

**ΚΑΘΗΓΗΤΡΙΑ ΜΑΡΙΑ ΒΙΡΒΟΥ**  
**ΤΜΗΜΑ ΠΛΗΡΟΦΟΡΙΚΗΣ**  
**ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΙΡΑΙΩΣ**

Η Μαρία Βίρβου είναι Καθηγήτρια και Πρόεδρος του Τμήματος Πληροφορικής Πανεπιστημίου Πειραιώς, Διευθύντρια του Προγράμματος Μεταπτυχιακών Σπουδών στην Πληροφορική, Διευθύντρια του Ερευνητικού εργαστηρίου «Τεχνολογία Λογισμικού». Είναι Editor-in-Chief των σειρών βιβλίων του Springer “Learning and Analytics in Intelligent Systems” και “Artificial Intelligence-Enhanced Software and Systems Engineering”.

Έλαβε Διδακτορικό Δίπλωμα στην Πληροφορική και Τεχνητή Νοημοσύνη από το *University of Sussex* της Μεγάλης Βρετανίας με υποτροφία από το Ίδρυμα Κρατικών Υποτροφιών στην ειδικότητα «*Tεχνητής Νοημοσύνης*». Απέκτησε το Master of Science σε Computer Science από το *University College London* του Πανεπιστημίου του Λονδίνου της Μεγάλης Βρετανίας και πρώτο πτυχίο από το Μαθηματικό Τμήμα του *Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών*.

Επιπλέον, έχει διατελέσει Πρόεδρος του Τμήματος Πληροφορικής του Πανεπιστημίου Πειραιώς για δύο θητείες, καθώς και Διευθύντρια και Ιδρυτικό Μέλος του Προγράμματος Μεταπτυχιακών Σπουδών στην ‘Πληροφορική’. Διετέλεσε πολλές φορές μέλος της Συγκλήτου του Πανεπιστημίου Πειραιώς.

Στον τομέα της επιστημονικής έρευνας, η Καθηγήτρια Μ. Βίρβου έχει συμβάλει με περισσότερες από 400 δημοσιεύσεις, με βιβλία και μονογραφίες και προεδρίες ή προσκεκλημένες ομιλίες και συμμετοχές σε διεθνή συνέδρια και επιμέλειες πρακτικών συνεδρίων και βιβλίων. Μερικές πρόσφατες διακεκριμένες δραστηριότητές της ήταν Γενική συν- Πρόεδρος στο 14th IEEE Intelligent Information Systems and Applications 2023 και Προσκεκλημένη Κεντρική Ομιλήτρια στο 35th IEEE International Conference on Software Engineering Education and Training (CSEE&T 2023), Tokyo, Japan. Επίσης, έχει λάβει αναγνωρίσεις και βραβεία για τη συνεισφορά της στον τομέα της Πληροφορικής.

Τέλος, κατέχει υψηλές θέσεις σε παγκόσμιες κατατάξεις επιστημονικής επίδοσης, ενισχύοντας έτσι το επιστημονικό της κύρος στον ακαδημαϊκό χώρο. Σε μια πρόσφατη αναζήτηση στο Scopus κατατάσσεται πρώτη παγκοσμίως σε δημοσιεύσεις στην περιοχή “User Modelling” από ένα διεθνές σύνολο 147.450 δημοσιεύσεων και πρώτη παγκοσμίως στην περιοχή “Educational Software”.

Η ίδια συγκαταλέγεται μεταξύ των κορυφαίων 2% επιστημόνων Τεχνητής Νοημοσύνης με την μεγαλύτερη επιρροή παγκοσμίως σύμφωνα με την διεθνή κατάταξη του Πανεπιστημίου Stanford.

## **Προσκεκλημένη κεντρική ομιλήτρια**

1. 35th IEEE International Conference on Software Engineering Education and Training (CSEE&T 2023), 8-9 August 2023, Waseda University, Tokyo, Japan.
2. 13<sup>th</sup> IEEE International Conference on Intelligent Information Systems and Applications, IISA 2022, Corfu, Greece.
3. 25<sup>th</sup> International Conference on Knowledge - Based and Intelligent Information and Engineering Systems. KES 2021 Conference, Szczecin, Poland, 8-10 September 2021.
4. 2021 International Conference on Advanced Computing and Intelligent Technologies, March 20-21, 2021, Galgotias University, Delhi India (Springer).
5. 2021 2nd European Symposium on Software Engineering (ESSE 2021), Nov. 6-8, 2021 | Larissa, Greece.
6. IEEE International Conference on Computer, Information and Telecommunication Systems, CITS 2019, Beijing, China, August 28-31, 2019.
7. International Conference On Computing, Power And Communication Technologies 2018 (GUCON) on September 28-29, 2018, Galgotias University, Delhi India, IEEE.
8. ACM ITiCSE 2018, the 23rd Annual Conference on Innovation and Technology in Computer Science Education, Larnaca, Cyprus.
9. 13th China Europe International Symposium on Software Engineering Education, 24-25 May 2017, Athens, Greece.
10. IEEE 27th International Conference on Tools with Artificial Intelligence (ICTAI), 9 - 11 November, 2015, Vietri sul Mare, Italy.
11. 7th International Conference on Intelligent Interactive Multimedia Systems and Services (KES-IIMSS-14) Chania - Crete, Greece 18 - 20 June 2014.
12. IEEE International Conference on Computer, Information and Telecommunication Systems (CITS), May 07 - 08, 2013, Greece.
13. 3IA' 2011, 14th International Conference on Computer Graphics and Artificial Intelligence 2011, Athens (GREECE), 27 - 28 of May, 2011.

**Συν-ιδρύτρια/ Γενική Προεδρία / Προεδρία Επιτροπής Προγράμματος Διεθνών Συνεδρίων**

- 14th International Conference on Information, Intelligence, Systems and Applications, IISA 2023, University of Thessaly, Volos, Greece, 10-12 July 2023, IEEE Computer Society.
- 13th International Conference on Information, Intelligence, Systems and Applications, IISA 2022, Corfu, Greece, 18-20 July 2022, IEEE Computer Society.
- 12th International Conference on Information, Intelligence, Systems and Applications, IISA 2021, July 12 – 14, 2021, Chania Crete, Greece, IEEE Computer Society 2021.
- 14<sup>th</sup> International Joint Conference on Knowledge-Based Software Engineering (JCKBSE 2020), August 22-24, 2022, Larnaca, Cyprus.
- 11th International Conference on Information, Intelligence, Systems and Applications, IISA 2020, 15 – 17 July, 2020, Piraeus, Greece, IEEE Computer Society 2020.
- 13th International Joint Conference on Knowledge-Based Software Engineering (JCKBSE 2020), August 24-26, 2020, Larnaca, Cyprus.
- 10th IEEE International Conference on Information, Intelligence, Systems and Applications, IISA 2019, July 15-17, 2019, Patras, Greece, IEEE Computer Society 2019.
- 12th Joint Conference on Knowledge-Based Software Engineering (JCKBSE 2018) 27-30 August, Corfu, Greece.
- 9th IEEE International Conference on Information, Intelligence, Systems and Applications, IISA 2018, Zakynthos, Greece, July 23-25, 2018. IEEE Computer Society 2018
- 29th IEEE International Conference on Tools with Artificial Intelligence, ICTAI 2017, Boston, MA, USA, November 6-8, 2017. IEEE Computer Society 2017
- 8th IEEE International Conference on Information, Intelligence, Systems & Applications, IISA 2017, Larnaca, Cyprus, August 27-30, 2017. IEEE 2017
- 7th IEEE International Conference on Information, Intelligence, Systems & Applications, IISA 2016, Chalkidiki, Greece, July 13-15, 2016. IEEE 2016
- 6th IEEE International Conference on Information, Intelligence, Systems and Applications, IISA 2015, Corfu, Greece, July 6-8, 2015. IEEE 2015
- 5th IEEE International Conference on Information, Intelligence, Systems and Applications, IISA 2014, Chania, Crete, Greece, July 7-9, 2014. IEEE 2014
- 4th IEEE International Conference on Information, Intelligence, Systems and Applications, IISA 2013, Piraeus, Greece, July 10-12, 2013. IEEE 2013
- 10th IEEE International Conference on Signal Processing and Multimedia Applications and 10th International Conference on Wireless Information Networks and Systems, Reykjavík, Iceland, 29-31 July, 2013.

