

*PhD (CompEng), MEng (Comp), BEng/MEng(Electr), CEng, IEEE SM*

## Professor,

Director of **SMILE** (Smart Mobile Interactive Learning Environments) lab, <https://smile.uom.gr>

Director of **CONTA** (Computer Networks & Telematics Applications) lab, <http://conta.uom.gr>

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## EDUCATION

1990 ***Ph.D. in Computer Engineering***, University of Southern California, Los Angeles,

1987 ***M.Sc. in Computer Engineering***, University of Southern California, Los Angeles,

1984 ***Diploma/M.Sc. in Electrical- Computer Engineering***, Aristotelian University of Thessaloniki.

## RESEARCH INTERESTS

- *Blended/ Online/ Mobile Education (Teaching, Learning & Assessment).*
- *AI-supported Education (Teaching, Learning & Assessment).*
- *Digital Skills & Competences.*
- *Open Education, MOOCs, OERs, and OEPs.*
- *Mobile User Experience of Smart Internet of Things (IoT) Applications.*
- *Mobile Augmented & Mixed Reality Applications and Metaverse.*
- *Mobile Tourism & Culture Applications.*
- *AI-supported Marketing, Mobile & Social Media Marketing.*
- *AI-supported Routing and Control of Wireless & Mobile Networks.*

## RESEARCH IMPACT (over 8 000 CITATIONS)

**World's Top 2% scientists, Stanford University (every year since the beginning of the list, 2019-2023):**

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/1/>

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/2/>

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3/>

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4/>

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/5/>

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6/>

**Rank #5** among Social Science & Humanities researchers in Greece:

<https://research.com/u/anastasios-a-economi>

<https://research.com/scientists-rankings/social-sciences-and-humanities/gr>

**Rank #1** among professors and researchers of the University of Macedonia, Greece

[https://scholar.google.com/citations?view\\_op=view\\_org&hl=en&org=1589167087620552578](https://scholar.google.com/citations?view_op=view_org&hl=en&org=1589167087620552578)

<https://www.adscientificindex.com/scientist/anastasios-a-economides/1838697>

**Scholar Google (2023):** Citations= 9600+      h-index= 50      i10-index= 151

<https://scholar.google.com/citations?user=IAAOD6YAAAAJ>

**Scopus (2023):**              Citations: 4200+              h-index=32

<https://www.scopus.com/authid/detail.uri?authorId=7004508496>

**Research Gate (2023):** Citations: 7000+              h-index=42

[https://www.researchgate.net/profile/Anastasios\\_Economides/stats](https://www.researchgate.net/profile/Anastasios_Economides/stats)

*Higher than 98% of researchers on ResearchGate,*

*Higher than 99% of researchers in: Educational Technology,*

*Higher than 99% of researchers in: Educational Assessment,*

*Higher than 98% of researchers in: Human Computer Interaction,*

*Higher than 98% of researchers in: Information Systems*

## PROFESSIONAL ACTIVITIES

Present: Professor, [University of Macedonia](#).

2015 Visiting Professor, [University Pompeu Fabra](#).

2014 Visiting Professor, [Open University of Catalonia](#).

2011 Professor, [University of Macedonia](#).

2006 Associate Professor, [University of Macedonia](#).

1999 Tenured Assistant Professor, [University of Macedonia](#).

1998 Visiting Professor, [University of Southern California](#).

- 1997 Visiting Professor, [Technical University of Denmark](#).
- 1997 Visiting Professor, [University of Helsinki](#).
- 1997 Visiting Professor, [Helsinki University of Technology](#).
- 1996 Assistant Professor, [University of Macedonia](#).
- 1993 Lecturer, [University of Macedonia](#).
- 1992 Professor, IAS College, Thessaloniki
- 1991 Computer Programmer, Military Service.
- 1986 Research Fellow, [University of Southern California](#), Los Angeles. (1986-90)
- 1985 Database Manager, [University of Southern California](#), Los Angeles.
- 1985 Teaching Assistant, [University of Southern California](#), Los Angeles.
- 1984 Electrical Engineer, [Greek Technical Chamber member](#) (since 1984).

