings of The Web Conference 2018*, pp. 1395-1399, 2018. International World Wide Web Conferences Steering Committee.
3. L. Cöba, P. Symeonidis, M. Zanker: “Replicating and Improving Top-N Recommendations in Open Source Packages”, *Proceedings of the 8th International Conference on Web Intelligence, Mining and Semantics (WIMS)*, Novi Sad, Serbia, 2018.
4. L. Cöba, M. Zanker, L. Rook, P. Symeonidis: “Exploring Users’ Perception of Rating Summary Statistics”, *Proceedings of the 26th Conference on User Modelling, Adaptation and Personalization (UMAP)*, 2018.
5. L. Cöba, P. Symeonidis, M. Zanker: “Reproducing and Prototyping Recommender Systems in R”, *Proceedings of the 8th Italian Information Retrieval Workshop*, 2017
6. L. Cöba, P. Symeonidis, M. Zanker: “Visual Analysis of Recommendation Performance”, *Proceedings of the 11th ACM Conference on Recommender Systems (RecSys)*, pp.362-363, 2017.
7. P Symeonidis, S Chairistanidis: “CheckInShop.eu: A Sensor-based Recommender System for micro-location Marketing”, *Proceedings of the 11th ACM Conference on Recommender Systems (RecSys)*, pp.351-352, 2017
8. P. Symeonidis: “Matrix and Tensor Decomposition in Recommender Systems”, Tutorial Presentation at ACM RecSys’2016 conference, Boston, 2016.
9. P. Kefalas, P. Symeonidis: “Recommending Friends and Locations over a Heterogeneous Spatio-temporal Graph”, *Proceedings of the 5th International Conference on Model & Data Engineering (MEDI)*, pp. 271-284, Island of Rhodes, Greece, 2015.

10. P. Symeonidis, C. Perentis: “Link Prediction in Multi-modal Social Networks”, *Proceedings of the International Conference on Machine Learning & Knowledge Discovery in Databases (ECML/PKDD)*, pp. 147-162, Nancy France, 2014
11. Z.F. Siddiqui, E. Tiakas, P. Symeonidis, M. Spiliopoulou, Y. Manolopoulos: “xStreams: Providing Item Recommendations to Users with Time-evolving Preferences”, *Proceedings of the 4th International Conference on Web Intelligence, Mining & Semantics (WIMS)*, Thessaloniki, Greece, 2014.
12. P. Kefalas, P. Symeonidis, Y. Manolopoulos: “New Perspectives for Recommendations in Location-based Social Networks: Time, Privacy and Explainability”, *Proceedings of the 5th International Conference on Management of Emergent Digital EcoSystems (MEDES)*, pp.1-8, Neumuenster Abbey, Luxembourg, 2013.
13. P. Symeonidis, A. Krinis, Y. Manolopoulos: “GeoSocialRec: Explaining Recommendations in Location-based Social Networks”, *Proceedings of the 17th East-European Conference on Advanced Databases & Information Systems (ADBIS)*, pp. 84-97, Genova, Italy, 2013.
14. P. Symeonidis., I. Kehayov, Y. Manolopoulos: “Text Classification by Aggregation of SVD Eigenvectors”, *Proceedings of the 16th East-European Conference on Advances in Databases & Information Systems (ADBIS)*, pp.385-398, Poznan, Poland, 2012.
15. M. Sattari, I. Toroslu, P. Senkul, M. Manguoglu, P. Symeonidis, Y. Manolopoulos: “Geo-activity Recommendations by using Improved Feature Combination”, *Proceedings of the 4th ACM UNICOMP International Workshop on Location-Based Social Networks (LBSN)*, Pittsburgh, PA, 2012.
16. A. Papadimitriou, P. Symeonidis, Y. Manolopoulos: “Scalable Link Prediction in Social Networks based on Local Graph Characteristics”, *Proceedings of the 9th International Conference on Information Technology: New Generations (ITNG)*, Las Vegas, NV, 2012
17. P. Symeonidis, E. Tiakas, Y. Manolopoulos: “Product Recommendation and Rating Prediction based on Multi-modal Social Networks”, *Proceedings of the 5th ACM Conference in Recommender Systems (RecSys)*, Chicago, IL, 2011.
18. P. Symeonidis, A. Papadimitriou, Y. Manolopoulos, P. Senkul, I. Toroslu: “Geo-social Recommendations based on Incremental Tensor Reduction and Local Path Traversal”, *Proceedings of the 3rd ACM SIGSPATIAL International Workshop on Location-Based Social Networks (LBSN)*, Chicago, Illinois, 2011
19. A. Papadimitriou, P. Symeonidis, Y. Manolopoulos: “Geo-social Recommendations”, *Proceedings of the RecSys Workshop Personalization on Mobile Applications (PeMA)*, Chicago, Illinois, 2011.
20. A. Papadimitriou, P. Symeonidis, Y. Manolopoulos: “Predicting Links in Social Networks of Trust via Bounded Local Path Traversal”, *Proceedings of the 3rd Conference on Computational Aspects of Social Networks (CASON)*, Salamanca, Spain, 2011.