- 8<sup>th</sup> International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIH-MSP 2012, Piraeus-Athens, Greece, July 18-20, 2012. IEEE 2012
- 10<sup>th</sup> Conference on Knowledge-Based Software Engineering, JCKBSE 2012, Rodos, Greece, August 23-26, 2012.
- International Conference on Signal Processing and Multimedia Applications and International Conference on Wireless Information Networks and Systems, Rome, Italy, 24-27 July, 2012, SIGMAP is part of ICETE - The International Joint Conference on e-Business and Telecommunications.
- 5<sup>th</sup> International Conference on Software and Data Technologies, Athens, Greece, July 22-24, 2010.
- International Conference on Signal Processing and Multimedia Applications, Athens, Greece, July 26-28, 2010, SIGMAP is part of ICETE - The International Joint Conference on e-Business and Telecommunications.
- 8<sup>th</sup> Joint Conference on Knowledge-Based Software Engineering, JCKBSE 2008, August 25-28, 2008, University of Piraeus, Piraeus, Greece.

### **Best Paper Awards**

- 2020: K. Chrysafiadi, S. Papadimitriou and M. Virvou, "Fuzzy states for dynamic adaptation of the plot of an educational game in relation to the learner's progress," 2020 11th International Conference on Information, Intelligence, Systems and Applications (IISA, Piraeus, 2020, pp. 1-7, doi: 10.1109/IISA50023.2020.9284380).
- 2015: M. Virvou, K. Kabassi, E. Alepis, A. Kameas, C. Pierrakeas, A. Theodosiou "Empirical study towards the creation of educational user profiles for the students of an open university" IEEE International Conference on Information, Intelligence, Systems and Applications IISA 2015: 1-5, IEEE Press 2015.
- 2014: A. Psarologou, N. G. Bourbakis, M. Virvou "A mapping mechanism of NL sentences onto an SPN state machine for understanding purposes" IEEE IISA 2014: 321-324.
- 2009: I.-O. Stathopoulou, E. Alepis, G.A. Tsihrintzis and M. Virvou «On Assisting a VisualFacial Affect Recognition System with Keyboard-Stroke Pattern Information»: The Twenty-ninth SGAI International Conference Cambridge, UK, 15th-17th December 2009, BCS SGAI The Specialist Group on Artificial Intelligence.
- 2009: Alepis, E., Virvou, M. & Kabassi, K. (2009) "Knowledge Engineering Aspects of Affective Bi-Modal Educational Applications" In Communications in Computer and Information Science, E-business and Telecommunications, Volume 23
- 2007: Kabassi, K., Virvou, M. & Alepis, E. "Testing the Effectiveness of MBIUI Life-Cycle Framework for the Development of Affective Interfaces" In Communications in Computer and Information Science, Software and Data Technologies, Volume 22, βραβεύθηκε στα Best Papers of ICSOFT 2007.

# SCOPUS

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	Document title	Authors	Source	Year	Citations
1	HiOmics: A cloud-based one-stop platform for the comprehensive analysis of large-scale omics data	Li, W., Zhang, Z., Xie, B., ... Que, T., Hu, Y.	Computational and Structural Biotechnology Journal, 23, pp. 659-668	2024	0
2	Motion Planning for Autonomous Driving with Real Traffic Data Validation	Chu, W., Yang, K., Li, S., Tang, X.	Chinese Journal of Mechanical Engineering	2024	0

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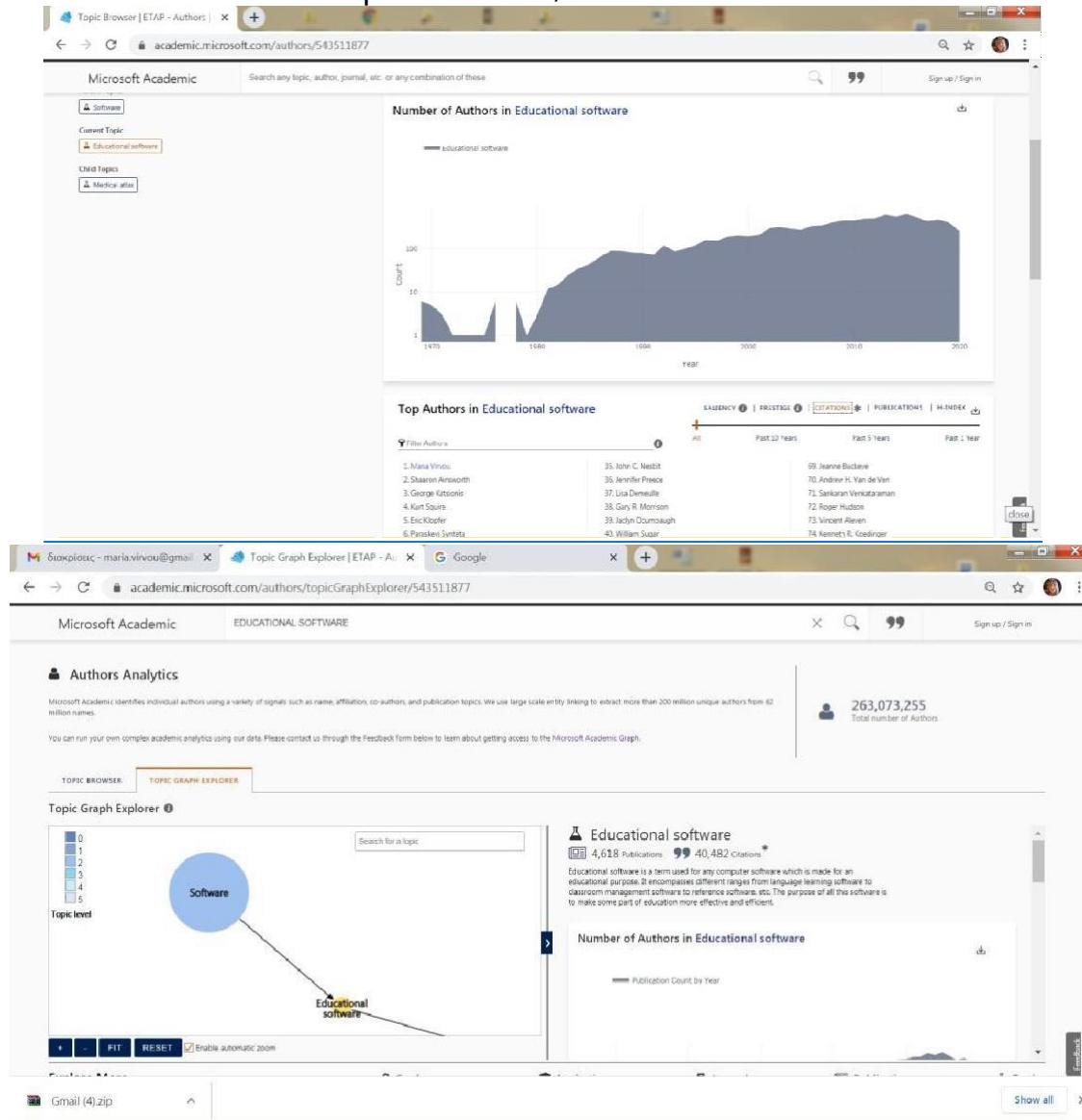
	Document title	Authors	Source	Year	Citations
1	Design, implementation and evaluation of e-learning program for common diseases to smartphone-based medical students: at a developing university	niromand, E., Mansory, M.S., Ramezani, G., Khazaei, M.R.	BMC Medical Education, 24(1), 52	2024	0
2	Effects of educational interventions based on the theory of planned behavior on oral cancer-related knowledge and tobacco	Ghasemian, A., Sargeran, K., Khami, M.R., Shamshiri, A.R.	BMC Cancer, 24(1), 45	2024	0

