



Lefteris G Gortzis, MSc, PhD SMIEEE

**MEDICAL PHYSICIST**

**FULL CV**

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## CONTACT

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## EDUCATION

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**Ph.D.**, Medical Physics/Informatics, University of Patras, Greece, December (2004)

Ph.D. Thesis Title: **Design methodologies for supporting Telediagnostic and Telesurgical Services over web.**

**M.Sc.**, Medical Physics, University of Patras, Greece, (2001)

M.Sc. Thesis Title: **Systems for sharing MRI medical data using DI.CO.M Servers.**

**B.Sc.**, Physics Science, University of Patras, Greece, July 1998

## CAREER

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### Current Positions

**Teaching fellow**, Subject: Theory Robotic Surgery, Department of Surgery, School of Medicine University of Patras (September 2014-present).

**Adjunct Professor**, TEI Patras, Department of Applications of Informatics to Management and Economics, Greece (2010-2013)

**Adjunct Professor**, TEI Patras, Department of Informatics to Management and Economics, Greece (2009-2010)

**Scientific Instructor**, of Telemedicine Unit of University of Patras Greece (2004-2014) Link: <http://www.telemedicine.upatras.gr>

**Laboratory Professor**, Department of Medical Physics, School of Medicine University of Patras (September 2005-2014)

### **Research Interests**

His main research interests include Telemedicine, Collaborative healthcare systems, Telesurgery, Telediagnosis, Robotics, Data Mining in Medical databases, and Artificial Intelligence, Biological Image Analysis, and Modeling of physiological systems and processes.

### **Employment in Research Labs & Institutes**

**Researcher**, Industrial Systems Institute (INBIS/ISI), Foundation for Research and Technology-Hellas (01/11/2002–31/12/2003). **INNACT** project, **ACTION 3**: Use of innovative services in the health and safety sectors for the citizens, **TITLE: Peace of mind residential e-services.**

**Research Intern**, WinVicos system in SuperFast ferries via EUTELSAT. Project title: **An INTEgrated broadband telecommunication pilot teleservices-platform for improving health care provision in the Region of MEDiterranean** (INTERMED), Charité Hospital, Germany and National Research Centre for Physical Sciences (NRCPS)

Demokritos, National Foundation for Research and Technology-  
Greece (2003-2005)

## **Projects and Consultancy Experience**

Dr. Gortzis has served as a:

**Scientific Coordinator** in EU Program: Erasmus+ KA2: KA220-HED-E19E3ADF - Project Title: **Support for University Student Mental Health - Training for Teaching Staff** Start date: 01/01/2024 End date: 31/12/2026.

**Scientific Coordinator** in EU Program: Erasmus+ KA2: Cooperation partnerships in Higher Education Reference: 2021-1-LT01-KA220-HED-000031124 Start date: 01/01/2022 End date: 31/12/2023.

**Coordinator** in E.U. Medical Informatics Project, entitled “GlucoNID” Innovative TreatMeOut module for monitoring Glucose (Funded by RESEARCH-CREATE-INNOVATE Research Program, Minister of Development, Project Title: **Non-Invasive System for Monitoring, and Preventing Glucose Level (2018)**, T1EDK-01128 (€ 378.890,16).

**Project leader** in E.U. IT Project, entitled “Internet Platform for Organization – Exploitation & Promotion of Conference Tourism and Other Cultural Exhibitions” Project funded in the context of the EU/2005, Western Greece, Budget 118.048 € (SAEP 001/3).

**Project leader** in E.U. IT Project entitled "Digitalization of the Contents of Pyrgos" Project funded in the context of the EU/94912/002, Western Greece, Budget 77.600€ € (SAEP 3882).

**Project Designer** in E.U. IT Project entitled "A System for Supporting Electronic Services to Citizens Of Pyrgos" Project funded in the context of Information Society, Minister of Development, Greece.

