

## **Joseph Liaskos**

**Laboratory Teaching Staff (EDIP), Health Informatics**

**Laboratory: Health Informatics, Department: Public Health**

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### **TEACHING**

#### **Undergraduate**

1. Introduction to Informatics and Health Data Management (Laboratory), 1<sup>st</sup> semester
2. Health Informatics (Laboratory), 2<sup>nd</sup> semester

#### **Postgraduate**

1. Informatics principles (Laboratory, e-learning), 1<sup>st</sup> semester, Specialty “Health Informatics”, Interuniversity Postgraduate Programme “Health Care Management – Health Informatics”
2. E-Health and Applications, 1<sup>st</sup> semester, Programs of Post-graduate Studies: Crisis and Disaster Management and Public Health Nursing, Applied Nursing Science, Advanced Clinical Nursing, Advanced Nursing Care and Mental Health of Children and Adults

### **EDUCATION**

#### **Doctoral Diploma**

- Health Informatics (Ph.D.), Interuniversity Postgraduate Programme “Health Care Management – Health Informatics”, National and Kapodistrian University of Athens

#### **Postgraduate Diploma**

- Health Informatics (M.Sc.), Interuniversity Postgraduate Programme “Health Care Management – Health Informatics”, National and Kapodistrian University of Athens

#### **First Degree**

- Nursing (B.Sc.), National and Kapodistrian University of Athens
- History (B.Sc.), Ionian University
- Certificate of Pedagogical and Teaching Adequacy, 1-Year Pedagogical Training Programme (EPPAIK), Department of Education, School of Pedagogical and Technological Education (ASPETE)

### **RESEARCH INTERESTS**

1. Health Informatics
2. Nursing Informatics
3. ICTs in health

4. Digital health
5. E-learning and education
6. Health information systems and evaluation
7. Controlled terminologies, classification systems in health

## RESEARCH PROGRAMMES

1. Title: “NIGHTINGALE” (Nursing Informatics: Generic High-level Training in Informatics for Nurses; General Applications for Learning and Education), Grant agreement ID: HC1109.  
Brief description: Design and implementation of a strategy for the training of professional nurses on the use and application of Health Information Systems. Use of advanced telematic infrastructure for nursing education and training across Europe in the field of Nursing Informatics.  
Funding source: FP4-TELEMATICS 2C, European Commission.
2. Title: “HEALTHLINE” (Securing the success of health telematics projects implementation of telehealth through information dissemination and training). Grant agreement ID: HC4007.  
Brief description: Creating a network of information and tele-training services for healthcare professionals on issues related to healthcare, networks, web applications, multimedia, telemedicine, tele-education, etc.  
Funding source: FP4-TELEMATICS 2C, European Commission.
3. Title: “TELENURSE-ID” (Telematic Applications for Nurses – Integration Dissemination European terminology in information technology). Grant agreement ID: HC4029.  
Brief description: Promotion of an International Classification for Nursing Practice (ICNP) and a Nursing Minimum Data Set (NMDS) in electronic patient care records to counter the lack of uniform comparative descriptive data on nursing care.  
Funding source: FP4-TELEMATICS 2C, European Commission.
4. Title: “FRR” (Friendly Rest Room for Elderly People), Grant agreement ID: QLK6-CT-2001-00458.  
Brief description: Research, design, build and test prototypes for a Friendly Rest Room for older people and people with disabilities. Adjustment of all toilet elements to the individual needs of elderly and disabled people, allowing them to gain greater autonomy, independence therefore have a better quality of life.  
Funding source: FP5-LIFE QUALITY, European Commission.
5. Title: “Nursing Information System of a surgical hospital ward, based on nursing progress and on the International Classification for Nursing Practice (ICNP)”.  
Brief description: Investigate, design, development an effective way of creating, documenting, and administrating nursing care plans, by using and integrating an internationally standardized and accepted vocabulary of nursing terminology, in order to facilitate the clinical nurse in his work of providing nursing care to patients, and especially to patients suffering from surgical problems. Development of an electronic nursing information system, which integrates the International Classification for Nursing Practice (ICNP), and the nursing process’ steps, for the planning and providing individualized nursing care to patients.  
Funding source: “Kapodistrias” program, Special Account for Research Grants (SARG), National and Kapodistrian University of Athens (NKUA).
6. Title: “EHTAN” (European Healthcare Training and Accreditation Network).

Brief description: Facilitate EU nurse workforce mobility. Its aim was to consider how the experience, qualifications, competence, skill levels, methods, working practices, attitudes and culture of nursing staff from across the EU might be compared. The EHTAN project's main contribution to facilitating nurse mobility across the EU is a competence matrix, a Web-based facility. This provides EU nurses and potential employers with information which may help nurses to be more easily integrated into the respective healthcare systems of other member countries.

Funding source: Leonardo da Vinci programme, European Commission.