**Παγκόσμια Κατάταξη της Καθηγήτριας Μαρίας Βίρβου**  
σύμφωνα με Microsoft Academic Search  
που αναλύει 262.751.231 Συγγραφείς και 248.455.650 Δημοσιεύσεις  
<https://academic.microsoft.com/>

**Η Καθηγήτρια Μαρία Βίρβου κατατάσσεται 1<sup>η</sup> στην παγκόσμια κατάταξη ως προς τις ετεροαναφορές και 2<sup>η</sup> ως προς τις δημοσιεύσεις στην περιοχή:**

### **ΕΚΠΑΙΔΕΥΤΙΚΟ ΛΟΓΙΣΜΙΚΟ**

**Microsoft Academic Analytics: EDUCATIONAL SOFTWARE**  
4.627 publications, 40.331 citations



# **1<sup>η</sup> στην παγκόσμια κατάταξη:**

## **ΕΚΠΑΙΔΕΥΤΙΚΑ ΠΑΙΧΝΙΔΙΑ ΕΙΚΟΝΙΚΗΣ ΠΡΑΓΜΑΤΙΚΟΤΗΤΑΣ**

### **(VIRTUAL REALITY EDUCATIONAL GAME)**

The screenshot shows a Microsoft Academic search results page. The search query is "virtual reality educational game". The results are filtered by "2020 citations". The first result is "Iterate user and expert feedback in the design of an educational virtual reality biology game" from 2019, with 11 citations. The second result is "Virtual Reality : A game-changing method for the language sciences" from 2019, with 11 citations. The third result is "Getting your game on: Using virtual reality to improve real table tennis skills" from 2019, with 3 citations. The sidebar on the left lists "Top Authors" including Maria Vavou, Konstantinos Manos, George Katsikas, Lior Dror, Irine Cicalo, Nika Gorj, Domen Nizvac, Maja Gorlic, David Pachter, and Felix Nadel. The sidebar on the right lists "RELATED TOPICS" such as Mathematics education, Simulation, Multimedia, Computer science, and Mathematics.

## **1<sup>η</sup> στην παγκόσμια κατάταξη: ΚΙΝΗΤΑ ΣΥΓΓΡΑΦΙΚΑ ΕΡΓΑΛΕΙΑ**

Mobile Authoring Tools - Search

academic.microsoft.com/search?q=Mobile%20Authoring%20Tools&f=&orderBy=0&skip=0&take=10

Microsoft Academic

Mobile Authoring Tools

Mobile phone  
Mobile technology  
Education technology  
Sustainability  
Poise  
Modern life  
Computer software  
MORE

Publication Types

Conference publications  
Journal publications  
Other  
Repository papers  
Book chapters  
Patents  
Books

Top Authors

Maria Vittori  
Eduardo Alagia  
Jennifer Mankoff  
Surya Sen  
Eric Paulos  
Tero Jokela  
Gary Marsden  
Raymond Mugwanya

Authoring tools for mobile multimedia content

2003 INTERNATIONAL CONFERENCE ON MULTIMEDIA AND FIRO  
T. Jokela / Noia

Mobile search | Mobile Web | View More (9+) ▾

The latest generation of mobile phones comes with a rich set of capabilities for presenting multimedia information and it is expected that the mobile phone will soon be one of the most widespread devices for consuming multimedia content. In this paper, we present an overview of the key opportunities. [View full abstract](#)

Public heritage at scale: Building tools for authoring mobile digital heritage and archaeology experiences

2018 JOURNAL OF COMMUNITY ARCHAEOLOGY & HERITAGE  
Ethan Watell / Michigan State University

Cultural heritage management | Industrial heritage | View More (8+) ▾

ABSTRACT In recent years, mobile technology and augmented reality have provided heritage and archaeology with new public engagement avenues. Despite technical advances and noteworthy projects, there are still critical issues in both the development and application of mobile heritage experiences. [View full abstract](#)

Sensor: evaluating a flexible framework for authoring mobile data-collection tools for citizen science

2013 CONFERENCE ON COMPUTER SUPPORTED COOPERATIVE WORK  
Samsung Kim<sup>1</sup>, Jennifer Mankoff<sup>1</sup>, Eric Paulos<sup>2</sup>  
<sup>1</sup> Carnegie Mellon University, <sup>2</sup> University of California Berkeley

Social computing | Citizen science | View More (5+) ▾

Across IoT and social computing platforms, mobile applications that support citizen science, empowering non-experts to explore, collect, and share data have emerged. While many of these efforts have been successful, it remains difficult to create citizen science applications without extensive programming. [View full abstract](#)

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# 1η στην παγκόσμια κατάταξη: ΣΥΝΑΙΣΘΗΜΑΤΙΚΗ ΥΠΟΛΟΓΙΣΤΙΚΗ ΔΥΟ ΜΕΣΩΝ (BI MODAL AFFECTIVE COMPUTING)

The screenshot shows the Microsoft Academic search results for the query "BI MODAL AFFECTIVE COMPUTING". The results are filtered by topic, showing three main entries:

- Mobile Education: Towards Affective Bi-modal Interaction for Adaptivity** (2009 INTERNATIONAL JOURNAL OF INTERACTIVE MOBILE TECHNOLOGIES (IJIMT))  
Abstract: One important field where mobile technology can make significant contributions is education. However one criticism in mobile education is that students receive impersonal teaching. Affective computing may give a solution to this problem. In this paper we describe an affective bi-modal educational sys... View Full Abstract
- Mobile education: Towards affective bi-modal interaction for adaptivity** (2008 INTERNATIONAL CONFERENCE ON DIGITAL INFORMATION MANAGEMENT)  
Abstract: One important field where mobile technology can make significant contributions is education. However one criticism in mobile education is that students receive impersonal teaching. Affective computing may give a solution to this problem. In this paper we describe an affective bi-modal educational sys... View Full Abstract
- Utilizing Deep Learning Towards Multi-modal Bio-sensing and Vision-based Affective Computing** (2019 IEEE TRANSACTIONS ON AFFECTIVE COMPUTING)  
Abstract: In recent years, the use of bio-sensing signals such as electroencephalogram (EEG), electrocardiogram (ECG) etc. have garnered interest towards applications in affective computing. The parallel trend of deep learning has led to a huge leap in performance towards solving various vision-based research... View Full Abstract

On the right side, there is a sidebar with topics related to Affective computing, such as Affect (psychology), Affective tutoring system, Artificial intelligence, and Cognitive science.

# 1η στην παγκόσμια κατάταξη: ΕΥΦΥΗΣ ΒΟΗΘΕΙΑ (INTELLIGENT HELP)

The screenshot shows the Microsoft Academic Topic Graph Explorer for the topic "INTELLIGENT HELP". The interface includes a graph visualization on the left and a list of top authors on the right.

