

Vassilis G. Koutkias

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Centre for Research and Technology Hellas - CERTH
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PERSONAL INFORMATION

Date of Birth: May 20, 1975
Current Positions: Researcher, Institute of Applied Biosciences, Centre for Research & Technology Hellas

EDUCATION

Ph.D., Medical Informatics Feb 2001 – June 2005
Program of Postgraduate Studies in Medical Informatics under collaboration of the Departments of Medicine, Computer Science and Electrical & Computer Engineering of the Aristotle University of Thessaloniki (A.U.Th.)
Thesis: "**Information Management and Processing in Distributed Biomedical Information Systems via Autonomous Software Agents**", doi: [10.12681/eadd/13727](https://doi.org/10.12681/eadd/13727).
Supervisor: Prof. Nicos Maglaveras

M.Sc., Medical Informatics Jan 1999 – Jan 2001, Grade: 9,25/10,00
Program of Postgraduate Studies in Medical Informatics under collaboration of the Departments of Medicine, Computer Science and Electrical & Computer Engineering of the Aristotle University of Thessaloniki (A.U.Th.)
Thesis: "**Physician Remote Access to Electronic Patient Records via the Wireless Application Protocol**"
Supervisor: Prof. Nicos Maglaveras

Diploma, Electrical & Computer Engineer Oct 1993 – Nov 1998
Aristotle University of Thessaloniki (A.U.Th.) Grade: 8,00/10,00
Division: Electronics and Computers
Thesis: "**Detection and Tracking of Stents in Angiographic Image Sequences**"
Supervisor: Prof. Michael G. Strintzis

WORK EXPERIENCE

2016 – now: Researcher Grade C', Institute of Applied Biosciences, Centre for Research & Technology Hellas

2013 – 2015: Senior Researcher - Marie Curie (IEF) Fellow, INSERM, U1142, LIMICS, F-75006, Paris, France

2010 – 2013: Research Scientist, Institute of Applied Biosciences (INAB), Center for Research and Technology Hellas (CERTH)

2007 – 2013: Senior Research Scientist, Lab of Medical Informatics, Faculty of Medicine, A.U.Th.

2005 – 2007: Postdoctoral Research Fellow, Lab of Medical Informatics, Faculty of Medicine, A.U.Th.

2000 – 2005: Research Associate, Lab of Medical Informatics, Faculty of Medicine, A.U.Th.

2000 – 2006: Cooperation with the Informatics and Telematics Institute (ITI), Center for Research and Technology, Hellas (CERTH) in various research projects

1998 – 1999: Software Developer, Information Processing Lab, Electrical and Computer Engineering Department, Faculty of Engineering, A.U.Th.

RESEARCH PROJECTS EXPERIENCE

Deputy Scientific Responsible for CERTH-INAB between September 2016 – August 2017 for the projects:

- **H2020-ICT-2014-640490:** 'An analytics framework for integrated and personalized health care services in Europe (**AEGLE**)', funded by the E.C. - <http://www.aegle-uhealth.eu/>
- **H2020-PHC-20-2014-643442:** INdependent LIVING support Functions for the Elderly (**InLIFE**)
- **H2020-PHC-26-2014-643491:** **PATHway** – Technology enabled behavioural change as a pathway towards better self-management of CVD
- **FP7-ICT-610510:** 'Ecosystem infrastructure for smart and personalised inclusion and PROSPERITY for ALL stakeholders (**Prosperity4All**)'

H2020-DS-SC1-2016-727528: '**KONFIDO** - Secure and Trusted Paradigm for Interoperable eHealth Services', funded by the E.C. - <http://www.konfido-project.eu/>

- Duties: Scientific Responsible for CERTH-INAB and WP3 ("User requirements analysis") leader
- Participation with: CERTH-INAB
- Duration: 11/2016 – now

H2020-ICT-2014-640490: 'An analytics framework for integrated and personalized health care services in Europe (**AEGLE**)', funded by the E.C. - <http://www.aegle-uhealth.eu/>

- Duties: Research, design and development and technical coordination
- Participation with: CERTH-INAB
- Duration: 09/2015 – now

PEOPLE-2012-IEF-330422: 2-year Marie Curie Individual Fellowship project entitled 'Semantic integrAtion and reasoning Framework for pharmacovigilancE signals Research (**SAFER**)', funded by the E.C. (<http://safer-project.eu/>)

- Duties: Main Researcher
- Participation with: INSERM, U1142, LIMICS, Paris, France
- Duration: 07/2013 – 6/2015

IST-2011-289016: Project related to accessibility and e-Inclusion, entitled 'Cloud platforms Lead to Open and Universal access for people with Disabilities and for All (**Cloud4all**)', funded by the E.C. (Integrated Project - IP) - <http://cloud4all.info/>

- Duties: Research, design and development and technical coordination
- Participation with: CERTH-INAB
- Duration: 11/2011 – 06/2013

IST-2007-216130: Project related to patient safety and medication, entitled 'Patient safety through Intelligent Procedures in medication (**PSIP**)', funded by the E.C. (Integrated Project - IP) - <http://www.psip-project.eu/>

- Duties: Research, design, development and technical coordination
- Participation with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.

- Duration: 1/2008 – 7/2011

IST-2007-216695: Project related to personalized monitoring, entitled 'Compliance and effectiveness in HF and CHD closed-loop management (**HeartCycle**)', funded by the E.C. (Integrated Project - IP) - <http://heartcycle.eu/>

- Duties: Research, design and development and technical coordination
- Participation with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 3/2008 – 5/2011

IST-2009-247950: Project related to the development of a universal, open platform and reference specification for Ambient Assisted Living (**universAAL**), funded by the E.C. (Integrated Project - IP) - <http://universaal.org/>

- Duties: Research, design and development
- Participation with: INAB/CERTH
- Duration: 2/2010 – 9/2010

IST-2004-027510: Biomedical Informatics related project addressing integration of biomedical information for better health, entitled 'ASsocation Studies assisted by Inference and Semantic Technologies (**ASSIST**)', funded by the E.C. (Specific Targeted Research Project - STREP) - <http://assist.ee.auth.gr/>

- Duties: Research, design and development and technical coordination
- Participated with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 1/2006 – 04/2009

INCOVIS: Project related to "Information Society and e-business", funded by the Greek Secretary of Technology, entitled 'An Intelligent Configurable Electronic Shop Platform based on 3D Visualisation'

- Duties: Research and development
- Participated with: CERTH-ITI
- Duration: 1/2005 – 4/2005

IST-2003-507231: Telemedicine related project entitled 'Advanced Sensor Development for Attention, Stress, Vigilance & Sleep/Wakefulness Monitoring (**SENSATION**)', funded by the E.C. (Integrated Project - IP) - <http://www.sensation-eu.org/>

- Duties: Research, design and development
- Participated with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 3/2004 – 12/2005

IST-2001-33369: Telemedicine project related to home-care service provision via interactive TV, entitled 'Citizen Centered Health and Lifestyle Management via Interactive TV: The PANACEIA Health System (**PANACEIA-iTV**)', funded by the E.C. (Specific Targeted Research Project - STREP)

- Duties: Research, design and development
- Participated with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 9/2001 – 5/2004

IST-1999-13352: Telemedicine project related to home-care service provision to chronic patients via several telecommunication platforms, entitled 'Distance Information Technologies for Home Care: The Citizen Health System (**CHS**)', funded by the E.C. (Specific Targeted Research Project - STREP)