21. Z.F. Siddiqui, M. Spiliopoulou, P. Symeonidis, E. Tiakas: "A Data Generator for Multi-Stream Data", *Proceedings of the PKDD Workshop Mining Ubiquitous & Social Environments (MUSE)*, Athens, Greece, 2011
22. P. Symeonidis, Y. Manolopoulos: "Explaining Recommendations of Movies in Web Video Rental Businesses", *Proceedings of the 2nd Symposium on Business Informatics in Central & Eastern Europe (CEE)*, Cluj-Napoca, Romania, 2011
23. P. Symeonidis, E. Tiakas, Y. Manolopoulos: "Transitive Node similarity for Link Prediction in Social Networks with positive and negative links", *Proceedings of the 4th ACM Conference in Recommender Systems (RecSys)*, pp.183-190, Barcelona, 2010.
24. N. Iakovidou, P. Symeonidis, Y. Manolopoulos: "Multiway Spectral Clustering Link Prediction in Protein-Protein Interaction Networks", *Proceedings of the 10th IEEE International Conference on Information Technology & Applications in Biomedicine (ITAB)*, Corfu, 2010.
25. P. Symeonidis, A. Nanopoulos, Y. Manolopoulos: "MoviExplain: a Recommender Agent Providing Justified Recommendations", *Proceedings of the 3rd ACM Conference in Recommender Systems (RecSys)*, New York, 2009.
26. P. Symeonidis: "User Recommendations based on Tensor Dimensionality Reduction", *Proceedings of the 5th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI)*, pp.331-341, Thessaloniki, Greece, 2009.
27. P. Symeonidis, A. Nanopoulos, Y. Manolopoulos: "Tag Recommendations based on Tensor Dimensionality Reduction", *Proceedings of the 2nd ACM Conference in Recommender Systems (RecSys)*, pp.43-50, Lausanne, 2008.
28. P. Symeonidis, A. Nanopoulos, Y. Manolopoulos: "Justified Recommendations based on Content and Rating Data", *Proceedings of the 10th WebKDD Workshop in conjunction with KDD Conference*, Las Vegas, NV, 2008.
29. P. Symeonidis, M. Ruxanda, A. Nanopoulos, Y. Manolopoulos: "Ternary Semantic Analysis of Social Tags for Personalized Music Recommendation", *Proceedings of the 9th Annual Conference on Music Information Retrieval (ISMIR)*, pp.219-224, Philadelphia, 2008
30. P. Symeonidis: "Content-based Dimensionality Reduction for Recommender Systems", *Proceedings of the 31st Annual Conference of the German Classification Society (GfKI)*, Freiburg, Germany, 2007.
31. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: "Feature-weighted User Model for Recommender Systems", *Proceedings of the 11th International Conference on User Modelling (UM)*, Vol.4511, pp.97-106, Corfu, Greece, 2007.
32. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: "Collaborative Filtering: Fallacies and Insights in Measuring Similarity", *Proceedings of the Web Mining Workshop held in conjunction with PKDD/ECML conference*, pp.56-67, Berlin, Germany, 2006.

33. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Nearest-Biclusters Collaborative Filtering”, *Proceedings of the WebKDD Workshop held in conjunction with KDD*, pp.15-25, Philadelphia, PA, 2006.
34. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Collaborative Filtering based on Users Trends”, *Proceedings of the 30th Annual Conference of the German Classification Society (GfKI)*, pp.375-382, Berlin, Germany, 2006.
35. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Collaborative Filtering Process in a Whole New Light”, *Proceedings of the 10th International Symposium on Data Engineering & Applications (IDEAS)*, pp.29-36, Delhi, India, 2006.
36. P. Symeonidis, A. Nanopoulos, A. Papadopoulos, Y. Manolopoulos: “Scalable Collaborative Filtering Based on Latent Semantic Indexing”, *Proceedings of the AAAI Workshop on Intelligent Techniques for Web Personalization (ITWP)*, pp.1-9, Boston, MA, 2006.

JOURNAL AND CONFERENCES QUALITY INDICES OF THE PUBLISHED WORK

P. Symeonidis has published 20 papers in journals and the Table below presents the Impact Factor of the Journal in the year that his paper got accepted from the journal. As shown, there are 13 out the 20 journal papers, with an impact factor more than 1.134.

	Journal Title	Impact Factor
1	IEEE Transactions on Knowledge and Data Engineering (2016)	3.438
3	Expert Systems with Applications (Elsevier) 2008	2.596
2	IEEE Transactions on System, Man and Cybernetics: Part A (2016)	2.350
4	IEEE Transactions on Knowledge and Data Engineering (2010)	1.851
5	Knowledge and Information Systems (Springer) 2015	1.702
6	IEEE Transactions on Speech and Language Processing (2010)	1.668
7	Data Mining and Knowledge Discovery (Springer) 2011	1.545
8	Data and Knowledge Engineering (Elsevier) 2013	1.489
9	World Wide Web Journal (Springer) 2014	1.474
10	World Wide Web Journal (Springer) 2017	1.405
11	Information Retrieval (Springer) 2007	1.396
12	IEEE Transactions on System, Man and Cybernetics: Part A (2008)	1.350
13	Journal of Systems & Software (Elsevier) 2012	1.135
14	International Journal of AI Tools 2015	0.530
15	Social Network Analysis and Mining (Springer) 2013	0.503
16	Engineering Intelligent Systems (CRL)	0.205
17	Expert Systems with Applications (Elsevier) 2019	N/A
18	Intelligent Systems in Accounting, Finance & Management	N/A
19	International Journal of E-politics	N/A
20	International Journal of Social Network Mining	N/A

Moreover, as shown in the Table below, from his 20 journal publications, 9 articles have been published in **Top-ranked** journals, whereas other 6 articles have been published in **Highly-ranked journals** (Source: Italian ANVUR and VQR).

Journal Title	Number of Articles published in the journal by P. Symeonidis	Quality Ranking of the journal (1-top, 2-high, 3-average, 4-low)
World Wide Web Journal (Springer)	2	1
IEEE Transactions on Knowledge and Data Engineering	2	1
IEEE Transactions on System, Man and Cybernetics: Part A	2	1
IEEE Transactions on Speech and Language Processing	1	1
Data Mining and Knowledge Discovery (Springer)	1	1
Journal of Systems & Software (Elsevier)	1	1
Knowledge and Information Systems (Springer)	1	2
Social Network Analysis and Mining (Springer)	1	2
Information Retrieval (Springer)	1	2
Expert Systems with Applications (Elsevier)	2	2
Data and Knowledge Engineering (Elsevier)	1	2
Intelligent Systems in Accounting, Finance & Management	1	3
Engineering Intelligent Systems (CRL)	1	4
International Journal of E-politics	1	4
International Journal of AI Tools	1	4
International Journal of Social Network Mining	1	4
Total	20	

Finally, summarizing the quality of the published work of P. Symeonidis in conferences, as shown in the Table below, he has published 4 papers in **Top-ranked** conferences (acceptance rate $\leq 20\%$) and 8 papers in **Highly-ranked** conferences (acceptance rate $\leq 40\%$), where «acceptance rate» is the ratio of the accepted papers of a conference to the total number of papers that are submitted in a year.