**Topic Graph Explorer** (Topic level 5):
 

- Search bar: Search for a topic
- Topic level slider: Set to level 5
- Graph nodes: Methods, Software engineering, and others connected by lines.
- Buttons: FIT, RESET, Enable automatic zoom

**Top Authors in Intelligent help** (Year All):
 

Rank	Author	Publications
1.	Maria Virvou	18
2.	Katerina Kabassi	19
3.	Dietmar Dengler	20
4.	John M. Prager	21
5.	Mathias Bauer	22
6.	John M. Carroll	23
7.	Amy Aronson	24
8.	Radboud Windeisen	25
18.	David Lloyd Gardner	35
19.	Colin Tattersall	36
20.	Susanne Biundo	37
21.	Jan Eric Larsson	38
22.	Per Person	39
23.	Adwin Ramachandran	40
24.	Susanne Biundo	41
25.	Jana Koehler	42

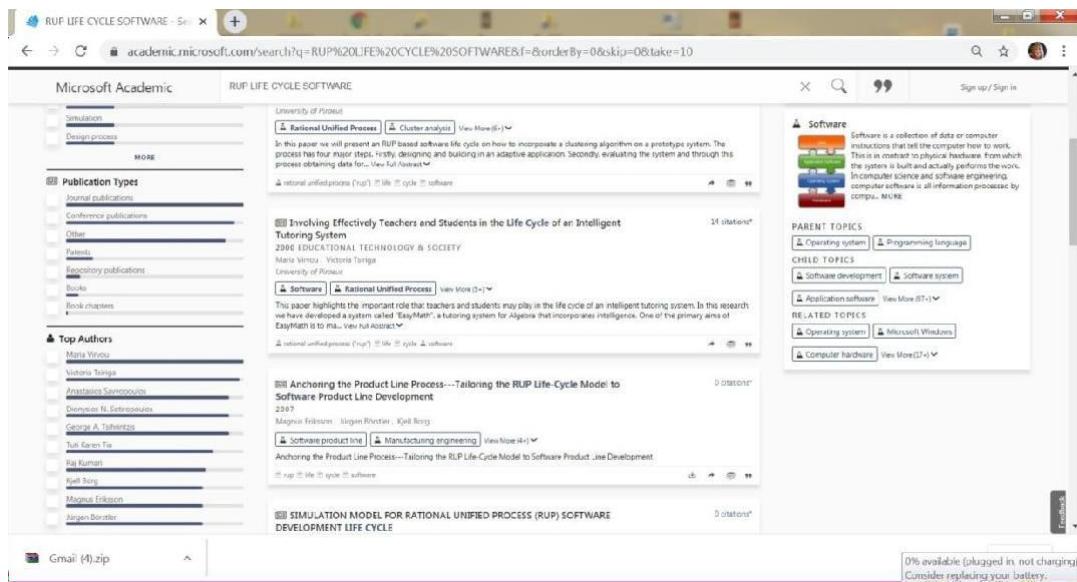
# 1η στην παγκόσμια κατάταξη: ΛΟΓΙΣΜΙΚΟ ΕΚΠΑΙΔΕΥΤΙΚΩΝ ΠΑΙΧΝΙΔΙΩΝ (EDUCATIONAL GAME SOFTWARE)

The screenshot shows the Microsoft Academic search interface. The search query 'educational game software' has been entered. The results page displays several academic papers. One prominent result is 'Combining Software Games with Education: Evaluation of its Educational Effectiveness' by Maria Viriou, George Katsikis, Konstantinos Manos, et al., published in 2005. Another result is 'Empirical evaluation of an educational game on software measurement' by Christiane Gresse Von Wangenheim, Marcello Thiry, Djone Kochanski, et al., published in 2009. The sidebar on the left lists 'Top Topics' such as Educational game, Software, Computer science, Multimedia, etc. The right sidebar provides related topics like Mathematics education, Simulation, Multimedia, and Software.

# 1η στην παγκόσμια κατάταξη: ΠΡΟΣΑΡΜΟΣΤΙΚΗ ΔΙΔΑΣΚΑΛΙΑ (ADAPTIVE TUTORING)

The screenshot shows the Microsoft Academic search interface. The search query 'adaptive tutoring' has been entered. The results page displays several academic papers. One prominent result is 'Prob2Vec: Mathematical Semantic Embedding for Problem Retrieval in Adaptive Tutoring.' by Du Su, Ali Yekkehkhany, Yi Lu, and Wenniao Lu, published in 2020. Another result is 'Learning benefits of structural example-based adaptive tutoring systems' by A. Davidovic, J. Warren, E. Trichina, et al., published in 2003. The sidebar on the left lists 'Top Authors' such as Maria Viriou, Konstantina Chrysfaludi, Ivon Arroyo, Peter Brusilovsky, Minghui Tai, Beverly Park Woolf, Marcus Specht, Gerhard Weber, Robert A. Sottilare, Stefan Kopp, et al. The right sidebar provides related topics like Operating system, Programming language, Software development, Software system, Application software, and Computer hardware.

## 1η στην παγκόσμια κατάταξη: RUP LIFE CYCLE SOFTWARE

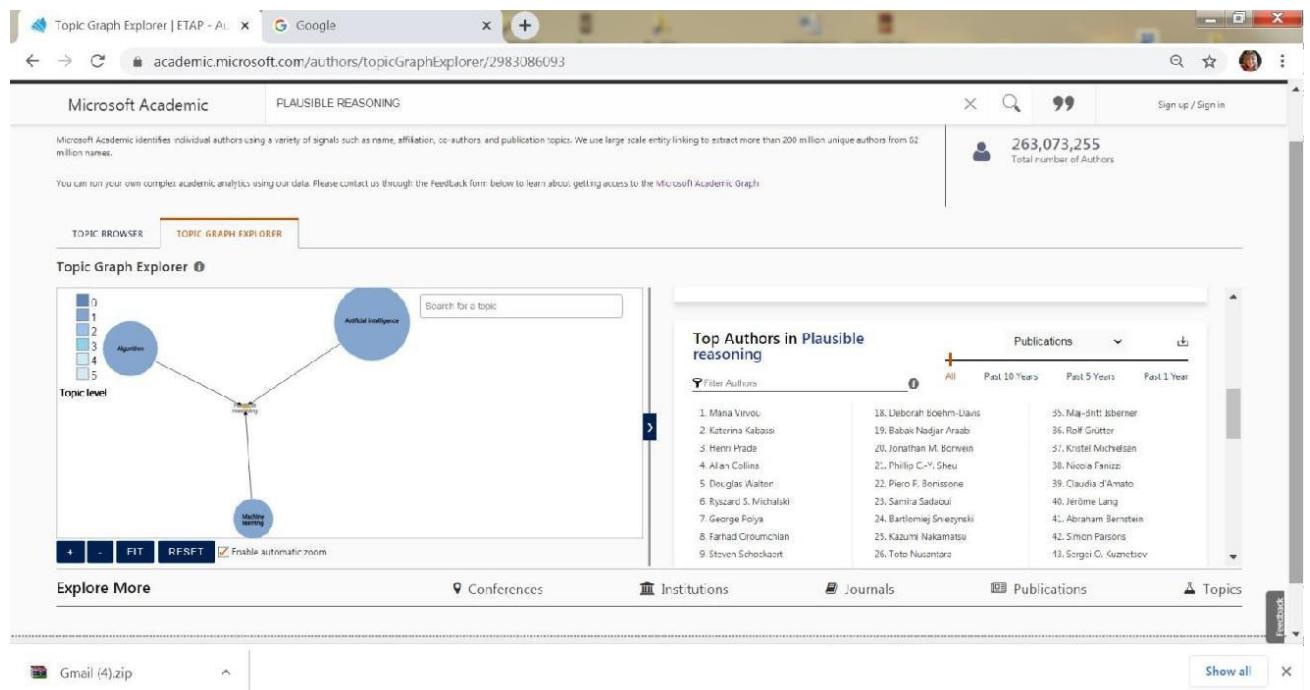


The screenshot shows a Microsoft Academic search results page for the query "RUP LIFE CYCLE SOFTWARE". The results are filtered by publication type, showing three main entries:

