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PUBLICATIONS

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PhD thesis

Potamias G. (1992). AN EXPERT SYSTEM FOR CHEMICAL CATALYSTS SELECTION – ESCAT: A STUDY ON KNOWLEDGE ACQUISITION, REPRESENTATION AND REASONING. Dept. of Mathematics, School of Natural Sciences, University of patras, Patras, Greece.

Books (chaptres) & Proceedings

- B.1.** G. Potamias and V. Moustakis (eds) BMMINT: BIOMEDICAL INFORMATICS AND INTELLIGENT METHODS IN THE SUPPORT OF GENOMIC MEDICINE, AIAI 2009 workshop, April 24, Thessaloniki, Greece <http://www.ics.forth.gr/bmi/BMIINT2009/>; *CEUR Proceedings*, vol. 475, <http://ftp1.de.freebds.org/Publications/CEUR-WS/Vol-475/>
- B.2.** Koumakis L., Moustakis V., and **Potamias G.** (2009). WEB SERVICES AUTOMATION. Chapter in M.M. Cunha, E.F. Oliveira, A.J. Tavares and L.G. Ferreira (Eds) *Handbook of Research on Social Dimensions of Semantic Technologies and Web Services*, IGI Global, ISBN:1605666505. <http://www.igi-global.com/reference/details.asp?ID=34405&v=tableOfContents>
- B.3.** G. Antoniou, **G. Potamias**, D. Plexousakis, C. Spyropoulos (eds). (2006). ADVANCES IN ARTIFICIAL INTELLIGENCE. Proceedings *4th Hellenic Conference on Artificial Intelligence*, May 18-20, 2006, Heraklion, Crete. *Lecture Notes in Artificial Intelligence*, 3955, Springer-Verlag. <http://www.springerlink.com/content/t00004770613/?p=482b037fc3c24a459324c10f9526aec2&pi=0>
- B.4.** **G. Potamias**, V. Moustakis, M. van Someren (eds) (2000). MACHINE LEARNING IN THE NEW INFORMATION AGE (MLNIA), ECML/MLNet workshop, Barcelona, Spain. <http://www.ics.forth.gr/~potamias/mlnia.html>
- B.5.** Metakides G., and Nerode, A. (1996). PRINCIPLES OF LOGIC AND LOGIC PROGRAMMING. With contributions by A. Sinachopoulos and **George Potamias**. Studies in Computer Science and Artificial Intelligence, 13, North-Holland Publishing Co., Amsterdam. <http://www.math.cornell.edu/~anil/anbib.html>
- B.6.** G. Metakides. (1992). Prolog. From Logic to Logic Programming. With contributions by **George Potamias** in the writing of the Prolog chapter, Kardamitsa, Athens, Greece.

Journals & Periodicals

Peer-reviewed; Indexed by: ISI, SCOPUS (SC), GoogleScholar (GS)

- J.1.** De la Iglesia, D., Maojo, V., Chiesa, S., Martin-Sanchez, F., Kern, J., Potamias, G., Crespo, J., Garcia-Remesal, M., Keuchkerian, S., Kulikowski, C., and Mitchell, J.A. (2011). International Efforts in Nanoinformatics Research Applied to Nanomedicine. *Methods Inf Medicine* 49: 1-12.
- J.2.** Sfakianakis, S., Blazantonakis, M., Dimou, I., Zervakis, M., Tsiknakis, M., **Potamias, G.**, Kafetzopoulos, D., and Lowe, D. (2010). Decision support based on genomics: integration of data- and knowledge-driven reasoning. *International Journal of Biomedical Engineering and Technology* 3(3/4): 287-307.
- J.3.** Kern J., Fister K., Petroveckí M., Polasek O., Stevanovic R., Vuletic S., Maojo V., Martin-Sanchez F., **Potamias G.**, de Quiros F.G.B., Gonzalez D., Legre L., and Moustakis V. (2008). Action-grid: International Networking in Grid Computing and Biomedical Informatics. *Acta Informatica Medica (AIM)* 16(3): 156-158.