- Duties: Research, design and development
- Participated with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 10/2000 – 6/2003

ISTORAMA – Content-based Image Search in the Internet: Project funded by the Greek Secretary of Research and Technology

- Duties: Research and development
- Participated with: CERTH-ITI
- Duration: 9/2000 – 10/2000

Ε.Π.Ε.Α.Ε.Κ. – ΠΡΟ.ΜΕ.Σ.Ι.Π.: Program for Postgraduate Studies under 3.3 direction of the Greek Ministry of Education entitled 'Program for Postgraduate Studies in Medical Informatics'

- Duties: Educational software development and technical support
- Participated with: Lab of Medical Informatics, Faculty of Medicine, A.U.Th.
- Duration: 1/1999 – 4/2000

Integrated Framework for Application of New Technologies in Small and Medium Enterprises in Central Macedonia and Thessaly: Project funded in the context of the "ADAPT" E.U. initiative

- Duties: Software development
- Participated with: Information Processing Lab, Electrical and Computer Engineering Department, Faculty of Engineering, A.U.Th.
- Duration: 10/1998 – 3/1999

TEACHING EXPERIENCE

Graduate Courses:

- Erasmus Mundus MSc Program on Data Mining & Knowledge Management (DMKM), Université Pierre et Marie Curie (UPMC), "eHealth" course:
 - **Invited Lectures** on "Pervasive and Mobile Computing Technologies and their Application in Personalized Healthcare, Well-being and Independent Living" (2013-15, Paris)
- MSc Program in Engineering of Pervasive Computing Systems, Hellenic Open University:
 - **Adjunct Lecturer** in "Ubiquitous and Global Computing Systems (SDY51)", 1st year course (2011-13, 2016-17)
 - **Thesis supervisor** (2014-now)
- MSc Program in Medical Informatics, A.U.Th (2000-now):
 - **Associate Lecturer** in "Advanced Techniques for Medical Information Management", 2nd year course (2007-now)
 - **Teaching Assistant** in "Scientific and Programming Techniques", 1st year course (2000-05)
- MSc Program in Medical Research Technology, A.U.Th (2000-01):
 - Teaching Assistant in "Applied Mathematics", 1st year course (2000-01)

Undergraduate Courses:

- **Adjunct Lecturer**, Department of Informatics & Telecommunications Engineering, University of Western Macedonia (2008-2012):
 - "Mobile Computing Systems", 5th year course (2009-10, 2011-12)
 - "Service-oriented Architectures", 4th year course (2011-12)
 - "Design and Analysis of Information Systems", 4th year course (2011-12)
 - "Programming Languages", 4th year course (2008-11)
 - "Logical and Functional Programming", 4th year course (2009-10)
- **Adjunct Lecturer**, Department of Electrical & Computer Engineering, Faculty of Engineering, A.U.Th (2007-2008):
 - "Programming Techniques", 2nd year course (2007-08)
 - "Structured Programming", 1st year course (2007-08)

- **Laboratory Instructor**, Department of Informatics, Technological & Educational Institute of Thessaloniki (2002-2005 & 2006-2008):
 - "Data Structures"
 - "Web Programming"
 - "Introduction to Computer Science"
 - "Programming Techniques"
 - "Database Systems I and II"

Diploma Theses Supervision/Support:

Postgraduate Level:

- Crystallia Papaioannou, "", in progress (M.Sc. Program in Medical Informatics, A.U.Th.)
- Evaggelos Chandakas, "A Web services framework exploiting open, linked and semantically-enriched environmental data for eHealth applications", in progress (M.Sc. Program in Medical Informatics, A.U.Th.)
- Nikos Georgalis, "Design and Development of a Personal Health Record application using Ubiquitous Computing Technologies", in progress (M.Sc. Program in Engineering of Pervasive Computing Systems, Hellenic Open University)
- Polizois Dagaris, "Exploiting Pervasive Computing Systems for Improving the Quality of Life of the Elderly: Theoretical Background and Prototype System", in progress (M.Sc. Program in Engineering of Pervasive Computing Systems, Hellenic Open University)
- Panagiotis Theodoropoulos, "Design and Development of Personalized Location-based Services with Pervasive Computing Technologies: Applications in Monitoring and Surveillance of Elderly and Children", 2015 (M.Sc. Program in Engineering of Pervasive Computing Systems, Hellenic Open University)
- Pantelis Natsiavas, "A Platform Enabling Extraction of Semantic Information from Free-text for the Identification of Adverse Drug Reactions", 2014 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Nicos Mperedimas, "An Integrated Platform for Knowledge Management and Development of a Computerized Clinical Decision Support System for Adverse Drug Event Prevention", 2013 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Grigorios Cheimariotis, "Automatic Segmentation of OCT Image Sequences and 3D Reconstruction of Coronary Arteries", 2013 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Ioannis Moulos, "Location-based Personalized Healthcare Service Delivery via Mobile Computing and Internet Technologies", 2012 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Maria Farini, "Design and Development of a Knowledge Base for Adverse Drug Event Prevention in Pediatrics", 2012 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Korina Lambridou, "Semantic Knowledge Base and Decision Support System for Managing the Quality of Life of Coronary Artery Disease Patients", 2009 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Kostas Vegoudakis, "Grid Technologies in Biomedicine: Development of User-friendly Interfaces to Access Grid Services", 2008 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Andreas Triantafyllidis, "Personalised Care Aided by a Mobile System and a Wireless Sensor Network", 2007 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Nicos Soumelidis, "Providing Internet-based Medical Services to Citizens via Autonomous Agents and Semantic Web Technologies", 2005 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Giorgos Karpetas, "Automated Boundary Detection of Coronary Arteries in Intravascular Ultrasound (IVUS) Image Sequences", 2004 (M.Sc. Program in Medical Informatics, A.U.Th.)

- Ioannis Zaprani, "An Intelligent Tool for Automated Analysis of the Log Files Recorded in a Medical Contact Centre", 2003 (M.Sc. Program in Medical Informatics, A.U.Th.)
- Andigoni Malousi, "Bioinformatics Algorithms for Molecular Biology", 2002 (M.Sc. Program in Medical Informatics, A.U.Th.)