- Involving Effectively Teachers and Students in the Life Cycle of an Intelligent Tutoring System** (2000, EDUCATIONAL TECHNOLOGY & SOCIETY) by Maria Virvou, Victoria Tseng, University of Piraeus. It discusses incorporating a clustering algorithm into a prototype system.
- Bill Anchoring the Product Line Process—Tailoring the RUP Life-Cycle Model to Software Product Line Development** (2007) by Magnus Eriksson, Uwe Gomber, Kjell Berg. It highlights the role of teachers and students in the life cycle of an intelligent tutoring system.
- SIMULATION MODEL FOR RATIONAL UNIFIED PROCESS (RUP) SOFTWARE DEVELOPMENT LIFE CYCLE** (2008) by Tuncay Kara, Kadir Kara, Kultay Kara, Magnur Erdogan, Nergiz Erdogan.

The sidebar includes sections for "Top Authors", "Publication Types", and "Software" topics. A "Feedback" button is visible on the right.

## 1η στην παγκόσμια κατάταξη: PLAUSIBLE REASONING



The screenshot shows the Microsoft Academic Topic Graph Explorer for the topic "PLAUSIBLE REASONING". The interface includes a search bar and a graph visualization showing connections between topics like "Algorithm", "Artificial intelligence", "Machine learning", and "Reasoning".

A sidebar displays the "Top Authors in Plausible reasoning" with a list of 50 authors, including Maria Virvou at the top. The list is filtered by publications in the past year.

Below the graph, there are links to explore more topics like Conferences, Institutions, Journals, Publications, and Topics.

## 2<sup>η</sup> στην παγκόσμια κατάταξη: SOFTWARE PERSONALISATION STUDENT MODELING

The screenshot shows the Microsoft Academic search interface. The search query is "student modeling software personalization". The results page displays three academic papers:

- Review: Student modeling approaches: A literature review for the last decade** (2013 EXPERT SYSTEMS WITH APPLICATIONS) by Konstantina Chrysafidi, Maria Viroou, University of Piraeus. It has 281 citations. Tags: Software, Personalization.
- Enhancing Student Learning of Removable Prosthodontics Using the Latest Advancements in Virtual 3D Modeling** (2019 JOURNAL OF PROSTHODONTICS) by Ahmed Mahrous, Galen B. Schneider, University of Iowa. It has 7 citations. Tags: Software, Removable partial denture.
- Student modeling and assessment in intelligent tutoring of software patterns** (2012 EXPERT SYSTEMS WITH APPLICATIONS) by Z. Jeremic, J. Jovanovic, D. Gasevic, University of Belgrade, Athabasca University. It has 102 citations. Tags: Software, Intelligent tutoring system.

On the left sidebar, there are filters for Time (1993-2020), Top Topics (Software, Computer science, Knowledge management, Fuzzy logic, Adaptive learning, Mathematics education, Personalization, Learning styles, Adaptive tutoring, Bayesian network), Publication Types (Journal publications, Other, Conference publications), and Top Authors (Konstantina Chrysafidi, Maria Viroou, Galen B. Schneider). On the right sidebar, there are sections for PARENT TOPICS (Software, Operating system, Programming language, Application software, RELATED TOPICS (Operating system, Microsoft Windows, Computer hardware), and PARENT TOPICS (Personalization, World Wide Web, Marketing, Multimedia, Mass customization, Service customization).

## 2<sup>η</sup> στην παγκόσμια κατάταξη: INTELLIGENT HELP SYSTEM FOR UNIX USERS

The screenshot shows the Microsoft Academic search interface. The search query is "INTELLIGENT HELP SYSTEM FOR UNIX USERS". The results page displays three academic papers:

- Supermarket self-help payment intelligent system based on visual analysis** (2017) by Zhu Ming, Hu Zhengwei. It has 15 citations. Tags: Intelligent help system for unix users, Information extraction.
- Intelligent help system** (1991) by Charles D. Lanier, Richard J. Wolf, Leticia Villegas, AST. It has 398 citations. Tags: Intelligent help system for unix users, Inference engine, Knowledge base.
- Student progress assessment with the help of an intelligent pupil analysis system** (2013 ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE) by Arturas Katalinis, Andrius Vasiliauskas, Vida Raudonienė, Edmundas Kazimieras Zavadskas, Renaldas Gudaitis, see all 11 authors. It has 38 citations. Tags: Intelligent help system for unix users, Inference response, Intelligent decision support system.

On the left sidebar, there are filters for Time (1991), Top Topics (World Wide Web, The Internet, Management system, Software, Download, Modular design, Computer network programming, Architecture), Publication Types (Patents, Journal publications, Conference publications, Other), and Top Authors (Kong Junmin, Maria Viroou, Benedict du Boulay, John A. Jones, Mark Millington, Bahaa Fendes-Maryam, Carmen Fernández-Champú, Alfonso Fernández-Villaverde). On the right sidebar, there are sections for PARENT TOPICS (Software, Unix architecture, Command-line interface, Shell script, RELATED TOPICS (GNULinux, Microsoft Windows, Operating system), and Topics with similar name (Intelligent help)).

## 2<sup>η</sup> στην παγκόσμια κατάταξη: KNOWLEDGE ENGINEERING AFFECTIVE SYSTEMS

The screenshot shows a Microsoft Academic search results page. The query is 'KNOWLEDGE ENGINEERING AFFECTIVE SYSTEMS'. The results are filtered by 'Affect (psychology)' and 'Knowledge engineering'. One result is highlighted: 'KNOWLEDGE ENGINEERING FOR AFFECTIVE BI-MODAL HUMAN-COMPUTER INTERACTION' (2009). The page includes sections for 'PAPERS', 'TOPICS', and 'CITATIONS'.

## 3<sup>η</sup> στην παγκόσμια κατάταξη: VISUAL AND AUDIO EMOTION RECOGNITION

The screenshot shows a Microsoft Academic search results page. The query is 'visual and audio lingual emotion'. The results are filtered by 'visual', 'audio', 'lingual', 'emotion', and 'recognition'. Two results are shown: 'On Improving Visual-Facial Emotion Recognition with Audio-lingual and Keyboard Stroke Pattern Information' (2008) and 'On the Use of Multi-attribute Decision Making for Combining Audio-Lingual and Visual-Facial Modalities in Emotion Recognition'.

## 4<sup>η</sup> στην παγκόσμια κατάταξη: UML INTELLIGENT COLLABORATIVE LEARNING

The screenshot shows a Microsoft Academic search results page. The query is 'UML INTELLIGENT COLLABORATIVE LEARNING'. The results are filtered by 'COLLECT-IML', 'Collaborative learning', and 'Domain knowledge'. Two results are shown: 'COLLECT-IML: Supporting individual and collaborative learning of UML class diagrams in a constraint-based intelligent tutoring system' (2003) and 'An intelligent recommender system for trainers and trainees in a collaborative learning environment for UML' (2012).