- J.4.** Kanterakis, A., Kafetzopoulos, D., Moustakis, D., and **Potamias, G.** (2008). Mining Gene Expression Profiles and Gene Regulatory Networks: Identification of Phenotype-Specific Molecular Mechanisms. *Lecture Notes in Artificial Intelligence*, 5138: 97-109.
- J.5.** Tsiknakis, M., Brochhausen, M., Nabrzyski, J., Pucacki, J., Sfakianakis, S., **Potamias, G.**, Desmedt, C., and Kafetzopoulos, D. (2008). A Semantic Grid Infrastructure Enabling Integrated Access and Analysis of Multilevel Biomedical Data in Support of Post-Genomic Clinical Trials on Cancer. *IEEE Transactions on Information Technology in Biomedicine* 12(2): 205-217. [PubMed ID: 18348950].
- J.6.** **Potamias, G.**, and Kanterakis, A. (2007). Feature Selection for the Promoter Recognition and Prediction Problem. *International Journal of Data Warehousing and Mining* 3(3): 60-78.
- J.7.** Analyti, A., Kondylakis, H., Manakanatas, D., Kalaitzakis, M., Plexousakis, D., and **Potamias, G.** (2006). Integrating Clinical and Genomic Information through the PrognoChip Mediator. *Lecture Notes in Bioinformatics*, 4345: 250-261.
- J.8.** **Potamias, G.**, May, M., and Ruping, S. (2006). Grid-based Knowledge Discovery in Clinico-Genomic Data. *Lecture Notes in Bioinformatics*, 4345: 219-230.
- J.9.** Gonianakis, M., Neonakis, I., Gonianakis, I., Baritaki, M., Kypriotakis, Z., **Potamias, G.**, Bouros, D., and Kontou-Fili, K. (2006). A 10-year aerobiological study (1994-2003) in the Mediterranean island of Crete, Greece: grasses and other weeds, aerobiological data, and botanical and clinical correlations. *Allergy Asthma Proc.* 27(5): 363-370.
- J.10.** Gonianakis, M.I., Neonakis, I.K., Gonianakis, I.M., Baritaki, M.A., Bouros, D., **Potamias, G.**, Kontou-Fili, K.S. (2006). Mold allergy in the Mediterranean Island of Crete, Greece: a 10-year volumetric, aerobiological study with dermal sensitization correlations. *Allergy Asthma Proc.* 27(5): 354-362.
- J.11.** Koumakis, L., Moustakis, V., Kanterakis, A., and **Potamias, G.** (2005). Mining Time Series with MineTime. *Lecture Notes in Artificial Intelligence*, 3955: 158-168.
- J.12.** Antonakaki, D., Kanterakis, A., and **Potamias, G.** (2005). Biomedical Literature Mining for Text Classification and Construction of Gene Networks. *Lecture Notes in Artificial Intelligence*, 3955: 469-473.
- J.13.** **Potamias, G.**, and Kanterakis, A. (2005). Supporting Clinico-Genomic Knowledge Discovery: A Multi-strategy Data Mining Process. *Lecture Notes in Artificial Intelligence*, 3955, 520-524.
- J.14.** **Potamias G.**, Koumakis L., and Moustakis V. (2005). Mining XML Clinical Data: The HealthObs System. *Ingénierie des Systèmes d'Information* 10(1): 59-79.
- J.15.** **Potamias G.** (2004). Knowledgeable Clustering of Microarray Data. *Lecture Notes in Computer Science*, 3337: 491-497.
- J.16.** **Potamias G.**, and Dermon C. (2004). Protein Synthesis Profiling in the Developing Brain: A Graph Theoretic Clustering Approach. *Computer Methods and Programs in Biomedicine* 76(2): 115-129. [PubMed ID: 15451161].
- J.17.** **Potamias G.**, and Moustakis V. (2004). Learning In-Between Concept Descriptions Using Iterative Induction. *Lecture Notes in Artificial Intelligence*, 3025: 164-173.
- J.18.** **Potamias G.**, Koumakis L., and Moustakis V. (2004). Gene Selection via Discretized Gene-Expression Profiles and Greedy Feature-Elimination. *Lecture Notes in Artificial Intelligence*, 3025: 256-266.
- J.19.** **Potamias G.** (2002). Distance and Feature-Based Clustering of Time Series: An Application on Neurophysiology. *Lecture Notes in Computer Science*, 2308: 237-248.

- J.20. Potamias, G.** (2001). Content-Based Similarity Assessment in Multi-segmented Medical Image Data Bases. *Lecture Notes in Computer Science*, 2123: 347-361.
- J.21. Potamias G.** (2001). Adaptive Classification of Web Documents to Users Interests. *Lecture Notes in Computer Science*, 2563: 147-158.
- J.22. Potamias G.** (1999). MICSL: Multiple Iterative Constraint Satisfaction based Learning. *Intelligent Data Analysis* 3(4): 245-265.
- J.23.** Tserpes G., Peristeraki P., **Potamias G.**, and Tsimenides, N. (1999). Species distribution in the southern Aegean Sea based on bottom-trawl surveys. *Aquatic Living Resources* 12: 167-175.
- J.24.** Moustakis V., Blazadonakis M., Marazakis M., and **Potamias G.** (1998). Assessment of Boolean minimization in symbolic empirical learning. *Applied Artificial Intelligence* 12(4): 329-342.
- J.25.** Dzeroski S., **Potamias G.**, Moustakis and V., Charissis G. (1997). Automated Revision of Expert Rules for Treating Acute Abdominal Pain in Children. *Lecture Notes in Computer Science* 1211: 98-109.
- J.26. Potamias G.**, Moustakis V., and Charissis, G. (1997). Interactive Knowledge Base Construction and Maintenance. *Applied Artificial Intelligence*, 11(7-8): 697-717.
- J.27.** Morik K., **Potamias G.**, Moustakis V., and Charissis, G. (1994). Knowledgeable Learning using Mobal: A Medical case Study. *Applied Artificial Intelligence* 8(4): 579-592.