Undergraduate Level:

- Nicos Makris, "Design and Development of Location-based Services based on User Context Analysis in Mobile Computing Systems", 2013 (Department of Informatics & Telecommunications Engineering, University of Western Macedonia)
- Christos Asaridis, "Design and Development of a Generic Platform for Social Networking Among Patients via Internet and Mobile Computing Technologies", 2011 (Department of Informatics & Telecommunications Engineering, University of Western Macedonia)

FOREIGN LANGUAGES

- English: Excellent Knowledge
- Italian: Fair Knowledge

AWARDS

- Marie Curie Intra-European Fellowship (IEF) in Information Science and Engineering, Call FP7-PEOPLE-2012-IEF (fellowship at INSERM, Paris, France, 2013-2015).
- The following papers have been selected for inclusion in the IMIA Yearbook of Medical Informatics:
 - IMIA Yearbook 2015:
 - **V.G. Koutkias**, P. McNair, V. Kilintzis, K. Skovhus Andersen, J. Niès, J.-C. Sarfati, E. Ammenwerth, E. Chazard, S. Jensen, R. Beuscart, and N. Maglaveras, "From Adverse Drug Event Detection to Prevention: A Novel Clinical Decision Support Framework for Medication Safety", *Methods of Information in Medicine*, vol. 53, no. 6, 2014, pp. 482-492.
 - IMIA Yearbook 2013:
 - M. Jung, A. Hoerbst, W.O. Hackl, F. Kirrane, D. Borbolla, M.W. Jaspers, M. Oertle, **V. Koutkias**, L. Ferret, P. Massari, K. Lawton, D. Riedmann, S. Darmoni, N. Maglaveras, C. Lovis and E. Ammenwerth, "Attitude of physicians towards automatic alerting in Computerized Physician Order Entry systems: A comparative international survey", *Methods of Information in Medicine*, vol. 52, no. 2, 2013, pp. 99-108.
 - **V. Koutkias**, V. Kilintzis, G. Stalidis, K. Lazou, J. Niès, L. Durand-Texte, P. McNair, R. Beuscart and N. Maglaveras, "Knowledge Engineering for Adverse Drug Event Prevention: On the Design and Development of a Uniform, Contextualized and Sustainable Knowledge-based Framework", *Journal of Biomedical Informatics*, vol. 45, no. 3, 2012, pp. 495-506.
 - IMIA Yearbook 2006:
 - N. Maglaveras, I. Chouvarda, **V.G. Koutkias**, G. Gogou, I. Lekka, D. Goulis, A. Avramidis, C. Karvounis, G. Louridas and A.E. Balas, "The Citizen Health System (CHS): A Modular Medical Contact Center Providing Quality Telemedicine Services", *IEEE Transactions on Information Technology in Biomedicine*, vol. 9, no. 3, September 2005, pp. 353-362.
- Paper selected as **Editor's Choice**:

M. Jung, A. Hoerbst, W.O. Hackl, F. Kirrane, D. Borbolla, M.W. Jaspers, M. Oertle, **V. Koutkias**, L. Ferret, P. Massari, K. Lawton, D. Riedmann, S. Darmoni, N. Maglaveras, C. Lovis and E. Ammenwerth, "Attitude of physicians towards automatic alerting in Computerized Physician Order Entry systems: A comparative international survey", *Methods of Information in Medicine*, vol. 52, no. 2, 2013, pp. 99-108.

- **Best paper** award: A.K. Triantafyllidis, **V.G. Koutkias**, I. Chouvarda and N. Maglaveras, "Mobile Personal Health Systems for Patient Self-management: On Pervasive Information Logging and Sharing within Social Networks", in P. Novais et al. (Eds.): *Ambient Intelligence – Software and Applications, Advances in Intelligent and Soft Computing*, Vol. 92, 2011, pp. 141-148, Springer.
- **Best student paper** award: A.K. Triantafyllidis, **V.G. Koutkias**, I. Chouvarda, G.D. Giaglis and N. Maglaveras, "Personal Health Systems for Patient Self-management: Integration in Pervasive Monitoring Environments", in J. Lin and K.S. Nikita (Eds.): *MobiHealth 2010, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST)*, Vol. 55, 2011, pp. 87-94, Springer.
- **2nd best paper** award: Ι.Σ. Χατζηζήσης, Γ.Δ. Γιαννόγλου, Γ. Σιάνος, Α.Γ. Ζιάκας, **B. Κουτκιάς**, Ι. Κομπατσιάρης, Α. Ματάκος, Ν. Μαγκλαβέρας, Ν. Ζαμπούλης, Γ.Ε. Λουριδάς, Γ.Ε. Παρχαρίδης, "Τρισδιάστατο ενδοστεφανιαίο υπερηχογράφημα (IVUS): Έλεγχος τη αξιοπιστίας και κλινικές εφαρμογές", 3^ο Ετήσιο Συνέδριο Αθηροσκλήρωσης, 15-17 Μαρτίου, Θεσσαλονίκη, 2007.
- **Best paper** award: **V.G. Koutkias**, S.L. Meletiadis and N. Maglaveras, "WAP-based Personalized Healthcare Systems", in *Proc. of the 6th Int. Symposium on Health Information Management Research (iSHIMR)*, pp. 123-135, 24-26 May, 2001, Chalkidiki, Greece
- Awarded by the Technical Chamber of Greece for outstanding performance during the academic period 1997-98 (graduation year)
- Scholarships from Foundation "Panourgias" for the academic years 1995-96, 1996-97
- Scholarships from the Greek Scholarship Foundation (I.K.Y.) for the winter semesters of academic years 1993-94 and 1994-95

SCIENTIFIC INTERESTS

- Knowledge Engineering & Clinical Decision Support Systems
- Medication Safety and Pharmacovigilance with ICT
- Pervasive Healthcare with Mobile & Ubiquitous Computing Technologies
- Multiagent Systems Applied in Healthcare and Bioinformatics
- eHealth systems with emphasis in Telemedicine Systems and Home-care
- Biomedical Knowledge Modeling
- Biomedical/Health Grids and Service-Oriented Computing
- Medical Imaging with emphasis in Cardiology

TECHNICAL ACTIVITIES – SCIENTIFIC MEMBERSHIPS

- **Editorial Work:**

- **Associate Editor** in the **BMC Medical Informatics and Decision Making** journal (<http://www.biomedcentral.com/bmcmedinformdecismak/about/edboard>)
- **Section Editor** in the **IMIA Yearbook of Medical Informatics**:
 - "Decision Support Systems" section, 2015, 2016 and 2017
 - "Big Data - Smart Health Strategies", special theme of 2014
- **Editor-in-chief** of the **CEUR Volume 1528**, "AmI-2015 Adjunct Proceedings: Proceedings of Workshop and Poster Papers of the European Conference on Ambient Intelligence 2015 (AmI-15)", <http://ceur-ws.org/Vol-1528/>
- **Editor-in-chief** of the book "**Patient Safety Informatics**", Studies in Health Technologies and Informatics, Vol. 166, IOS Press, 2011.
- **Co-editor** of the book "**Biological and Medical Data Analysis**", Lecture Notes in Computer Science, vol. 4345, 2006, Springer-Verlag Berlin Heidelberg

- **Scientific Advisory Board Member** in the CHES (Connected Health Early Stage Researcher Support System) Marie Curie Initial Training Network (<http://www.chessitn.eu/>)

- **Invited Speaker** in the ENJECT COST Action Winter School, Nov. 28-30, University of Oulu, Finland, title: "Unstructured Data and Analytics for Patient Safety" (<http://enject.eu/oulu/>)

- **Invited Speaker** in the eHealth FORUM, Oct. 25-26, 2016, Athens, Greece, title: "New Approaches for Drug Safety Surveillance through Biomedical Informatics" (<http://www.ehealthforum.org/>)

- **Invited Expert** in the 1st Workshop of the ITECH EU Project, "HEALTH TECHNOLOGIES: FROM IDEA TO MARKET", Oct. 16-17, 2014, Brussels (<http://www.itech-project.eu/>)

- **Standardization:**
 - Participation in the AccessForAll Working Group aiming to propose an updated version of ISO/IEC 24751 (<http://wiki.fluidproject.org/display/ISO24751/>), 2011-2012

- **Participation in Roadmaps / Whitepapers:**
 - Co-author of the HealthGrid Whitepaper (<http://whitepaper.healthgrid.org/>), 2005