**Sub-investigator** in Pfizer Project, entitled "An International Multicenter, Open Label Study to Assess the Effectiveness of Amlodipine - Atorvastatin Combination in Subjects with Hypertension and Dyslipidaemia" (The JEWEL II Study). Protocol number: A3841029.

**Sub-investigator** in project EPET II (EKBAN) entitled "New Services For Tele-Management Of Building Processes Based On Internet Technologies And Building-Home Automation Systems" (01/2001-12/2002).

**Researcher**, Industrial Systems Institute (I.S.I.), Project's title: "Development and Demonstration of An Innovative System For Provision Of A Bundle Of Residential Peace Of Mind E-Services", INNACT-RWG (2002-2004).

**Researcher**, EU Project IST-2001-38911: Self Organized Of Connectionist Intelligent Agents Capable Of Learning (01.01.2003 - 31.06.2004).

**Consultant** of Hellenic National Foundation of Research (1/1/2003-1/1/2004).

## **Medical Systems**

Working as a senior researcher Dr. Gortzis has designed and has guided his team to develop the following systems:

**TreatMeOut System:** TreatMeOut system is able to monitor Heart Rate, Heart Rate Variability via an innovative mobile app. Android and iOS versions have been developed. Team size: 5 researchers 10 developers.

**SatelliteAngio** was an innovative R&D project that included the designing and the implementation of a Collaborative clinical system to support the Collaborative Work During Interventional Radiological Procedures Based on a Multicast Satellite-Terrestrial Network. Foundational work in improving modules of composite solutions built on a prototype Wavelet based interactive Video communication system wavelet codec Partition, Aggregation and Conditional Coding (PACC), and an integrated satellite-terrestrial network via EUTELSAT (2006-2007). Team size: 14 researchers.

**NetAngio was** an innovative R&D project that included the designing and the implementation of a Collaborative clinical system to provide “on the fly” heterogeneous collaboration to support IRP providing interoperating essential services (2005-2006). Team size: 5 researchers.

**NetCardio** was an innovative R&D project that included the designing and the implementation of a Collaborative clinical system to support

over web synchronous and asynchronous data management, real-time multimedia data telemonitoring and continuous telementoring during interventional cardiology facilities (2005-2006). Team size: 5 researchers.

**e-HS (2003-2004)** was an innovative R&D project that included the designing and the implementation of a Collaborative clinical system to support useful haematological services. Team size: 4 researchers.

**NetUro (2002-2003)** was an innovative R&D project that included the designing and the implementation of a Collaborative clinical system to support a Web-enabled network for diagnostic and therapeutic guidance in Urology. Team size: 4 researchers.

## PROFESSIONAL SOCIETIES AND POSITIONS

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### Task Forces and Major University Committees

- **Senior member of IEEE**
- Partner B3 Integrated Care EIP on AHA, Action Group, European Commission  
[https://ec.europa.eu/eip/ageing/commitments-tracker/b3/integrated-ehealth-care\\_en](https://ec.europa.eu/eip/ageing/commitments-tracker/b3/integrated-ehealth-care_en)
- Member of **IOT Council**  
(<https://www.theinternetofthings.eu/lfteris-gortzis>)
- Vice President of IEEE Greece GOLD Affinity Group Council
- Member of Engineering in Medicine and Biology Society (**EMBS**).
- Member of American Medical Informatics Association (**AMIA**)
- Member of Computer Society

## Member of Editorial Boards

- Associate Editor of BMC Health Services Research journal (IF=1.71)  
/Organization, Structure and Delivery of Healthcare' Section
- International Journal of Computer Applications
- International Journal of Applied Information Systems

## Reviewer

- BRITISH MEDICAL ASSOCIATION (BMA Medical Book Competition 2006-2007).
- IEEE Transactions on Information Technology in Biomedicine
- Computer Methods and Programs in Biomedicine
- Journal of Medical Internet Research
- IEEE Transactions on Biomedical Engineering,
- IEEE Transactions on Biomedical Engineering, vol. 51, NO. 1, (2004) pp 198-201
- Medical Decision Making