## 5η στην παγκόσμια κατάταξη:

### USER MODELING

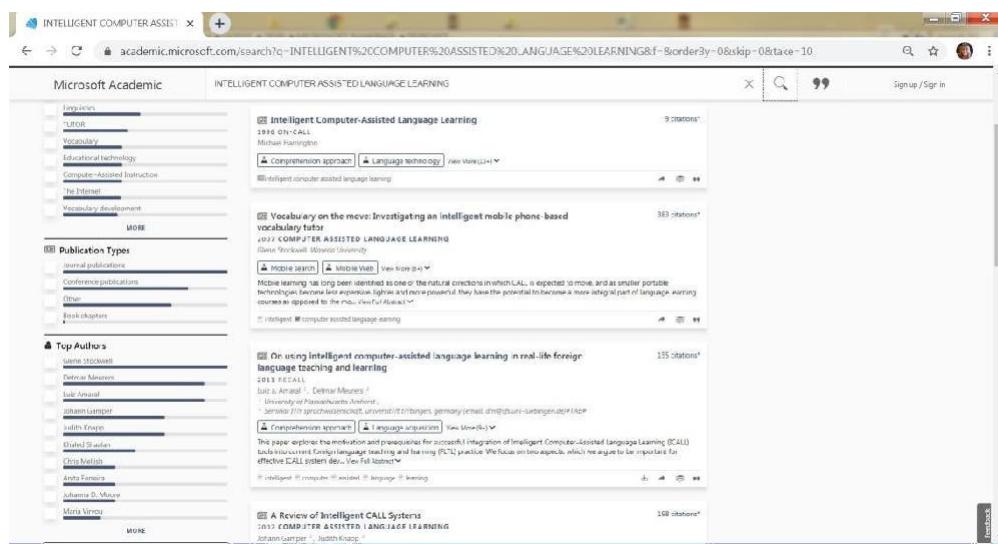
Microsoft Academic Analytics: USER MODELING  
12.996 publications, 361.740 citations

The screenshot shows the Microsoft Academic Topic Graph Explorer interface for the topic "User modeling". The main feature is a network graph where "User modeling" is the central node, connected to "Adaptive hyperNet" and "Computer user...". Other nodes like "User interface" are shown but not directly connected. A legend on the left indicates "Topic level" from 0 to 5. To the right of the graph is a bar chart showing the publication count by year from 1900 to 2020, with a significant peak around 2000. Below the graph is a table titled "Top Authors in User modeling" listing 40 authors with their publications and citations.

Rank	Author	Publications	Citations
1	Peter Brusilovsky	18	263,073,255
2	Judy Kay	19	361,740
3	Alfred Kobsa	20	30
4	Federica Cena	21	28
5	Maria Virvou	22	25
6	Geert-Jan Houben	23	24
7	Cecile Paris	35	23
8	Constantine Stephanidis	36	22
9	Bob Kummerfeld	37	21
10	Fabian Abel	38	20
11	Pradipita Biswas	39	19
12	Natalia Stash	40	18
13	Marko Tkalcic		
14	Jesus G. Boticario		
15	George Samaras		

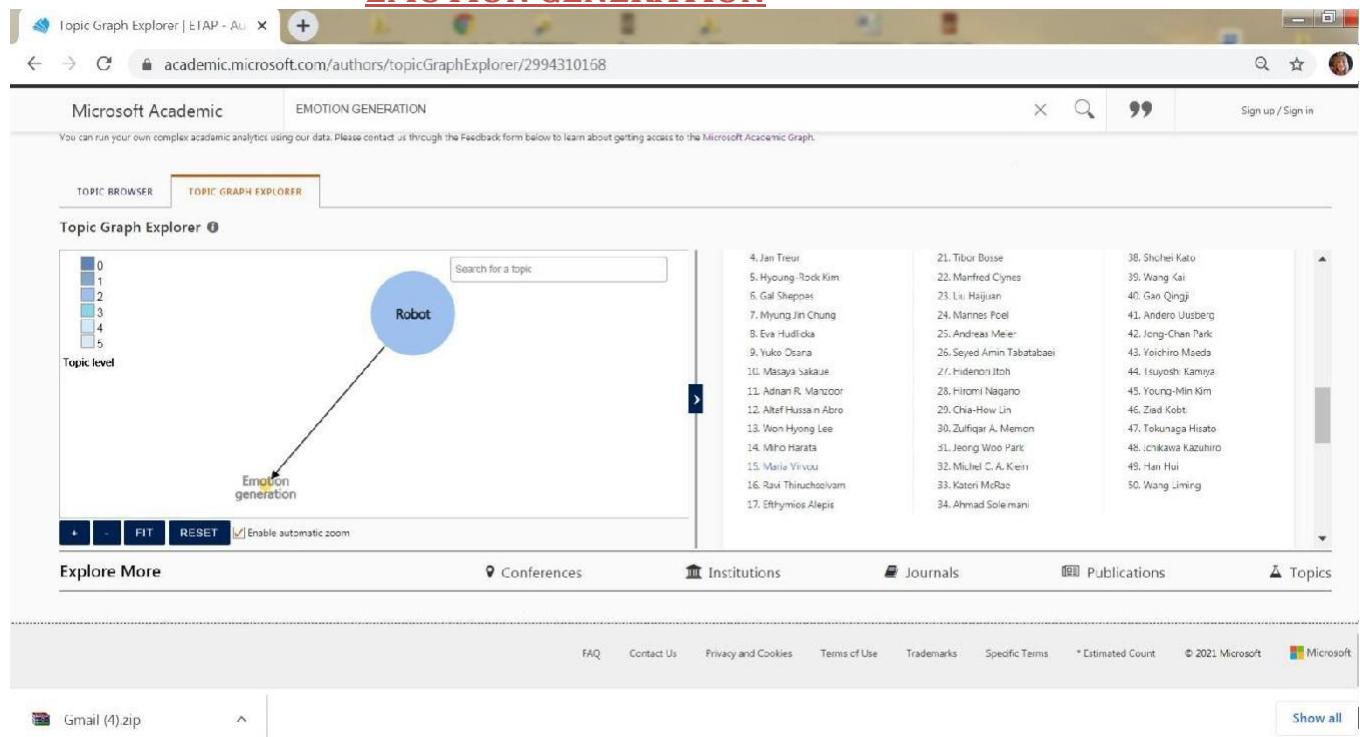
This screenshot shows a different view of the Microsoft Academic Topic Graph Explorer for "User modeling". It features a smaller network graph and a larger, more detailed section on the right. This section includes a detailed description of "User modeling" as a subdomain of human-computer interaction, mentioning its goal of personalization and adaptation. Below this is a chart titled "Number of Authors in User modeling" showing a distribution of authors over time, with a prominent peak in the late 20th century.

## 10η στην παγκόσμια κατάταξη: INTELLIGENT COMPUTER ASSISTED LANGUAGE LEARNING (ICALL)



The screenshot shows a Microsoft Academic search results page for the query "INTELLIGENT COMPUTER ASSISTED LANGUAGE LEARNING". The results are displayed in a grid format. The first result is a paper by Michael Harrington titled "Intelligent Computer-Assisted Language Learning", which has 9 citations. The second result is a paper by Jutta Arzallus and Gertrude Moosig titled "On using Intelligent computer-assisted language learning in real-life foreign language teaching and learning", which has 155 citations. The third result is a paper by Jochen Garper and Judith Koenig titled "A Review of Intelligent CALL Systems", which has 158 citations.