7. Title: "MedSkills".

Brief description: Creating a web-based training and learning environment on evidence-based medical skills and developing multimedia educational material. Improving the competence in skills of all target groups, the quality of, and access to continuing vocational training. The main modules of the training material developed contain information on common medical emergencies.

Funding source: Leonardo da Vinci programme, European Commission.

8. Title: "EIPEN" (European InterProfessional Network).

Brief description: Set up a network to develop and disseminate good practices in inter-professional education in health and social care in the six partner countries. Development of a transnational, sustainable, inclusive network of people and organizations (universities and employers), as well as sharing, developing and promoting effective interdisciplinary learning and teaching curricula, methods and materials, good practices, for improving practical collaborative practice and multi-agency working in health and social care.

Funding source: Leonardo da Vinci programme, European Commission.

9. Title: "RN4CAST" (Nurse Forecasting: Human Resources Planning in Nursing), Grant agreement ID: 223468.

Brief description: Innovative methods of forecasting the needs of nursing staff. The project aims not only in the volumes but also in the quality of nursing staff as well as in the quality of patient care. It reviews the ways of scheduling the nursing workforce at national and European level and adds recent data to improve the accuracy of nursing work management. Data collection focuses on general hospitals, which employ the majority of nursing staff, represent the largest number of medical errors and account for the bulk of national health expenditure. RN4CAST contributes to the precision of forecasting patterns and creates new approaches for more effective management of health care resources in Europe.

Funding source: FP7-HEALTH, European Commission.

10. Title: "EUNetPaS" (European Union Network for Patient Safety), Grant agreement ID: A/100861.

Brief description: The project established a network of all 27 EU Member States, international organisations, and stakeholders in the field of healthcare (healthcare professionals, patients, institutions, and scientists) to encourage and enhance collaboration in the field of patient safety. The objectives of the project were to: a) promote coherence at the EU level through recommendations and common tools, b) promote a patient safety culture based on no-blame reporting, c) promote education and information on patient safety, and d) create a permanent collaboration network on patient safety.

Funding source: Public Health Executive Agency (PHEA) Health Programme, European Commission.

11. Title: "Spatial Planning of Primary and Secondary Health Care Services and Creation of Health Map of Prefecture of Lassithi".

## SCIENTIFIC PUBLICATIONS (selected)

1. **Liaskos J**, Diomidus M. Multimedia technologies in education. *Studies in Health Technology and Informatics* 2002;65:359-372.
2. **Liaskos J**, Mantas J. Documenting Nursing Practice by Using ICNP on the Web. *Studies in Health Technology and Informatics* 2003;95:806-11.
3. **Liaskos J**, Mantas J. Technologies of Smart Toilets for the Elderly and People with Disabilities: The Friendly Rest Room Project. *The Journal on Information Technology in Healthcare*. 2005;3(5):315-322.
4. **Liaskos J**, Mantas J. Measuring the User Acceptance of a Web-Based Nursing Documentation System. *Methods of Information in Medicine* 2006;45(1):116-20.
5. **Liaskos J**, Frigas A, Antypas K, Zikos D, Diomidous M, Mantas J. Promoting Interprofessional Education in Health Sector within the European Interprofessional Education Network. *International Journal of Medical Informatics* 2009;78 Suppl 1:S43-7. doi: 10.1016/j.ijmedinf.2008.08.001.
6. Zikos D, **Liaskos J**, Diomidous M, Mantas J. Collection and sharing of information on patient safety education and training in Europe. *Studies in Health Technology and Informatics* 2009;150:745-9.
7. Gallos P, Daskalakis S, Katharaki M, **Liaskos J**, Mantas J. How do nursing students perceive the notion of EHR? an empirical investigation. *Studies in Health Technology and Informatics* 2011;169:243-7.
8. Copanitsanou P, **Liaskos J**, Tsarouchas T. Predictive factors for in-hospital stay and complications after hip fracture. *International Journal of Orthopaedic and Trauma Nursing* 2012;14(4):206-213. doi: 10.1016/j.ijotn.2011.12.005
9. Gallos P, Georgiadis C, **Liaskos J**, Mantas J. Augmented Reality Glasses and Head-Mounted Display Devices in Healthcare. *Studies in Health Technology and Informatics*. 2018;251:82-85.
10. Kontogiannatou A, **Liaskos J**, Gallos P, Mantas J. Usefulness, Ease of Use, Ease of Learning and Users' Satisfaction of E-Prescription and E-Appointment Systems for Primary Health Care. *Stud Health Technol Inform*. 2019;262:210-213. doi: 10.3233/SHTI190055.
11. Markopoulou V, Nieri A, **Liaskos J**, Zoulias E, Mantas J. Nursing Staff's Awareness of Processing Personal Data According to GDPR. *Stud Health Technol Inform*. 2020;272:237-240. doi: 10.3233/SHTI200538.
12. Soilemezi C, **Liaskos J**, Mantas J. A Smartphone App for Bedside Recording of Nursing Handovers in Haemodialysis Units. *Stud Health Technol Inform*. 2021;281:669-673. doi: 10.3233/SHTI210256.
13. Magdalinou A, **Liaskos J**, Isaakidou M, Mantas J. The Transition to Distance Learning in the Era of Covid-19 Pandemic: The Perceptions and Experiences of Nursing Students. *Stud Health Technol Inform*. 2022;295:495-498. doi: 10.3233/SHTI220773.
14. Kourmpanis N, **Liaskos J**, Zoulias E, Mantas J. Predicting Mortality in COVID-19 Patients Using 6 Machine Learning Algorithms. *Stud Health Technol Inform*. 2023;305:115-118. doi: 10.3233/SHTI230437.
15. Moutsana Tapolin F, **Liaskos J**, Zoulias E, Mantas J. A Conversational Web-Based Chatbot to Disseminate COVID-19 Advisory Information. *Stud Health Technol Inform*. 2023;305:483-486. doi: 10.3233/SHTI230538.