## PATENTS

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**GR 20170200142** Diagnosing Node for providing collaborative services  
Digital Health and First Assistance

**GR 20170100068** Monitoring and prognostic Methodology and system of  
physical and clinical status and performance of athletes in real time.  
(A63B 24/00)



**GR 20160100513** e-Health Cloud system through Unattended Flying Objects B64C 39/02

**GR (GR Patent pending)** Method and System for non-invasive Glucose/Diabetes Diagnosis and Monitoring (**GlucoNID**)

## **LIST OF SELECTIVE PUBLICATIONS (limited to higher IF)**

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### **Ph.D & M.Sc Thesis**

**[D.1]** Ph.D Thesis Title: **Design methodologies for supporting Telediagnostic and Telesurgical Services over web**, University of Patras, Greece (2004)

**[D.2]** M.Sc Thesis Title: **Systems for sharing MRI medical data using DI.CO.M Servers**, University of Patras, Greece (2001)

### **Articles in peer reviewed Journals**

**[J.1]** C. Pylarinou, S. Zimeras, L.G. Gortzis, A Time Efficient Heart Attack Pre-Hospital Management Methodology Based on Collaborative Scheduling Using Constraint Optimization, **International Journal of Environmental Protection IJEP**, January 2012 Vol.2 no.1 pp.29-34.

- [J.2] L.G Gortzis, Estimating the success of e-health collaborative services: the THEMIS framework, **Journal Informatics for Health and Social Care** 2011 Mar;36 (2):89-99. (2011) Feb 3.
- [J.3] L.G. Gortzis, Selecting healthcare information systems provided by third-party vendors: A mind map beyond the manuals, **Journal Informatics for Health and Social Care**, January 2010, Vol. 35, no.1, Pages 1-9.
- [J.4] L.G. Gortzis, e-Health: Are there expert patients out there? **Journal Health Sociology Review** Vol. 18 (2) 2009: pp 173-181.
- [J.5] L.G. Gortzis, D. Alexopoulos, G. Nikiforidis, Structuring an easily reengineered generic system to support collaborative homecare, **International Journal of Telemedicine and Applications, Special issue e-Healthcare**.
- [J.6] L.G. Gortzis, I. Ilias, K. Stamoulis, P. Lyberopoulos, I. Dimopoulou, Investigating the Prognostic Accuracy of Standardized Data Mining Methods in Intensive Care Unit, **Journal of Computational Methods in Sciences and Engineering**, 8, 4-6 2009: pp 253-259.
- [J.7] L.G. Gortzis, F. Sakelaropoulos, I. Ilias, K. Stamoulis, M. Dimopoulou Predicting ICU survival: A meta-level approach, **Journal BMC Health Services Research** (2008), 8:157 doi: **10.1186/1472-6963-8-157**.

- [J.8] **L.G. Gortzis**, I. Bakettas, C. Makropoulos, G. Graschew, G. Nikiforidis, Portable Biomedical Devices A Critical Issue During Telecare Services Designing, **Journal Informatics for Health and Social Care**, Vol. 33 (2) June (2008), pp 91-98 doi: **10.1080/17538150802127165**.
- [J.9] **L.G. Gortzis**, G. Nikiforidis, Tracing and Cataloguing Knowledge in an e-Health Cardiology Environment, Special issue on Data Mining, **Journal of Biomedical Informatics**, Vol 41, Issue 2, pp 217-408 (April 2008) doi **10.1016/j.jbi.2007.09.001**
- [J.10] **L.G. Gortzis**, Designing and Redesigning Medical Telecare Services: A Forces-Oriented Model, **Journal of Methods of Information in Medicine**, Vol 46 (1) pp 27-35, (2007).
- [J.11] **L.G. Gortzis**, A. Kalogeropoulos, D. Alexopoulos, G. Nikiforidis, Optimizing the Interventional Cardiology Facility: Services Integration in Routine Workflow, **Journal of Methods of Information in Medicine**, Vol 46(3) pp 344-351, (2007).
- [J.12] **L.G. Gortzis**, H. Papadopoulos, T. A. Roelofs, S. Rakowsky, D. Karnabatidis, D. Siablis, C. Makropoulos, G. Nikiforidis, G. Graschew, Collaborative Work During Interventional Radiological Procedures Based on a Multicast Satellite-Terrestrial Network, **Journal of IEEE Transactions on Information Technology in Biomedicine**, Vol 11(5) pp 597-599 (2007), (doi **10.1109/TITB.2007.894724**).
- [J.13] Papadopoulos, D. Pappa and **L.G. Gortzis**, A Framework for Dealing With Legal and Clinical Risks Arising from the Use of m-