## PUBLICATIONS

### BOOKS

1. Economides, A.A., Karatzoglou V. & Xatzidaki, Th. (2019). *Excel Use and Applications in Economics and Management. It covers versions 2007 to 2016 of Excel, Google Sheets and Excel Online*. Klidarithmos Publications. 2<sup>nd</sup> edition, ISBN 978-960-461-886-6. (1<sup>st</sup> ed, 2011, ISBN 978-960-461-438-7).
2. Georgiadou E., Triantafyllou E. & Economides, A.A. (2010). *E- Economy, E-Commerce, E-Marketing, E-Governance*. Publishers: Tziola & Sons. ISBN 978-960-418-242-8.

### THESES

1. Economides, A. A.. (1990). *A unified game-theoretic methodology for the joint load sharing, routing and congestion control problem*. Ph.D. Dissertation in Computer Engineering, pp. 1 - 538, University of Southern California, Los Angeles, USA.
2. Economides, A. A. (1984). *Interfacing and communication of a data acquisition system with a microcomputer*. Diploma/M.Sc.Thesis, pp. 1- 215, Aristotle University of Thessaloniki.

### JOURNAL PAPERS

1. Kampitaki, D. & Economides, A. A. (2023). Selfishness in mobile ad-hoc networks: a literature review on detection techniques and prevention mechanisms, *IEEE Access*, 11, pp. 86895-86909, <https://doi.org/10.1109/ACCESS.2023.3305262>

2. Mikroyannidis, A., Perifanou, M., & Economides, A.A. (2023). Developing a sustainable online platform for language learning across Europe. *Computers*, 12 (7), 140. <https://doi.org/10.3390/computers12070140>
3. Nikou, S. A., Perifanou, M., & Economides, A. A. (2023). Development and validation of the teachers' augmented reality competences (TARC) scale. *Journal of Computers in Education*. <https://doi.org/10.1007/s40692-023-00288-6>
4. Perifanou, M., Economides, A. A., & Nikou, S. A. (2023). Teachers' views on integrating augmented reality in education: Needs, opportunities, challenges, and recommendations, *Future Internet*, 15(1), 20. <https://doi.org/10.3390/fi15010020>
5. Tzafilkou, K., Panavou, F.R., & Economides, A. A. (2023). Food-evoked emotions and purchase intention in mobile watched YouTube chocolate campaigns: an application of FaceReader online and self-measurement methods, *International Journal of Electronic Marketing and Retailing*. <https://doi.org/10.1504/IJEMR.2023.10054639>
6. Tzafilkou, K., Economides, A. A. & Panavou, F.R. (2023). You look like you'll buy it! Purchase intent prediction based on facially detected emotions in social media campaigns for food products, *Computers*, 12(4), 88. <https://doi.org/10.3390/computers12040088>
7. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2023). Assessing teachers' digital competence in primary and secondary education: Applying a new instrument to integrate pedagogical and professional elements for digital education, *Education and Information Technologies*, <https://doi.org/10.1007/s10639-023-11848-9>
8. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2023). Factors affecting teachers' transfer of ICT training: Considering usefulness and satisfaction in a PLS-SEM transfer training model, *Journal of Adult & Continuing Education*, 29(1), pp. 86-105. <https://doi.org/10.1177/14779714221096500>
9. Paktiti, M., & Economides, A. A. (2023). Smart contract applications in tourism, *International Journal of Technology Management & Sustainable Development*, 22 (2), 165-184. [https://doi.org/10.1386/tmsd\\_00074\\_1](https://doi.org/10.1386/tmsd_00074_1)
10. Perifanou, M., Tzafilkou, K., & Economides, A. A. (2023). Teachers' intention to transfer their ICT training on integrating digital technologies in education: a teachers' transfer of ICT training model (TeTra-ICT), *European Journal of Education*, 58(1), pp. 111-129. <https://doi.org/10.1111/ejed.12534>