- **Reviewer:**
 - **Research proposals** submitted to:
 - the European Cooperation in Science and Technology (COST) programme (Trans-Domain Proposals - TDP)
 - the Dutch Organization for Health Research and Development (ZonMw), the Netherlands
 - the Research Promotion Foundation of Cyprus
 - **Books:**
 - IMIA 2017 Yearbook of Medical Informatics
 - IMIA 2016 Yearbook of Medical Informatics
 - IMIA 2015 Yearbook of Medical Informatics
 - IMIA 2014 Yearbook of Medical Informatics
 - **Journals** (in alphabetical order):
 - Artificial Intelligence in Medicine (AIIM), Elsevier
 - Applied Clinical Informatics, Schattauer
 - BMC Medical Informatics and Decision Making
 - British Journal of Clinical Pharmacology
 - Canadian Medical Association Journal

- Cognition Technology & Work (CTWO), Springer
- Computer Communications (COMCOM), Elsevier
- Computer Methods and Programs in Biomedicine (CMPB), Elsevier
- Drug Safety, Springer
- Drugs & Aging, Springer
- Expert Opinion on Drug Safety, Taylor & Francis
- Future Internet, MDPI
- IEEE Journal of Biomedical and Health Informatics (JBHI)
- International Journal of Artificial Intelligence Tools (IJAIT), World Scientific Publishing
- International Journal of Information and Communication Technology (IJICT), Inderscience
- International Journal of Telemedicine and Applications (IJTA), Hindawi
- Journal of Ambient Intelligence and Smart Environments (JAISE), IOS Press
- Journal of Biomedical Informatics (JBI), Elsevier
- Journal of Systems Architecture (JSA), Elsevier
- Medical & Biological Engineering & Computing, Springer
- Methods of Information in Medicine, Schattauer (official International Medical Informatics Association (IMIA) journal)
- Pervasive Computing, IEEE
- SpringerPlus, Springer
- Transactions on Biomedical Engineering (TBME), IEEE
- Transactions on Industrial Informatics (TII), IEEE
- Transactions on Information Technology in Biomedicine (TITB), IEEE
- Transactions on Parallel and Distributed Systems (TPDS), IEEE
- **International Conferences/Workshops:**
 - 28th European Medical Informatics Conference - MIE2017, April 24-26, 2017, Manchester, UK
 - Joint 8th Int. Workshop on Knowledge Representation for Health Care (KR4HC'16) and 9th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'16), Sept. 2, 2016, Munich, Germany
 - Workshop on Intelligent Systems and Applications in Healthcare (ISA'HEALTH@CBI), Aug. 29-Sept. 1, 2016, Paris, France
 - 38th Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2016), August 16-20, 2016, Orlando, Florida, USA
 - 13th Int. Conf. on Wearable, Micro & Nano Technologies for Personalized Health, May 29-31, Heraklion, Crete, Greece
 - 1st Intl. Workshop on Health Data Management and Mining (HDMM), held at the 32nd IEEE Int. Conf. on Data Engineering (ICDE), May 16-20, 2016, Helsinki, Finland
 - EFMI STC (Special Topic Conf.) 2016: Transforming Healthcare with the Internet of Things, April 17th-19th, 2016, Paris, France
 - XIV Mediterranean Conf. on Medical and Biological Engineering and Computing, (MEDICON), March 31 - April 2, 2016, Paphos, Cyprus
 - IEEE Int. Conf. on Biomedical and Health Informatics (BHI), Feb. 24-27, 2016, Las Vegas, USA
 - 37th Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2015), August 25-29, 2015, Milan, Italy
 - Int. Joint Workshop on Knowledge Representation for Health Care (KR4HC'15) & Process-oriented Information Systems in Healthcare (ProHealth'15), during the 15th Conf. on Artificial Intelligence in Medicine (AIME'15), June 20, 2015, Pavia, Italy
 - 26th European Medical Informatics Conference - MIE2015, May 27-29, 2015, Madrid, Spain

- AMIA (American Medical Informatics Association) Joint Summits on Translational Science, March 23-25, 2015, San Francisco, USA
- 14th IEEE Int. Conf. on BioInformatics and BioEngineering (BIBE2014), Nov. 10-12, Boca Raton, Florida, USA
- 25th European Medical Informatics Conference - MIE2014, Aug. 31 – Sept. 3, 2014, Istanbul, Turkey
- 36th Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2014), August 26-30, 2014, Chicago, Illinois, USA
- 6th Int. Workshop on Knowledge Representation for Health Care (KR4HC'14), July 21st, Vienna, Austria
- 2nd IEEE Int. Conf. on Biomedical and Health Informatics (BHI), June 1-4, 2014, Valencia, Spain
- 8th Annual Austrian eHealth2014 Conf., May 22-23, 2014, Vienna, Austria
- 1st Workshop on Multi-Agent Systems for Healthcare (MATA), held at the 13th Int. Conf. on Autonomous Agents and Multi-Agent Systems - AAMAS 2014, May, 5-9, 2014, Paris, France
- AMIA (American Medical Informatics Association) Joint Summits on Translational Science, April 7-11, 2014, San Francisco, USA
- 13th IEEE Int. Conf. on BioInformatics and BioEngineering (BIBE2013), Nov. 11-13, 2013, Chania, Greece
- 35th Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2013), July 3 - 7, 2013, Osaka, Japan
- Joint 5th Int. Workshop on Knowledge Representation for Health Care (KR4HC'13) and 6th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'13), June 1st, 2013, Múrcia, Spain
- Joint 4th Int. Workshop on Knowledge Representation for Health Care (KR4HC'12) and 5th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'12), Sept. 3rd, 2012, Tallinn, Estonia
- 34th Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2012), August 28 - September 1, 2012, San Diego, USA
- Int. Conf. on Internet Studies (NETs2012), August 17-19, 2012, Bangkok, Thailand
- 24th Int. Conf. of the European Federation of Medical Informatics (MIE2012), August 26-29, 2012, Pisa, Italy
- 3rd Int. Workshop on Knowledge Representation for Health Care (KR4HC'11), during the 13th Conf. on Artificial Intelligence in Medicine (AIME'11), July 6, 2011, Bled, Slovenia
- AMIA (American Medical Informatics Association) Annual Symposium 2011, Oct. 22-26, Washington, DC, USA
- 33rd Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2011), August 30 - September 3, 2011, Boston, USA
- 23rd Int. Conf. of the European Federation of Medical Informatics (MIE2011), August 28-31, 2011, Oslo, Norway
- 2nd PSIP Workshop: Adverse Drug Events, Human Factors, IT Tools for Patient Medication Safety, May 16-17, 2011, Paris, France
- EFMI STC (Special Topic Conf.) 2011: e-Health Across Borders Without Boundaries, April 14-15, 2011, Laško, Slovenia
- 10th IEEE Int. Conf. on Information Technology and Applications in Biomedicine (ITAB2010), November 3-5, 2010, Corfu, Greece
- 32nd Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2010), August 31 - September 4, 2010, Buenos Aires, Argentina
- AMIA (American Medical Informatics Association) Annual Symposium 2010, Nov. 13-17, Washington, DC, USA