## 15η στην παγκόσμια κατάταξη: EMOTION GENERATION

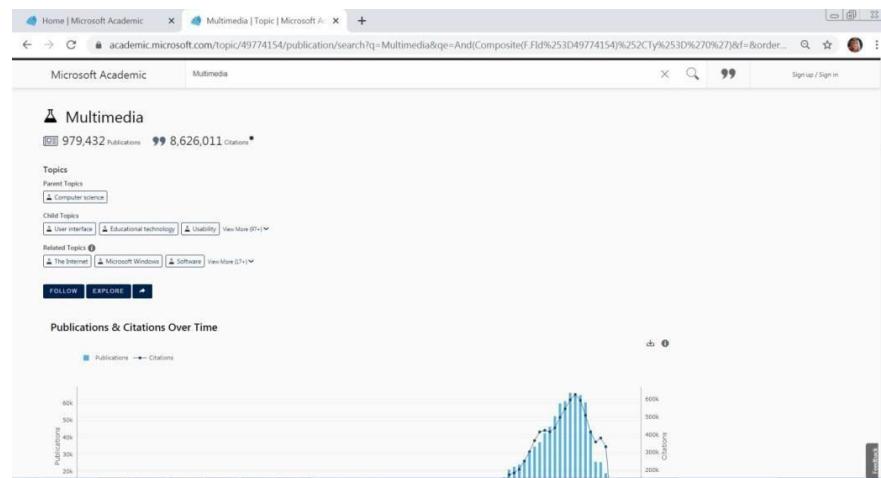
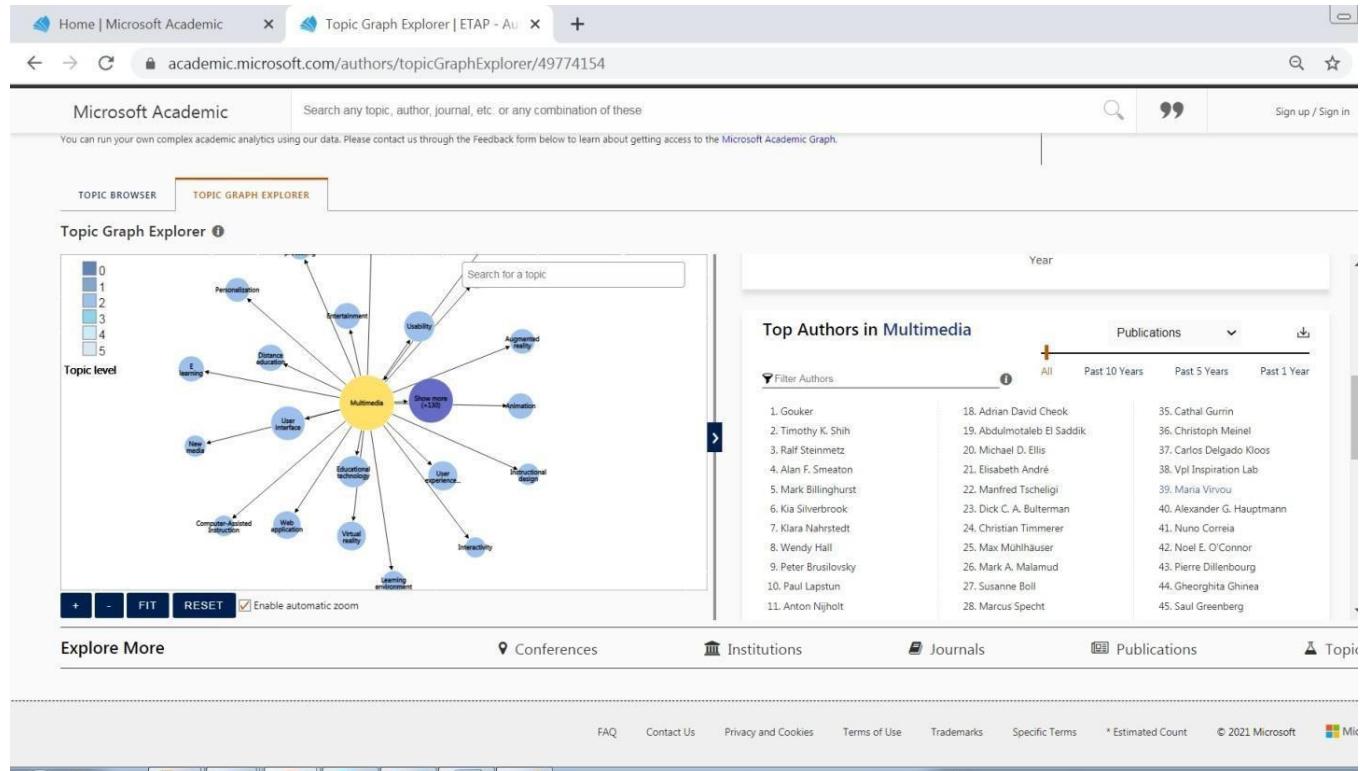


The screenshot shows the Microsoft Academic Topic Graph Explorer for the topic "EMOTION GENERATION". The interface includes a "Topic Browser" tab and a "Topic Graph Explorer" tab. The graph visualization features a central node labeled "Robot" connected to a node labeled "Emotion generation". A legend indicates "Topic level" with color-coded boxes for levels 0, 1, 2, 3, 4, and 5. A search bar at the top right says "Search for a topic". On the right side, a list of 50 authors is shown, each with their name and a small profile picture. The authors include Jan Treur, Hyoung-Rock Kim, Gal Sheposh, Myung Jin Chung, Eva Hudlicka, Yuko Osana, Masaya Sakaiue, Adnan R. Manzoor, Alif Hussian Abro, Won Hyong Lee, Miho Harata, Maria Yiviou, Ravi Thincholvelam, Eftymios Alepis, Tibor Bosse, Manfred Cynys, Li Hajian, Marnes Pecl, Andreas Meier, Seyed Amin Tabatabaei, Hidenori Itoh, Hiromi Nagano, Chia-How Lin, Zulfiqar A. Memon, Jeong Woo Park, Michael C. A. Klein, Kateri McRae, Ahmad Solemani, Shieki Kato, Wang Kai, Gan Qingji, Andro Jusberg, Jong-Chan Park, Yoichiro Maeda, Iusyoshi Kamoya, Young-Hyun Kim, Ziad Kebt, Tokunaga Hisato, Ichikawa Kazuhiro, Han Hui, and Wang Jinxing. Below the graph, there are tabs for "Explore More", "Conferences", "Institutions", "Journals", "Publications", and "Topics". At the bottom, there are links for "FAQ", "Contact Us", "Privacy and Cookies", "Terms of Use", "Trademarks", "Specific Terms", and "Estimated Count". The Microsoft logo is in the bottom right corner.

**Η ΚΑΘΗΓΗΤΡΙΑ ΜΑΡΙΑ ΒΙΡΒΟΥ ΣΥΓΚΑΤΑΛΕΓΕΤΑΙ  
ΣΤΟΥΣ ΚΟΡΥΦΑΙΟΥΣ 40 ΕΡΕΥΝΗΤΕΣ ΣΤΗΝ ΠΑΓΚΟΣΜΙΑ ΚΑΤΑΤΑΞΗ  
ΓΙΑ ΟΛΟΚΛΗΡΗ ΤΗΝ ΠΕΡΙΟΧΗ ΤΗΣ ΠΛΗΡΟΦΟΡΙΚΗΣ:**