11. Perifanou, M. & Economides, A. A. (2023). Measuring quality, popularity, demand and usage of repositories of open educational resources (ROER): a study on thirteen popular ROER. *Open Learning: The Journal of Open and Distance Learning*, 38(4), 315-330. <https://doi.org/10.1080/02680513.2022.2033114>
12. Perifanou, M. & Economides, A. A. (2023). Analyzing repositories of OER using web analytics and accessibility tools. *Universal Access in the Information Society*, 22, 1243-1257. <https://doi.org/10.1007/s10209-022-00907-6>
13. Perifanou, M. & Economides, A. A. (2022). The landscape of MOOC platforms worldwide. *International Review of Research in Open and Distributed Learning*. 23(3), pp. 104-133. <https://doi.org/10.19173/irrodl.v23i3.6294>
14. Boikou, A., Economides, A.A., & Nikou, S. (2022). Business simulation games: Impact on SOLO taxonomy learning outcomes, learning performance and teamwork competency, *Interaction Design and Architecture (IxD&A) Journal*, No 53, pp. 161-175. <https://doi.org/10.55612/s-5002-053-008>
15. Perifanou, M., Economides, A. A., & Tzafilkou, K. (2022). Greek teachers' difficulties & opportunities in emergency distance teaching, *E-Learning and Digital Media*, 19(4), 361-379. <https://doi.org/10.1177/20427530221092854>
16. Perifanou, M., & Economides, A. A. (2022). Digital competencies for online teachers, *Journal of Educators Online*. 19(3). <https://doi.org/10.9743/JEO.2022.19.3.13>
17. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2022). STEM distance teaching: Investigating STEM teachers' attitudes, barriers, and training needs, *Education Sciences*, 12(11), 790. <https://doi.org/10.3390/educsci12110790>
18. Vlachos, A., Perifanou, M., & Economides, A. A. (2022). A review of ontologies for cultural heritage augmented reality applications, *Journal of Cultural Heritage Management and Sustainable Development*. <https://doi.org/10.1108/JCHMSD-06-2021-0110>
19. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2022). Development and validation of students' digital competence scale (SDiCoS), *International Journal of Educational Technology in Higher Education (ETHE)*, 19, 30. <https://doi.org/10.1186/s41239-022-00330-0>
20. Kakamoukas G. A., Sarigiannidis, P. G., & Economides, A. A. (2022). FANETs in agriculture - A routing protocol survey, *Internet of Things*, Vol. 18. <https://doi.org/10.1016/j.iot.2020.100183>

21. Pliatsikas, P., & Economides, A. A. (2022). Factors Influencing Intention of Greek Consumers to Use Smart Home Technology. *Applied System Innovation. Section: Information Systems*, 5(1), 26. <https://doi.org/10.3390/asi5010026>
22. Tzafilkou, K., Economides, A. A., & Protogeris, N. (2022). Mobile sensing for emotion recognition in smartphones: a literature review on non-intrusive methodologies, *International Journal of Human-Computer Interaction*, 38(11), pp. 1037-1051. <https://doi.org/10.1080/10447318.2021.1979290>
23. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2022). Socio-emotional characteristics of emergency distance teaching: a mixed method investigation in Greece, *Journal of Information Technology Education: Research (JITE: Research)*, Vol. 21, pp. 53-73. <https://doi.org/10.28945/4918>
24. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2021). Negative emotions, cognitive load, acceptance, and self-perceived learning outcome in emergency remote education during COVID-19, *Education and Information Technologies*, 26(6), 7497-7521, <https://doi.org/10.1007/s10639-021-10604-1>
25. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2021). Development and validation of a students' remote learning attitude scale (RLAS) in higher education, *Education and Information Technologies*, 26(6), 7279-7305, <https://doi.org/10.1007/s10639-021-10586-0>
26. Nikou, A. S., & Economides, A.A. (2021). A framework for mobile-assisted formative assessment to promote students' self-determination. *Future Internet*, 13(5), 116. <https://doi.org/10.3390/fi13050116>
27. Perifanou, M., Tzafilkou, K., & Economides, A. A. (2021). The role of Instagram, Facebook, and YouTube frequency of use in university students' digital skills components. *Education Sciences*, 11(12), 766. <https://doi.org/10.3390/educsci11120766>
28. Perifanou, M., Economides, A. A., & Tzafilkou, K. (2021). Teachers' digital skills readiness during COVID-19 pandemic. *International Journal of Emerging Technologies in Learning (iJET)*, 16(8), 238-251. <https://doi.org/10.3991/ijet.v16i08.21011>
29. Tzafilkou, K., Perifanou, M., & Economides, A. A. (2021). Teachers' trainers' intention and motivation to transfer ICT training: the role of ICT individual factors, gender, and ICT self-efficacy, *Education and Information Technologies*, 26(5), pp. 5563-5589. <https://doi.org/10.1007/s10639-021-10541-z>