- 12th Mediterranean Conf. on Medical and Biological Engineering and Computing (MEDICON), May 27-30, 2010, Porto Carras, Chalkidiki, Greece
- EFMI STC (Special Topic Conf.) 2010: Seamless care - safe care: The challenges of interoperability and patient safety in health care, June 2-4, 2010, Reykjavík, Iceland
- 1st PSIP Workshop: Adverse Drug Events, Human Factors, IT Tools for Patient Medication Safety, September 24-25, 2009, Belgirate, Lake Maggiore, Italy
- 31st Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2009), September 2-6, 2009, Minneapolis, Minnesota, USA
- 22nd Int. Conf. of the European Federation of Medical Informatics (MIE2009), August 30 - September 2, 2009, Sarajevo, Bosnia and Herzegovina
- 30th Annual Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2008), August 20-24, 2008, Vancouver, Canada
- 29th Annual Int. Conf. of the IEEE Engineering in Medicine and Biology Society (EMBC2007), August 23-26, 2007, Lyon, France
- 7th Int. Symposium on Biological and Medical Data Analysis (ISBMDA2006), December 7-8, 2006, Thessaloniki, Greece
- **PhD Thesis:** Mr. Dario Salvi, "A Model to Develop a Platform for Personalised Health Applications", Escuela Técnica Superior de Ingenieros de Telecomunicación, Universidad Politécnica de Madrid (UPM), 2013 ([External reviewer](#)).
- **Organization of Scientific Conferences/Workshops:**
 - **Workshops Co-Chair:**
 - European Conference on Ambient Intelligence (AmI-15), Athens, Greece, November 11-13, 2015
 - **Workshop Organizer:**
 - V. Koutkias, J. Souvignet, C. Bousquet, M. Yuksel, H.-U. Prokosch, and M.-C. Jaulent, "Leveraging Pharmacovigilance through Knowledge Engineering", 26th European Medical Informatics Conf., MIE2015, May 27-29, 2015, Madrid, Spain
 - "Mobile Systems and Technologies for Patient Safety, Guidance and Empowerment" in the 2nd Int. ICST Conf. on Wireless Mobile Communication and Healthcare - MobiHealth 2011, Oct. 5-7, Kos, Greece
 - Workshop entitled "Patient Safety: Detection and Prevention of Adverse Drug Events", held in the 22nd Int. Conf. of the European Federation of Medical Informatics (MIE2009), August 31, 2009, Sarajevo, Bosnia and Herzegovina
 - **Program Committee Member:**
 - X Workshop on Agents Applied in Health Care (A2HC), held at the 16th Int. Conf. on Autonomous Agents and Multi-Agent Systems - AAMAS 2017 May 8-12, 2017, Sao Paulo, Brazil
 - eHealth FORUM, Oct. 25-26, 2016, Athens, Greece
 - 13th Int. Conf. on Wearable, Micro & Nano Technologies for Personalized Health (pHealth), May 29-31, Heraklion, Crete, Greece
 - Joint 8th Int. Workshop on Knowledge Representation for Health Care (KR4HC'16) and 9th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'16), Sept. 2, 2016, Munich, Germany
 - Workshop on Intelligent Systems and Applications in Healthcare (ISA'HEALTH@CBI), Aug. 29-Sept. 1, 2016, Paris, France
 - 13th Int. Conf. on Wearable, Micro & Nano Technologies for Personalized Health, May 29-31, Heraklion, Crete, Greece
 - Int. Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics (HI-BI-BI), Aug. 19-20, 2016, Davis, CA, USA
 - 1st Intl. Workshop on Health Data Management and Mining (HDMM), held at the 32nd IEEE Int. Conf. on Data Engineering (ICDE), May 16-20, 2016, Helsinki, Finland

- XIV Mediterranean Conf. on Medical and Biological Engineering and Computing, (MEDICON), March 31 - April 2, 2016, Paphos, Cyprus
- Int. Joint Workshop on Knowledge Representation for Health Care (KR4HC'15) & Process-oriented Information Systems in Healthcare (ProHealth'15), during the 15th Conf. on Artificial Intelligence in Medicine (AIME'15), June 20, 2015, Pavia, Italy
- IX Workshop on Agents Applied in Health Care (A2HC), held at the 14th Int. Conf. on Autonomous Agents and Multi-Agent Systems - AAMAS 2015 May 4-8, 2015, Istanbul, Turkey
- Int. Symposium on Network Enabled Health Informatics, Biomedicine and Bioinformatics (HI-BI-BI), Aug. 26-27, 2015, Paris, France
- 14th IEEE Int. Conf. on BioInformatics and BioEngineering (BIBE2014), Nov. 10-12, Boca Raton, Florida, USA
- 6th Int. Workshop on Knowledge Representation for Health Care (KR4HC'14), July 21st, Vienna, Austria
- 1st Workshop on Multi-Agent Systems for Healthcare (MATA), held at the 13th Int. Conf. on Autonomous Agents and Multi-Agent Systems - AAMAS 2014, May, 5-9, 2014, Paris, France
- 13th IEEE Int. Conf. on BioInformatics and BioEngineering (BIBE2013), Nov. 11-13, 2013, Chania, Greece
- Joint 5th Int. Workshop on Knowledge Representation for Health Care (KR4HC'13) and 6th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'13), June 1st, 2013, Murcia, Spain
- Joint 4th Int. Workshop on Knowledge Representation for Health Care (KR4HC'12) and 5th Int. Workshop on Process-oriented Information Systems in Healthcare (ProHealth'12), Sept. 3rd, 2012, Tallinn, Estonia
- 3rd Int. Workshop on Knowledge Representation for Health Care (KR4HC'11), during the 13th Conf. on Artificial Intelligence in Medicine (AIME'11), July 6, 2011, Bled, Slovenia
- 10th IEEE Int. Conf. on Information Technology and Applications in Biomedicine (ITAB2010), November 3-5, 2010, Corfu, Greece
- 12th Mediterranean Conf. on Medical and Biological Engineering and Computing (MEDICON), May 27-30, 2010, Porto Carras, Chalkidiki, Greece
- **Organizing Committee Member:**
 - 4th Personalized Health Conf. (pHealth2007), June 20-22, 2007, Porto Carras, Chalkidiki, Greece
- **Steering Committee Member:**
 - 7th Int. Symposium on Biological and Medical Data Analysis (ISBMDA2006), December 7-8, 2006, Thessaloniki, Greece
- **Bursary Committee Member:**
 - 28th European Medical Informatics Conference - MIE2017, April 24-26, 2017, Manchester, UK
- **Chairman in Conference Sessions:**
 - "Methods and Technologies for Developing Patient Safety Systems", 2nd PSIP Workshop: Adverse Drug Events, Human Factors, IT Tools for Patient Medication Safety, May 16-17, 2011, Paris, France
 - "Synthesis WG/Round Table", 2nd PSIP Workshop: Adverse Drug Events, Human Factors, IT Tools for Patient Medication Safety, May 16-17, 2011, Paris, France
 - "Mobile Devices and Wireless Technologies for Patient Monitoring", in Int. ICST Conf. on Wireless Mobile Communication and Healthcare - MobiHealth 2010, Oct. 18-20, Ayia Napa, Cyprus

- "Semantics and Information Modelling" in the 7th Int. Symposium on Biological and Medical Data Analysis (ISBMDA2006), December 7-8, 2006, Thessaloniki, Greece
- "ICT for pHealth" in the 4th Personalized Health Conference (pHealth2007), June 20-22, 2007, Porto Carras, Chalkidiki, Greece
- **Scientific Memberships:**
 - Marie Curie Alumni Association (MCAA)
 - International Society of Pharmacovigilance (ISoP)
 - American Medical Informatics Association (AMIA)
 - Institute of Electrical and Electronic Engineers (IEEE)
 - Greek Association of Computer & Communications Engineers
 - Technical Chamber of Greece (TEE)

PUBLICATIONS

BOOKS

I. Zacharakis, A. Komninos and **V. Koutkias**, "Developing Pervasive Computing Systems Taking into Account Human and Societal Issues", Hellenic Open University (in Greek – in press).