**ΠΟΛΥΜΕΣΑ (MULTIMEDIA)**

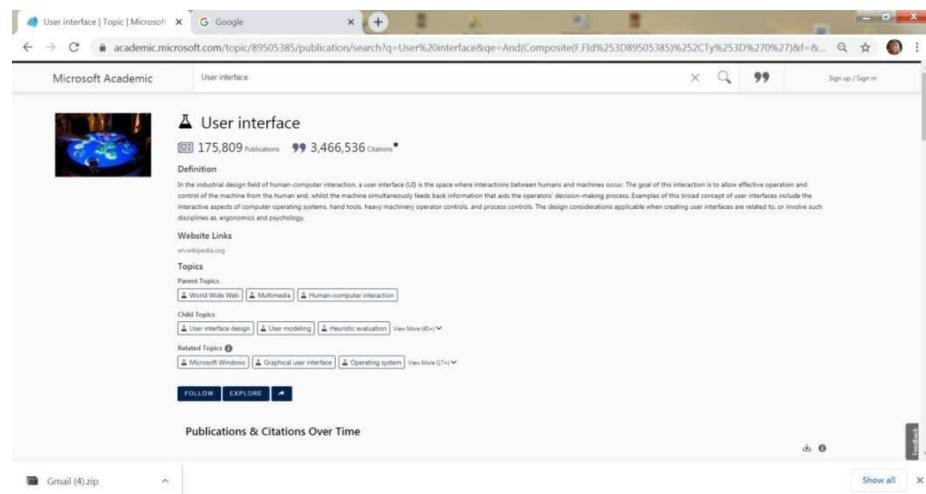
Microsoft Academic Analytics: MULTIMEDIA  
979.432 publications, 8.626.011 citations, 1.600.000 authors  
**#39** on Top Authors @ Publications' List over all years



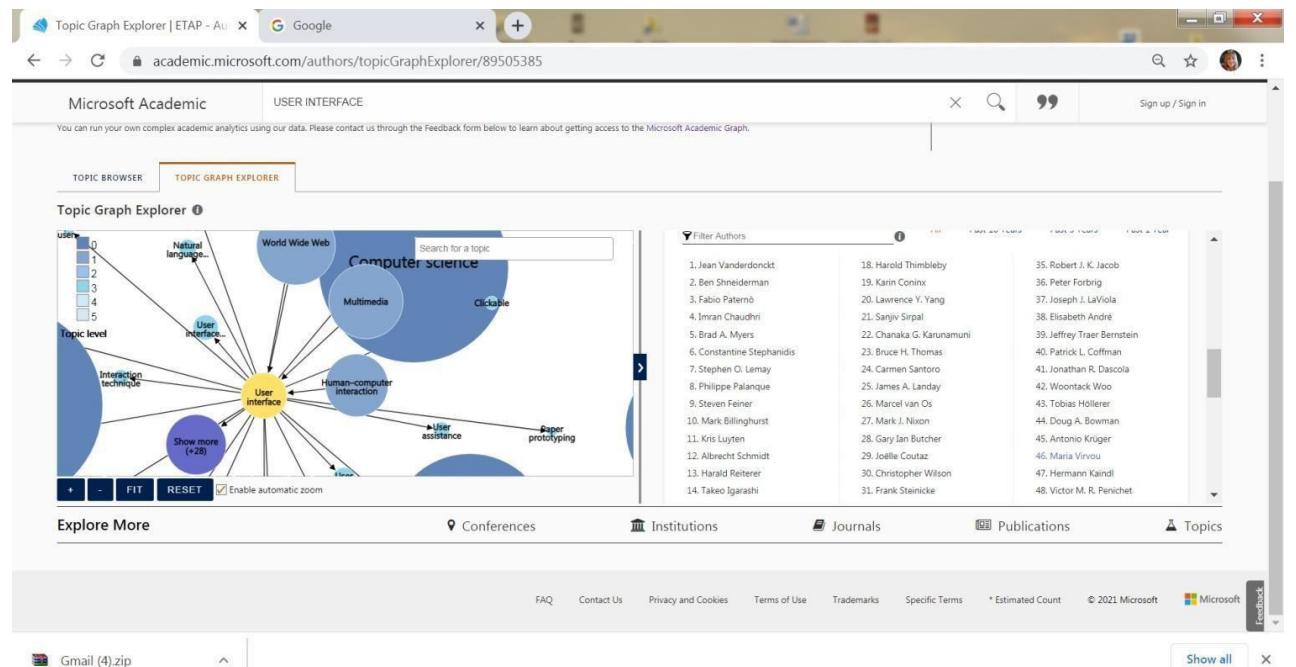
Η ΚΑΘΗΓΗΤΡΙΑ ΜΑΡΙΑ ΒΙΡΒΟΥ ΣΥΓΚΑΤΑΛΕΓΕΤΑΙ  
ΣΤΟΥΣ ΚΟΡΥΦΑΙΟΥΣ 50 ΕΡΕΥΝΗΤΕΣ ΣΤΗΝ ΠΑΓΚΟΣΜΙΑ ΚΑΤΑΤΑΞΗ  
ΓΙΑ ΟΛΟΚΛΗΡΗ ΤΗΝ ΠΕΡΙΟΧΗ ΤΗΣ ΠΛΗΡΟΦΟΡΙΚΗΣ:

## USER INTERFACE

Microsoft Academic Analytics: USER INTERFACE  
176.156 publications, 3.462.738 citations  
#46 on Top Authors @ "Publications' List over all years



This screenshot shows the Microsoft Academic Topic page for 'User interface'. The main title 'User interface' is displayed with a small icon. Below it, the statistics '175,809 Publications' and '3,466,536 citations' are shown. A detailed definition of 'User interface' is provided, explaining it as the space where interactions between humans and machines occur. The page also lists 'Website Links' (including mscipedia.org), 'Topics' (such as World Wide Web, Multimedia, Human-computer interaction, User interface design, User modeling, Heuristic evaluations, Microsoft Windows, Graphical user interface, Operating systems), and 'Related Topics' (such as Interaction technique, Natural language processing, Clickable, Human-computer interaction, User assistance, Paper prototyping). At the bottom, there are 'FOLLOW', 'EXPLORE', and a 'Publications & Citations Over Time' section.



This screenshot shows the Microsoft Academic Topic Graph Explorer for 'User interface'. The interface features a central 'User interface' node connected to various other topics like 'World Wide Web', 'Computer science', 'Multimedia', 'Clickable', 'Human-computer interaction', 'User assistance', and 'Paper prototyping'. On the left, a 'Topic level' scale from 0 to 5 is shown, with 'User interface' at level 5. A 'Topic Graph Explorer' sidebar includes buttons for '+', '−', 'FIT', 'RESET', and 'Enable automatic zoom'. To the right, a 'Filter Authors' table lists 48 authors, each with a name and a small profile picture. At the bottom, there are links for 'Explore More', 'Conferences', 'Institutions', 'Journals', 'Publications', and 'Topics'.

**Η ΚΑΘΗΓΗΤΡΙΑ ΜΑΡΙΑ ΒΙΡΒΟΥ ΣΥΓΚΑΤΑΛΕΓΕΤΑΙ**  
**ΣΤΟΥΣ ΚΟΡΥΦΑΙΟΥΣ 65 ΕΡΕΥΝΗΤΕΣ ΣΤΗΝ ΠΑΓΚΟΣΜΙΑ ΚΑΤΑΤΑΞΗ**  
**ΓΙΑ ΟΛΟΚΛΗΡΗ ΤΗΝ ΠΕΡΙΟΧΗ ΤΗΣ ΠΛΗΡΟΦΟΡΙΚΗΣ:**  
**ΑΛΛΗΛΕΠΙΔΡΑΣΗ ΑΝΘΡΩΠΟΥ-ΥΠΟΛΟΓΙΣΤΗ**  
**(HUMAN COMPUTER INTERACTION)**

Microsoft Academic Analytics: HUMAN COMPUTER INTERACTION  
538.396 publications, 6.497.244 citations  
#63 on Top Authors @ "Publications' List over all years