30. Papamitsiou, Z., & Economides, A. A. (2021). The impact of on-demand metacognitive help on effortful behaviour: a longitudinal study using task-related visual analytics. *Journal of Computer Assisted Learning*, 37(1), pp. 109-126. <https://doi.org/10.1111/jcal.12472>
31. Papamitsiou, Z., & Economides, A. A. (2020). Motivating students in collaborative activities with game-theoretic group recommendations. *IEEE Transactions on Learning Technologies*, 13(2), pp. 374-386. <https://doi.org/10.1109/TLT.2018.2869582>
32. Pammer-Schindler, V., Wild, F., Fominykh, M., Ley, T., Perifanou, M., Soule, M.V., Hernández-Leo, D., Kalz, M., Klamma, R., Pedro, L., Santos, C., Glahn, C., Economides, A.A., Parmaxi, A., Prasolova-Forland, E., Gillet, D., & Maillet, K. (2020). Interdisciplinary doctoral training in technology-enhanced learning in Europe, *Frontiers in Education, section Educational Psychology*, Vol. 5, No. 150. <https://doi.org/10.3389/feduc.2020.00150>
33. Perifanou, M., & Economides, A. A. (2020). Gender equality policies and initiatives for STEM skills in Greece, *International Journal of Social Policy & Education (IJSPE)*, 2(10), ISSN 2689-4998 (print), 2689-5013 (online).
34. Perifanou, M., & Economides, A. A. (2020). Gender digital divide in Europe, *International Journal of Business, Humanities and Technology (IJBHT)*, 10(4), ISSN 2162-1357(Print), ISSN 2162-1381(Online). <https://doi.org/10.30845/ijbht.v10n4p1>
35. Perifanou, M., & Economides, A. A. (2020). Gender gap in digital skills in Greece, *Scientia Moralitas International Journal of Multidisciplinary Research*, 592). ISSN 2472-5331 (Print) ISSN 2472-5358 (Online). <https://doi.org/10.5281/zenodo.4384559>
36. Nikou, S., & Economides, A.A. (2019). A comparative study between a computer-based and a mobile-based assessment: usability and user experience. *Interactive Technology and Smart Education*, 16(4), pp. 381-391. DOI: 10.1108/ITSE-01-2019-0003
37. Papamitsiou, Z., & Economides, A. A. (2019). Exploring autonomous learning capacity from a self-regulated learning perspective using learning analytics, *British Journal of Educational Technology*, 50(6), pp. 3138-3155. DOI: 10.1111/bjet.12747