EDITED BOOKS/VOLUMES

1. **V. Koutkias**, A. Komninos, J.V. Khan and P. Nicopolitidis, "AmI-2015 Adjunct Proceedings: Proceedings of Workshop and Poster Papers of the European Conference on Ambient Intelligence 2015 (AmI-15)", CEUR, Vol. 1528, 2015, <http://ceur-ws.org/Vol-1528/>.
 - a. **V.G. Koutkias**, J. Niès, S. Jensen, N. Maglaveras and R. Beuscart, "Patient Safety Informatics", Studies in Health Technologies and Informatics, Vol. 166, IOS Press, 2011.
2. N. Maglaveras, I. Chouvarda, **V. Koutkias** and R. Brause, "Biological and Medical Data Analysis", 7th Int. Symposium, ISBMDA 2006, Thessaloniki, Greece, December 7-8, 2006, Lecture Notes in Computer Science 4345, 2006, Springer-Verlag Berlin Heidelberg.

PEER-REVIEWED PAPERS IN INTERNATIONAL JOURNALS

1. **V. Koutkias**, A. Lillo-Le Louët and M.-C. Jaulent, "Exploiting Heterogeneous Publicly Available Data Sources for Drug Safety Surveillance: Computational Framework and Case Studies", Expert Opinion on Drug Safety, vol. 17, no. 2, 2016, pp. 113-124, <http://dx.doi.org/10.1080/14740338.2017.1257604>.
2. R.D. Boyce, E.A. Voss, V. Huser, L. Evans, C. Reich, J.D. Duke, N.P. Tatonetti, T. Lorberbaum, M. Dumontier, M. Hauben, M. Wallberg, L. Peng, S. Dempster, Y. He, A.G. Sena, **V. Koutkias**, P. Natsiavas, P.B. Ryan (The Knowledge Base workgroup of the Observational Health Data Sciences and Informatics (OHDSI) collaborative), "Large-scale adverse effects related to treatment evidence standardization (LAERTES): an open scalable system for linking pharmacovigilance evidence sources with clinical data", Journal of Biomedical Semantics, 8:11, 2017, <http://dx.doi.org/10.1186/s13326-017-0115-3>.
3. A. Caron, E. Chazard, J. Muller, R. Perichon, L. Ferret, **V. Koutkias**, R. Beuscart, J.-B. Beuscart and G. Ficheur, "IT-CARES: an interactive tool for case-crossover analyses of electronic medical records for patient safety", Journal of the American Medical Informatics Association, vol. 24, no. 2, 2017, pp. 323-330, <http://dx.doi.org/10.1093/jamia/ocw132>.
4. A.K. Triantafyllidis, **V.G. Koutkias**, I. Chouvarda, I. Adami, A. Kouroubali, and N. Maglaveras, "Framework of Sensor-based Monitoring for Pervasive Patient Care", IET Healthcare Technology Letters, vol. 3, no. 3, 2016, pp. 153-158, <http://dx.doi.org/10.1049/htl.2016.0017>.

5. Y.S. Chatzizisis, K. Toutouzas, A.A. Giannopoulos, M. Riga, A.P. Antoniadis, Y. Fujinom, D. Mitsouras, **V.G. Koutkias**, G. Cheimariotis, C. Doulaverakis, I. Tsampoulatidis, I. Chouvarda, I. Kompatsiaris, S. Nakamura, F. Rybicki, N. Maglaveras, D. Tousoulis, H. Karvounis and G.D. Giannoglou, "Association of Global and Local Low Endothelial Shear Stress with High-risk Plaque Using Intracoronary 3D Optical Coherence Tomography: Introduction of "Shear Stress Score"", *European Heart Journal - Cardiovascular Imaging*, <http://dx.doi.org/10.1093/ehjci/jew134> [**1 citation**].
6. A.K. Triantafyllidis, C. Velardo, D. Salvi, S. Ahmar Shah, **V.G. Koutkias** and L. Tarassenko, "A Survey of Mobile Phone Sensing, Self-reporting and Social Sharing for Pervasive Healthcare", *IEEE Journal of Biomedical and Health Informatics*, vol. 21, no. 1, 2017, pp. 218-227, <http://dx.doi.org/10.1109/JBHI.2015.2483902> [**10 citations**].
7. **V. Koutkias** and M.-C. Jaulent, "A Multiagent System for Integrated Detection of Pharmacovigilance Signals", *Journal of Medical Systems, Special Issue on Agent-Empowered HealthCare Systems*, February 2016, vol. 40, no. 2, Article: 37, <http://dx.doi.org/10.1007/s10916-015-0378-0>.
8. **V. Koutkias**, N. Kaklanis, K. Votis, D. Tzovaras and N. Maglaveras, "An Integrated Semantic Framework Supporting Universal Accessibility to ICT", *Universal Access in the Information Society*, vol. 15, no. 1, 2016, pp. 49-62, <http://dx.doi.org/10.1007/s10209-014-0372-1> [**3 citations**].
9. **V. Koutkias**, A. Lillo-Le Louët and M.-C. Jaulent, "Exploiting Heterogeneous Open Data for Pharmacovigilance", *Drug Safety*, vol. 38, no. 10, 2015, pp. 950-951.
10. **V.G. Koutkias** and M.-C. Jaulent, "Computational Approaches for Pharmacovigilance Signal Detection: Toward Integrated and Semantically-enriched Frameworks", *Drug Safety*, vol. 38, no. 3, 2015, pp. 219-232, <http://dx.doi.org/10.1007/s40264-015-0278-8> [**4 citations**].
11. K. Toutouzas, Y.S. Chatzizisis, M. Riga, A. Giannopoulos, A.P. Antoniadis, S. Tu, Y. Fujinom, D. Mitsouras, C. Doulaverakis, I. Tsampoulatidis, **V.G. Koutkias**, K. Bouki, Y. Li, I. Chouvarda, G. Cheimariotis, N. Maglaveras, I. Kompatsiaris, S. Nakamura, J.H.C. Reiber, F. Rybicki, C. Karvounis, C. Stefanadis, D. Tousoulis, and G.D. Giannoglou, "Accurate and Reproducible Reconstruction of Coronary Arteries and Endothelial Shear Stress Calculation Using 3D OCT: Comparative Study to 3D IVUS and 3D QCA", *Atherosclerosis*, vol. 240, no. 2, 2015, pp. 510-519, <http://dx.doi.org/10.1016/j.atherosclerosis.2015.04.011> [**7 citations**].
12. **V.G. Koutkias**, P. McNair, V. Kilintzis, K. Skovhus Andersen, J. Niès, J.-C. Sarfati, E. Ammenwerth, E. Chazard, S. Jensen, R. Beuscart, and N. Maglaveras, "From Adverse Drug Event Detection to Prevention: A Novel Clinical Decision Support Framework for Medication Safety", *Methods of Information in Medicine*, vol. 53, no. 6, 2014, pp. 482-492, <https://www.schattauer.de/index.php?id=5236&mid=23678> [**9 citations, selected as best paper in section "Health and Clinical Management" of the IMIA Yearbook 2015**].
13. Y.S. Chatzizisis, **V.G. Koutkias**¹, K. Toutouzas, A. Giannopoulos, I. Chouvarda, M. Riga, A.P. Antoniadis, G. Cheimariotis, C. Doulaverakis, I. Tsampoulatidis, K. Bouki, I. Kompatsiaris, C. Stefanadis, N. Maglaveras, G.D. Giannoglou, "Clinical validation of an algorithm for rapid and accurate automated segmentation of intracoronary optical coherence tomography images", *International Journal of Cardiology*, vol. 172, no. 3, 2014, pp. 568-580, <http://dx.doi.org/10.1016/j.ijcard.2014.01.071> [**5 citations**].
14. **V. Koutkias**, E. Bekiaris, N. Maglaveras and M. Gemou, "Towards an Ontology-based Model for User Profile Representation in a Cloud Infrastructure", *International Journal of Electronic Commerce Studies*, vol. 4, no. 2, 2014, pp. 377-382, <http://dx.doi.org/10.7903/ijecs.1042> [**2 citations**].
15. S. Bernonville, B. Guillot, H.G. Pedersen, **V. Koutkias** and R. Beuscart, "The PSIP project for Adverse Drug Events prevention", *IRBM*, vol. 34, no. 4-5, 2013, pp. 263-266,