Health Systems, **Journal on Information Technology in Healthcare**, Vol 5(3) pp 182-195, (2007).

**[J.14] L.G. Gortzis**, D. Karnabatidis, D. Siablis, G. Nikiforidis, Clinical-Oriented Collaborative Work over Web During Interventional Radiological Procedures, **Journal of Telemedicine and e-Health** Vol 12(4) pp448-456, (2006).

**[J.15] L.G. Gortzis**, S. Koubias, G. Nikiforidis, Design and the Implementation of a Web-Enabled Haematological Suite, **Journal of Computer Methods and Programs in Biomedicine**, Vol 75(3) pp 221-234, (2004).

**TOP25 articles within the journal**

**[J.16]** E. Liatsikos, **L.G. Gortzis**, G. Nikiforidis, G. Barbalias Tele-Diagnostic and Therapeutic Guidance in Urology, **Journal of Endourology**, Vol 18(7), pp 625-628, (2004).

**[J.17]** E. Liatsikos, **L. G. Gortzis**, A. Athanasopoulos , P. Perimenis, G. Barbalias, G. Nikiforidis, Clinical-oriented Collaborative Work over web during endourology procedures, **Journal of Endourology**, 19: supplement 1, a287-a303, (2005).

**[J.18]** E.N Liatsikos, **L G. Gortzis**, G. Nikiforidis, G A. Barbalias, Real-time multi-telementoring and teleeducation services for Urologic Laparoscopic Procedures: a new IP methodology **Journal of Urology** 173(4) Supplement :1-467, (2005).

- [J.19] E.N Liatsikos, **L.G. Gortzis**, G Nikiforidis, G Barbalias Teaching and Learning Curve, **Journal of Endourology**, 17: Supplement 1, pp 361-375, (2003).
- [J.20] E.N Liatsikos, **L.G. Gortzis**, G. Nikiforidis, G A. Barbalias, An IP method for supporting real time multi-telementoring and teleeducation services at urologic laparoscopic procedures, **Journal of Endourology**, 18: Supplement 1, P1-P109, (2004).

#### Articles in Proceedings of peer-reviewed Conferences

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- [P.1] C. Pylarinou, L.G. Gortzis, S. Zimeras, Coordinating effectively a heart attack pre-hospital service process using constraint optimization programming, Proceedings of the **International Conference of Electrical and Control Engineering (ICECE)**, 2011, Yichang 16-18 Sept. 2011, ISBN 978-1-4244-8162-0, pp. 4752 – 4755
- [P.2] D. Pappa, **L.G. Gortzis**, H. Papadopoulos and L. K. Stergioulas, Creating an advanced information system for supporting medical knowledge integration and management In Current Perspectives in **Healthcare Computing 2007**, Proceedings of the Healthcare Computing 2007 Conference (HC2007), Harrogate 19-21 March 2007, published by **The British Computer Society Health Informatics Forum**, ISBN 0-9546971-7-0, pp. 55-63.