38. Armas, J., Daradoumis, Th., Economides, A.A., & Juan, A.A. (2019). Horizontal cooperation practices in Internet-based higher education, computational logistics, and telecommunications, *Journal of Computer Science*, 15(1), pp. 197-206. DOI: 10.3844/jcssp.2019.197.206
39. Nikou, S., & Economides, A.A. (2019). Factors that influence behavioral intention to use Mobile-Based Assessment: a STEM teachers' perspective, *British Journal of Educational Technology*, 50(2), pp. 587–600 DOI:10.1111/bjet.12609
40. Kampitaki, D., & Economides, A.A. (2018). Exploiting selfishness, altruism and common welfare to enhance performance of routing protocols for Mobile Ad hoc Networks, *Wireless Personal Communications*, 103(3), pp. 2377-2390, DOI: 10.1007/s11277-018-5914-z
41. Nikou, S., & Economides, A.A. (2018). Mobile-based assessment: a literature review of publications in major referred journals from 2009 to 2018, *Computers & Education*, Vol. 125, pp. 101-119, DOI: 10.1016/j.compedu.2018.06.006
42. Stolaki, A., & Economides, A.A. (2018). The creativity challenge game: an educational intervention for creativity enhancement with the integration of Information and Communication Technologies (ICTs), *Computers & Education*, Vol. 195, pp. 195-211, DOI: 10.1016/j.compedu.2018.05.009
43. Nikou, S., & Economides, A.A. (2018). Mobile-based micro-learning and assessment: Impact on learning performance and motivation of high-school students. *Journal of Computer Assisted Learning*, Vol. 34, No 3, pp. 269-278. DOI: 10.1111/jcal.12240
44. Moridis, C.N., Terzis, V., Economides, A.A., Karlovasitou, A., & Karabatakis, V.E. (2018). Using EEG frontal asymmetry to predict IT user's perceptions regarding usefulness, ease of use and playfulness. *Applied Psychophysiology and Biofeedback*, Vol. 43, pp. 1-11, DOI: 10.1007/s10484-017-9379-8
45. Papamitsiou, Z., & Economides, A. A. (2017). Exhibiting achievement behavior during computer-based testing: What temporal trace data and personality traits tell us? *Computers in Human Behavior*, Vol. 75, pp. 423-438. DOI: 10.1016/j.chb.2017.05.036
46. Sarigiannidis, P., Karapistoli, E., & Economides, A. A. (2017). Modelling the Internet of Things under attack: a G-network approach, *IEEE Internet of Things Journal*, Issue 99, DOI: 10.1109/JIOT.2017.2719623