¹ First three authors contributed equally.

- <http://dx.doi.org/10.1016/j.irbm.2013.09.001>.
16. A.K. Triantafyllidis, **V.G. Koutkias**, I. Chouvarda and N. Maglaveras, "A Pervasive Health System Integrating Patient Monitoring, Status Logging and Social Sharing", IEEE Journal of Biomedical and Health Informatics, vol. 17, no. 1, 2013, pp. 30-37, <http://dx.doi.org/10.1109/TITB.2012.2227269> [35 citations].
 17. M. Jung, A. Hoerbst, W.O. Hackl, F. Kirrane, D. Borbolla, M.W. Jaspers, M. Oertle, **V. Koutkias**, L. Ferret, P. Massari, K. Lawton, D. Riedmann, S. Darmoni, N. Maglaveras, C. Lovis and E. Ammenwerth, "Attitude of physicians towards automatic alerting in Computerized Physician Order Entry systems: A comparative international survey", Methods of Information in Medicine, vol. 52, no. 2, 2013, pp. 99-108, <http://www.schattauer.de/index.php?id=5236&mid=19022&L=1> [19 citations – **Editor's Choice & selected as best paper in section "Evidence-based Health Informatics" of the IMIA Yearbook 2013**].
 18. K. Lazou, M. Farini, **V. Koutkias**, V. Drossou, N. Maglaveras and N. Bassiliades, "Adverse Drug Event Prevention in Neonatal: A Rule-based Approach", International Journal on Biomedicine and Healthcare, vol. 1, no. 1, 2013, p. 15.
 19. **V. Koutkias**, V. Kilintzis, G. Stalidis, K. Lazou, J. Niès, L. Durand-Texte, P. McNair, R. Beuscart and N. Maglaveras, "Knowledge Engineering for Adverse Drug Event Prevention: On the Design and Development of a Uniform, Contextualized and Sustainable Knowledge-based Framework", Journal of Biomedical Informatics, vol. 45, no. 3, 2012, pp. 495-506, <http://dx.doi.org/10.1016/j.jbi.2012.01.007> [10 citations – **selected as best paper in section "Knowledge Representation and Management" of the IMIA Yearbook 2013**].
 20. **V.G. Koutkias**, I. Chouvarda, A. Triantafyllidis, A. Malousi, G.D. Giaglis, and N. Maglaveras, "A Personalized Framework for Medication Treatment Management in Chronic Care", IEEE Transactions on Information Technology in Biomedicine, vol. 14, no. 2, 2010, pp. 464-472, <http://dx.doi.org/10.1109/TITB.2009.2036367> [47 citations].
 21. A. Malousi, I. Chouvarda, **V. Koutkias**, S. Kouidou and N. Maglaveras, "SpliceIT: A Hybrid Method for Splice Signal Identification based on Probabilistic and Biological Inference", Journal of Biomedical Informatics, vol. 43, no. 2, 2010, pp. 208-217, <http://dx.doi.org/10.1016/j.jbi.2009.09.004> [5 citations].
 22. T. Agorastos, **V. Koutkias**, M. Falelakis, I. Lekka, T. Mikos, A. Delopoulos, P.A. Mitkas, A. Tantsis, S. Weyers, P. Coorevits, A.M. Kaufmann, R. Kurzeja and N. Maglaveras, "Semantic Integration of Cervical Cancer Data Repositories to Facilitate Multicenter Association Studies: The ASSIST Approach", Cancer Informatics, Special Issue on Semantic Technologies, vol. 8, 2009, pp. 31-44, http://www.la-press.com/redirect_file.php?fileId=1808&filename=CIN-8-Koutkias-et-al&fileType=pdf [5 citations].
 23. A. Triantafyllidis, **V. Koutkias**, I. Chouvarda and N. Maglaveras, "An Open and Reconfigurable Wireless Sensor Network for Pervasive Health Monitoring", Methods of Information in Medicine, vol. 47, no. 3, 2008, pp. 229-234, <http://dx.doi.org/10.3414/ME9115> [24 citations].
 24. C. Bratsas, **V. Koutkias**, E. Kaimakamis, P. Bamidis, G.I. Pangalos and N. Maglaveras, "KnowBaSICS-M: An Ontology-based System for Semantic Management of Medical Problems and Computerised Algorithmic Solutions", Computer Methods and Programs in Biomedicine, vol. 88, no. 1, 2007, pp. 39-51, <http://dx.doi.org/10.1016/j.cmpb.2007.06.005> [20 citations].
 25. G.D. Giannoglou, Y.S. Chatzizisis, **V. Koutkias**, I. Kompatsiaris, M. Papadogiorgaki, V. Mezaris, E. Parissi, P. Diamantopoulos, M.G. Strintzis, N. Maglaveras, G.E. Parcharidis and G.E. Louridas. "A Novel Active Contour Model for Fully Automated Segmentation of Intravascular Ultrasound Images: In-Vivo Validation in Human Coronary Arteries", Computers in Biology and Medicine, vol. 37, no. 9, 2007, pp. 1292-1302, <http://dx.doi.org/10.1016/j.compbiomed.2006.12.003> [49 citations].
 26. **V.G. Koutkias**, A. Malousi and N. Maglaveras, "Engineering Agent-Mediated Integration