Conference title	Acceptance Ratio
ACM RecSys 2009	19%
ACM RecSys 2010	19%
ACM RecSys 2011	20%
User Modelling 2007	20%
ECML/PKDD 2014	22%
ADBIS 2012	26%
IEEE IDEAS 2006	26%
ADBIS 2013	28%
ACM RecSys 2008	30%
ACM SIGSPATIAL 2011 (LBSN workshop)	38,5%

ACM RecSys 2016 (tutorial presentation)	40%
ACM KDD 2006 (WebKDD workshop)	40%

PRESENTATIONS, TUTORIALS, INVITED LECTURES AND WORKSHOP CO-ORGANIZER

1. Co-chair of the SAC 2019 Technical Track on Recommender Systems : Theory, User Interactions and Applications.
2. Tutorial in WIMS conference 2018. Title: Contextual-Aware Recommender Systems based on Matrix Decompositions and Random Walks on Graphs.
3. Tutorial in ACM Summer School on Recommender Systems from 21/8-25/8 in Bolzano. Title: Matrix and Tensor Factorization Techniques for Recommender Systems.
4. Tutorial in ACM Conference on Recommender Systems in Boston, September 2016. Title: Matrix and Tensor Decompositions for Recommender Systems.
5. GIS and location-based services - 9th workshop "Computer Science Research Meets Business" - 23 Nov 2017. Title: CheckInShop: A Recommender System for Micro-location Services.
6. Professional High School of Bolzano "Landesberufsschule für Handwerk und Industrie" for the "Tag der offenen Tür" (contact person: Kuen, Thomas, informatik)

ENTREPRENEURSHIP & PATENTS

Co-founder of the following start-ups:

- www.moorec.com
This is a website for recommending moocs (massive open online courses) to users based on their CV and their ideal job description.
- www.checkinexpo.com
This is a website for shops to provide "proximity and contextual marketing" to their smart-phone clients inside their physical store by using beacon technology.

Co-creator of the following web systems:

1. <https://cran.r-project.org/web/packages/rrecsys/index.html>
rrecsys is an open source library in R to evaluate several recommendation algorithms using time-dependent and time-independent evaluation protocols.
2. <http://metarec.inf.unibz.it>
A recommender system for graph-based recommendations and meta-path based explanations.
3. <http://jobrec.inf.unibz.it>
A job recommendation system (in greek)

4. <http://adsrec.inf.unibz.it>
A news web site with advertisement recommendations (in greek)
5. <https://skillrec.inf.unibz.it>
A project recommendation website based on the skills of the researchers

COMMUNITY SERVICE

Editorial Board and Committee memberships in journals/conferences:

1. Member of the editorial board of the international journal Information Technology & Tourism (Springer)
2. Senior Program Committee member of the Recommender System (RecSys) conference
3. Member of the Program Committee of the WWW conference, track on User Modelling, Recommendation and Personalization
4. Member of the Program Committee of the ECML PKDD conference
5. Member of the Program Committee of the East-European Conference on Advances in Databases and Information Systems (ADBIS)

Reviewer in journals/conferences

1. European Conference on Machine Learning and Principles & Practice of Knowledge Discovery in Databases (ECML/PKDD)
2. International Conference on Knowledge Discovery from Databases (Workshop on Social Network Analysis - SNAKDD)
3. International Conference on Very Large Data Bases (VLDB)
4. International Conference on Artificial Neural Networks (ICANN)
5. ACM Transactions on Internet Technology (ACM TOIT)
6. ACM Transactions on Intelligent Systems and Technology (ACM TIST)
7. ACM Transactions on the Web (ACM TWEB)
8. The Computer Journal (Oxford Journals)
9. IEEE Transactions on Knowledge Discovery & Engineering (IEEE TKDE)
10. Operational Research: An International Journal
11. IEEE Transactions on System, Man & Cybernetics

LANGUAGES

- **English:** Excellent, C2 Level
- **German:** Advanced, C1 Level
- **Italian:** Fluent, B1 level