47. Panaousis, E., Karapistoli, E., Elsemary, H., Alpcan, T., Khuzanie, M.H.R., & Economides, A.A. (2017). Game theoretic path selection to support security in device-to-device communications. *Ad Hoc Networks*, Vol. 56, No. 1, pp. 28-42. DOI: 10.1016/j.adhoc.2016.11.008
48. Nikou, S., & Economides, A.A. (2017). Mobile-based assessment: Investigating the factors that influence behavioral intention to use. *Computers & Education*, Vol. 109, pp. 56–73. DOI: 10.1016/j.compedu.2017.02.005
49. Nikou, S., & Economides, A.A. (2017). Mobile-Based Assessment: integrating acceptance and motivational factors into a combined model of Self-Determination Theory and Technology Acceptance. *Computers in Human Behavior*, Vol. 68C, pp. 83-95. DOI: 10.1016/j.chb.2016.11.020
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53. Sarigiannidis, P., Karapistoli, E., & Economides, A.A. (2015). Detecting Sybil attacks in wireless sensor networks using UWB ranging-based information, *Expert Systems with Applications*, Vol. 42, No. 21, pp. 7560-7572, ISSN 0957-4174, DOI:10.1016/j.eswa.2015.05.057
54. Salavasidis, P.K., & Economides, A. A. (2015). The necessity of face-to-face meetings in distance education. *New Pedagogue*, Vol. 5, pp.141-151, ISSN: 2241-6781.
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57. Karapistoli, E., & Economides, A. A. (2014). ADLU: a novel anomaly detection and location-attribution algorithm for UWB wireless sensor networks. *The EURASIP Journal on Information Security*, Vol. 2014/1, No 3. DOI: 10.1186/1687-417X-2014-3.
58. Papamitsiou, Z., & Economides, A.A. (2014). Temporal learning analytics for adaptive assessment. *Journal of Learning Analytics*, Vol. 1, No. 3, pp. 165-168. ISSN 1929-7750 (online).
59. Papamitsiou, Z., & Economides, A. A. (2014). Learning analytics and educational data mining in practice: a systematic literature review of empirical evidence. *Educational Technology & Society*, 17 (4), 49–64. IEEE. ISSN 1436-4522. [http://www.ifets.info/journals/17\\_4/4.pdf](http://www.ifets.info/journals/17_4/4.pdf)
60. Terzis, V., Moridis, C. N., & Economides, A. A. (2013). Measuring instant emotions based on facial expressions during computer-based assessment. *Personal and Ubiquitous Computing*, Vol. 17, No. 1, pp. 43-52. Springer. ISSN (print): 1617-4909, ISSN (electronic): 1617-4917. DOI 10.1007/s00779-011-0477-y
61. Terzis, V., Moridis, C. N., Economides, A. A., & Rebolledo Mendez (2013). Computer based assessment acceptance: a cross-cultural study in Greece and Mexico. *Journal of Educational Technology & Society*, Vol. 16, No. 3, pp. 411-424. IEEE. ISSN 1436-4522. <https://www.jstor.org/stable/jeductechsoci.16.3.411>
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63. Angelou, G., & Economides, A. A. (2013). Broadband business by utilities infrastructure exploitation: a multistage competition model. *Telecommunications Policy*, Vol. 37, No. 1, pp. 63-79. Elsevier. ISSN: 0308-5961. DOI:10.1016/j.telpol.2012.07.009
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66. Palaiologk, A. S., Economides, A. A., Tjalsma, H. D., & Sesink, L. B. (2012). An Activity-Based Costing model for long-term preservation and dissemination of digital research data: the case of DANS. *International Journal on Digital Libraries (IJDL)*, Vol. 12, No. 4, pp. 195-214. Springer Verlag. ISSN (print): 1432-5012, ISSN (electronic): 1432-1300. DOI DOI:10.1007/s00799-012-0092-1
67. Terzis, V., & Economides, A. A. (2012). The effect of emotional feedback on behavioral intention to use computer based assessment. *Computers & Education*, Vol. 59, No. 2, pp. 710-721. Elsevier. ISSN: 0360-1315. DOI:10.1016/j.compedu.2012.03.003
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73. Moutafidis, G., & Economides, A. A. (2011). Demand for broadband access in Greece, *Telematics and Informatics*, Vol. 28, No. 2, pp. 125-141. Elsevier. ISSN: 0736-5853. DOI:10.1016/j.tele.2010.10.003

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## CONFERENCE KEYNOTE/ PLENARY SPEAKER

- CITS 2022 - Int. Conf. on Computer, Information and Telecommunication Systems.
- ICEEG 2020 - 4th Int. Conference on E-commerce, E-Business and E-Government.
- ICETE 2016 - 13<sup>th</sup> Int. Joint Conference on e-Business and Telecommunications.
- PhyCS 2016 - 3<sup>rd</sup> Int. Conference on Physiological Computing Systems.
- CCIT 2014 - Int. Conference on Advances in Computing, Communication and Information Technology.
- EE 2007 - 4<sup>th</sup> Int. Conference on Engineering Education.
- DIWEB 2005 - 5<sup>th</sup> Int. Conference on Distance Learning and Web Engineering.

## TEACHING ACTIVITIES

### Head of Undergraduate Courses at the University of Macedonia (currently or in the past since 1993):

- Information Systems in Economics and Management (currently).
- Information Systems Applications in Economics and Management (currently).
- Introduction to E-Commerce (currently).
- Special Topics in Ecommerce (currently).
- Computers I.
- Computer II.
- Special Topics in Information Technology I.
- Special Topics in Information Technology II.
- Introduction to Information Technology (1993-1998).
- Computer Networks - Telematics (1994-1996).
- Design and Development of Computer Networks (1995-2002).

### Head of PostGraduate Courses at the University of Macedonia (currently or in the past since 1997):

- E-Commerce & Digital Marketing (currently).
- Computer Networks (currently).



- Telecommunication Technologies & Networks.
- Strategies for IT & Telematics.
- Techno-Economics and Strategies of Informatics & Telecommunications.
- Regulatory Framework & Economic Analysis of New Technologies.
- Information Systems & Electronic Commerce.
- Information Systems for Marketing & Polls.