16. **Liaskos J**, Anagnostopoulos S, Zogas S, Mantas J. Continuing Educational Program in Nursing Informatics for Greek Nurses. *Stud Health Technol Inform.* 2024;316:1043-1047. doi: 10.3233/SHTI240589.

## **BOOKS (Chapters in books)**

1. **Liaskos J**, Mantas J. Nursing Information System. In: Mantas J, Hasman A, editors. *Textbook in Health Informatics*, IOS Press, Amsterdam, 2002. p. 258-265.
2. **Liaskos J**, Diomidous M. Multimedia Technologies in Education. In: Mantas J, Hasman A, editors. *Textbook in Health Informatics*, IOS Press, Amsterdam, 2002. p. 359-372.
3. **Liaskos J**, Mantas J. Health Data Security Issues. In: Mantas J, Molenbroek J, de Bruin Renate, editors. In: Molenbroek J, Mantas J, de Bruin Renate, editors. *A Friendly Rest Room: Developing Toilets of the Future for Disabled and Elderly People*, IOS Press, Amsterdam, 2011. p. 27-32.
4. Knall G, Sourtzi P, **Liaskos J**. Experience of testing with elderly users. In: Molenbroek J, Mantas J, de Bruin Renate, editors. *A Friendly Rest Room: Developing Toilets of the Future for Disabled and Elderly People*, IOS Press, Amsterdam, 2011. p. 141-150.
5. Daskalakis S, Katharaki M, **Liaskos J**, Mantas J. Behavioral security: Investigating the attitude of Nursing students toward security concepts and practices. In: Varlamis I, Chryssanthou A, Apostolakis I, editors. *Certification and Security in Health-Related Web Applications: Concepts and Solutions*, IGI Global Publishing, Pennsylvania, USA, 2011. p. 264-285.
6. **Λιάσκος Ι**, Μαντάς Ι. Νοσηλευτικό Πληροφοριακό Σύστημα. Στο: Μαντάς Ι, Hasman A. *Πληροφορική της Υγείας: Νοσηλευτική Προσέγγιση, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, Αθήνα, 2007. σελ. 240-246. (in Greek)*
7. **Λιάσκος Ι**, Διομήδους Μ. Τεχνολογίες Πολυμέσων στην Εκπαίδευση. Στο: Μαντάς Ι, Hasman A. *Πληροφορική της Υγείας: Νοσηλευτική Προσέγγιση, Ιατρικές Εκδόσεις Π.Χ. Πασχαλίδης, Αθήνα, 2007. σελ. 328-340. (in Greek)*

## **ORGANIZATIONAL AND ADMINISTRATIVE ACTIVITIES**

1. Member of the organizing committee of the conference: European Federation of Medical Informatics – Special Topic Conference (EFMI-STC2005), “Health and Medical Informatics Applications - Educational Aspects”, Athens March 19<sup>th</sup> – 20<sup>th</sup> 2005.
2. Member of the organizing committee of the 6 conferences (3<sup>rd</sup> – 8<sup>th</sup>): “International Conference on Information Communication Technologies in Healthcare” (ICICTH), Research and Training Institute of East Aegean (INEAG), Samos, July 2005 – 2010.
3. Member of the organizing committee and reviewer of papers of the 6 conferences (16<sup>th</sup> – 21<sup>st</sup>): “International Conference on Informatics, Management and Technology in Healthcare (ICIMTH), Athens, July 2018 – 2024.

## **HONORARY AWARDS**

1. Excellent scholarship at graduation from the specialty of Health Informatics (M.Sc.), Interuniversity Postgraduate Programme “Health Care Management – Health Informatics”, National and Kapodistrian University of Athens.
2. Award of excellence and honorary title, in memory of Assistant Professor Evi Olympitou, at graduation from the Department of History (B.Sc.), Ionian University.

3. Best Paper on Education in Biomedical and Health Informatics at 34<sup>th</sup> Medical Informatics Europe Conference (MIE 2024) from European Federation of Medical Informatics.