- of Bioinformatics Analysis Tools”, Multiagent and Grid Systems, Special Issue on Multiagent Systems for Medicine, Computational Biology, and Bioinformatics, vol. 3, no. 2, 2007, pp. 245-258, <http://dx.doi.org/10.3233/MGS-2007-3207> [2 citations].
27. G.D. Giannoglou, Y.S. Chatzizisis, G. Sianos, D. Tsikaderis, A. Matakos, **V. Koutkias**, P. Diamantopoulos, N. Maglaveras, G.E. Parcharidis and G.E. Louridas, “Integration of Multi-Modality Imaging for Accurate 3D Reconstruction of Human Coronary Arteries in Vivo”, Nuclear Instruments and Methods in Physics Research Section A, vol. 569, no. 2, December 2006, pp. 310-313, <http://dx.doi.org/10.1016/j.nima.2006.08.057> [3 citations].
 28. G.D. Giannoglou, Y.S. Chatzizisis, G. Sianos, D. Tsikaderis, A. Matakos, **V. Koutkias**, P. Diamantopoulos, N. Maglaveras, G.E. Parcharidis and G.E. Louridas, “In Vivo Validation of Spatially Correct Three-Dimensional Reconstruction of Human Coronary Arteries by Integrating Intravascular Ultrasound and Biplane Angiography”, Coronary Artery Disease, vol. 17, no. 6, September 2006, pp. 533-543 [12 citations].
 29. A. Malousi, **V. Koutkias** and N. Maglaveras, “Managing Evidence Derived from Multiple Gene Finding Resources via an XML-based Integration Architecture”, Journal of Integrative Bioinformatics, 0016, 2005, http://journal.imbio.de/index.php?paper_id=16.
 30. **V.G. Koutkias**, I. Chouvarda and N. Maglaveras, “A Multiagent System Enhancing Home-Care Health Services for Chronic Disease Management”, IEEE Transactions on Information Technology in Biomedicine, vol. 9, no. 4, December 2005, pp. 528-537, <http://dx.doi.org/10.1109/TITB.2005.847511> [66 citations].
 31. N. Maglaveras, I. Chouvarda, **V.G. Koutkias**, G. Gogou, I. Lekka, D. Goulis, A. Avramidis, C. Karvounis, G. Louridas and A.E. Balas, “The Citizen Health System (CHS): A Modular Medical Contact Center Providing Quality Telemedicine Services”, IEEE Transactions on Information Technology in Biomedicine, vol. 9, no. 3, September 2005, pp. 353-362, <http://dx.doi.org/10.1109/TITB.2005.854511> [55 citations – selected as best paper in the IMIA Yearbook 2006].
 32. G.D. Giannoglou, I.S. Hatzizisis, **V.G. Koutkias**, I. Kompatsiaris, P. Diamantopoulos, N. Maglaveras, G.E. Parcharidis and G.E. Louridas, “Validation of a New Semi-automatic Method for Lumen and Media-adventitia Borders Detection in Sequential Intravascular Ultrasound Images”, European Heart Journal, vol. 26 (Suppl. 1), 2005, p. 539.
 33. N. Maglaveras, I. Chouvarda, **V. Koutkias**, S. Meletiadis, K. Haris and A.E. Balas, “Information Technology can Enhance Quality Regional Health Delivery”, Methods of Information in Medicine, Special Issue on Regional Health Information Networks and Telematics Applications in a User Friendly Information Society, vol. 41, 2002, pp. 393-400 [25 citations].
 34. N. Maglaveras, **V. Koutkias**, I. Chouvarda, D.G. Goulis, A. Avramides, D. Adamidis, G. Louridas and A.E. Balas, “Home Care Delivery through the Mobile Telecommunications Platform: The Citizen Health System (CHS) Perspective”, International Journal of Medical Informatics, vol. 68, no. 1-3, 2002, pp. 99-111, [http://dx.doi.org/10.1016/S1386-5056\(02\)00069-2](http://dx.doi.org/10.1016/S1386-5056(02)00069-2) [91 citations].
 35. **V.G. Koutkias**, S.L. Meletiadis and N. Maglaveras, “WAP-based Personalized Healthcare Systems”, Health Informatics Journal, vol. 7 no. 3/4, 2001, pp. 183-189, <http://dx.doi.org/10.1177/146045820100700312> [4 citations].
 36. I. Kompatsiaris, D. Tzovaras, **V. Koutkias** and M. Strintzis, “Deformable Boundary Detection of Stents in Angiographic Images”, IEEE Transactions on Medical Imaging, 2000, vol. 19, no. 6, June 2000, pp. 652-662, <http://dx.doi.org/10.1109/42.870673> [49 citations].

EDITORIALS/PREFACES

1. **V.G. Koutkias**, J. Niès, S. Jensen, N. Maglaveras and R. Beuscart, “Preface”, in Patient Safety Informatics, Studies in Health Technologies and Informatics, Vol. 166, pp. v-vi, IOS Press, 2011.

2. N. Maglaveras, I. Chouvarda, **V. Koutkias** and R. Brause, "Preface", in *Biological and Medical Data Analysis, 7th Int. Symposium, ISBMDA 2006*, Thessaloniki, Greece, December 7-8, 2006, *Lecture Notes in Computer Science 4345*, 2006, Springer-Verlag Berlin Heidelberg.

PEER-REVIEWED PAPERS IN BOOKS AND BOOK SERIES

1. P. Natsiavas, N. Maglaveras and **V. Koutkias**, "A Public Health Surveillance Platform Exploiting Free-text Sources via Natural Language Processing and Linked Data: Application in Adverse Drug Reaction Signal Detection using PubMed and Twitter", In: Riaño D., Lenz R., Reichert M. (Eds.), *Knowledge Representation for Health Care. KR4HC 2016, ProHealth 2016. Lecture Notes in Computer Science*, vol. 10096, pp. 51-67, Springer, 2017.
2. C. Doulaverakis, **V. Koutkias**, G. Antoniou and I. Kompatsiaris, "Modelling and execution of clinical practice guidelines using ontologies and SPARQL-based inference", In: Riaño D., Lenz R., Reichert M. (Eds.), *Knowledge Representation for Health Care. KR4HC 2016, ProHealth 2016. Lecture Notes in Computer Science*, vol. 10096, pp. 90-108, Springer, 2017.
3. **V. Koutkias** and J. Bouaud, "Computerized Clinical Decision Support: contributions from 2015", *Yearb Med Inform.* 2016;11:170-177. <http://dx.doi.org/10.15265/IY-2016-055>
4. N. Maglaveras, V. Kilintzis, **V. Koutkias** and I. Chouvarda, "Integrated Care and Connected Health Approaches Leveraging Personalised Health through Big Data Analytics", *Studies in Health Technology and Informatics*, Vol. 224, pp. 117-122, IOS Press, 2016 [**2 citations**].
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6. **V. Koutkias** and F. Thiessard, "Big Data - Smart Health Strategies: Findings from the Yearbook 2014 Special Theme", *Yearb Med Inform.* 2014;9:48-51. doi: 10.15265/IY-2014-0031 [**2 citations**].
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8. **V. Koutkias**, V. Kilintzis, G. Stalidis, K. Lazou, J. Niès, L. Durand-Texte, P. McNair, R. Beuscart and N. Maglaveras, "Knowledge Engineering for Adverse Drug Event Prevention: On the Design and Development of a Uniform, Contextualized and Sustainable Knowledge-based Framework", *IMIA Yearbook of Medical Informatics 2013*, International Medical Informatics Association, p. 157.
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PEER-REVIEWED PAPERS IN INTERNATIONAL CONFERENCES/WORKSHOPS

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PEER-REVIEWED NATIONAL CONFERENCES

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