- [P.3] V. Pouloupoulos, **L.G. Gortzis**, I. Bakettas, G. Nikiforidis, Multi-agent cooperation infrastructure to support patient-oriented telecare services, in Proceedings of the **4th IEEE International Conference on Information Technology: Research and Education-ITRE**, Tel Aviv, Israel, October 2006, Page(s):253–257  
**doi: 10.1109/ITRE.2006.381576**
- [P.4] H. Papadopoulos, D. Pappa and **L.G. Gortzis**, Legal and clinical risk assessment guidelines in emerging M-health systems, in Proceedings of the **IEEE International Conference on Information Technology in Biomedicine**, Ioannina, Greece October 2006, to appear.
- [P.5] H. Papadopoulos, D. Pappa and **L.G. Gortzis**, "Clinical Risk Assessment Guidelines in Emerging M-Health Systems" in Proceedings of the **First International Workshop on Virtuality and Society: Emerging Themes (IFIP WG 9.5) London School of Economics, UK**, June 16, 2006.
- [P.6] I. Bakettas, C. Deimante, **L.G. Gortzis**, G. Nikiforidis. An Advanced Connectivity for Distributed and Heterogeneous Clinical Databases in Proceedings of **Med-e-Tel 2006 Conference** Luxembourg, 2006 Hard copy version (ISSN: 1819-186X), and CD-ROM (ISSN: 1818-9334).  
[http://www.medetel.lu/download/2006/Proceedings\\_Contents.pdf](http://www.medetel.lu/download/2006/Proceedings_Contents.pdf)
- [P.7] E. Liatsikos, **L. G. Gortzis**, A. Athanasopoulos , P. Perimenis, G. Barbalias, G. Nikiforidis, Clinical-oriented Collaborative Work over web during endourology procedures, in Proceedings of

the **23rd World Congress on Endourology & SWL 21st Basic Research Symposium.**

- [P.8] E.N Liatsikos, **L G. Gortzis**, G. Nikiforidis, G A. Barbalias, Real time multi-telementoring and teleeducation services for Urologic Laparoscopic Procedures: a new IP methodology **American Urological Association (AUA) San Antonio USA** (24/05/2005) (ID 4108).
- [P.9] E.N Liatsikos, **L.G. Gortzis**, G. Nikiforidis, G A. Barbalias, An IP method for supporting real time multi-telementoring and teleeducation services at urologic laparoscopic procedures, in Proceedings of the **22nd World Congress on Endourology and SWL 20th Basic Research Symposium** (2004).
- [P.10] E.N Liatsikos, **L G. Gortzis**, G. Nikiforidis, G A. Barbalias, Teaching and Learning Curve, in Proceedings of the **21nd World Congress on Endourology and SWL 19th Basic Research Symposium, Montreal, Canada** 21-24 Sep. (2003).
- [P.11] **L. Gortzis**, G. Nikiforidis, An open infrastructure for semantic medical data integration in Proceedings of **International Conference on Information Communication Technologies in Health (ICICTH)** Samos, Greece, pp 27-31 (2004).
- [P.12] **L.G. Gortzis**, E. Liatsikos, G. Nikiforidis, Telediagnostic and therapeutic guidance in Urology, in Proceedings of **International Conference on Information Communication Technologies in Health** pp 27-31 Samos, Greece (2003).

## Scientific Books and Chapters

**L.G Gortzis** Medical Informatics and Telemedicine Services, Academic Publications (GR), ISBN: 978-960-387-544-4.

**L. Gortzis, TeleRadiology: New interventions in the era of Collaboration**, TELERADIOLOGY, Editors Sajeesh Kumar, Elizabeth Krupinski **SPRINGER-VERLAG. (INVITED) (2008) ISBN: 978 3 540 78870**

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D. Pappa, **L.G Gortzis**, Digital Rights Management in organizations: A critical consideration within a socio-technical approach, chapter in the upcoming book entitled Digital Rights Management for e-Commerce Systems, for **Idea Group ING**.

**L.G. Gortzis**, G Nikiforidis, Innovative web-based Methodologies for Supporting Endo-urological Surgical Procedures p.p 430-444, (Ed) E. Liatsikos, Jen-Uwe Stolzenburg "Endoscopic Urology", Publisher V.Giourdas "Endoscopic Urology", Publisher V. Giourdas Academic Publications. (GR) ISBN: 960-387-481-7