Submitted & In-preparation

- J.28. Potamias, G.**, Kanterakis, A., and Moustakis, V. Induction of Gene-Markers via Recursive Feature Selection: General Settings and the MineGene Approach. *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (in preparation; final editing).
- J.29.** Maojo, V., ... **Potamias, G.**, et al. (2011). Nanoinformatics and Biomedical Informatics: Developing New paths for Nanomedicine (submitted to JAMIA).
- J.30.** Zikopoulos, B., **Potamias G.**, and Dermon C. Cerebral Adrenoceptor profile is associated to the sexual phase of hermaphrodite teleost. (in preparation)

International Conferences

Peer-reviewed; Indexed by: **MedLine/PubMed; SCOPUS (SC), GoogleScholar (GS)**

- C.1. Potamias G.**, Koumakis L., Kanterakis A., and Moustakis V. (2010). Towards the Discovery of Reliable Biomarkers from Gene Expression profiles: An Iterative Constraint Satisfaction Learning Approach. *Lecture Notes in Artificial Intelligence*, 6040: 233-242.
- C.2.** Tsiknakis M., Sfakianakis S., Zacharioudakis G., Koumakis L., Kanterakis A., **Potamias G.**, and Kafetzopoulos D. (2009). A Semantically Aware Platform for the Authoring and Secure Enactment of Bioinformatics Workflows. *Proceedings 31st Annual International IEEE EMBS Conference (EMBC'09)*, pp. 5625-5628, September 2-6 2009, Hilton Minneapolis, Minnesota, USA.
- C.3.** Koumakis L., Moustakis V., Tsiknakis M., Kanterakis A., Kafetzopoulos D., and **Potamias G.** (2009). Supporting Genotype-To-Phenotype Association Studies with Grid-Enabled Knowledge Discovery Workflows. *Proceedings 31st Annual International IEEE EMBS Conference (EMBC'09)*, pp. 6958-6962, September 2-6, 2009, Hilton Minneapolis, Minnesota, USA.

- C.4.** Chiesa, S., de la Iglesia, D., Crespo, J., Martín-Sánchez, F., Kern, J., **Potamias, G.**, and Maojo, V. (2009). European Efforts in Nanoinformatics Research Applied to Nanomedicine. *22nd Congress of the European Federation for Medical Informatics (MIE'09)*, Aug. 30 - Sept. 2 2009, *Studies in Health Technology and Informatics* 150:757-761.
- C.5.** De la Iglesia D., Chiesa S., Kern J., Maojo V., Martín-Sánchez F., **Potamias G.**, Moustakis V., and Mitchell J.A. (2009). Nanoinformatics: new challenges for biomedical informatics at the nano level. *22nd Congress of the European Federation for Medical Informatics (MIE'09)*, Aug. 30 - Sept. 2 2009, *Studies in Health Technology and Informatics* 150:987-991.
- C.6.** Kanterakis, A., Moustakis, V., Kafetzopoulos, D., and **Potamias, G.** (2009). Revealing Disease Mechanisms via Coupling Molecular Pathways Scaffolds and Microarrays: A Study on the Wilm's Tumor Disease. *BMIINT (Biomedical Informatics & Intelligent Methods in the Support of Genomic Medicine) AIAI 2009 workshop, CEUR Proceedings*, vol. 475, pp. 85-96, 24 April 2009, Thessaloniki, Greece.
- C.7.** Koumakis, L., Sfakianakis, S., Moustakis, V., and **Potamias, G.** (2009). Discovery of Genotype-to-Phenotype Associations: A Grid-enabled Scientific Workflow Setting. *BMIINT (Biomedical Informatics & Intelligent Methods in the Support of Genomic Medicine) AIAI 2009 workshop, CEUR Proceedings*, vol. 475, pp. 45-56, 24 April 2009, Thessaloniki, Greece.
- C.8.** Tsiliki, G., Kaforou, S., Kapsetaki, M., **Potamias, G.**, and Kafetzopoulos, D. (2008). A computational approach to microarray universal reference sample. *Proc IEEE 8th International Conference on BioInformatics and BioEngineering (BIBE 2008)*, 8-10 Oct. 2008, pp. 1-7.
- C.9.** Kalaitzakis, M., Kritsotakis, V., Grangeat, P., Paulus, C., Gerfault, L., Perez, M., Reina, C., **Potamias, G.**, Tsiknakis, M., Kafetzopoulos, D., and Binz, Pierre-Alain. (2008). Proteomic based identification of cancer biomarkers: The LOCCANDIA integrated platform. *Proc IEEE 8th International Conference on BioInformatics and BioEngineering (BIBE 2008)*, 8-10 Oct. 2008, pp. 1-7.
- C.10.** Christodoulou, E., Ioannou, M., Kafousi, M., Sanidas, E., Papagiannakis, G., Danilatou, V., Tsiliki, G., Margaritis, T., Kondylakis, H., Manakanatas, D., Koumakis, L., Kanterakis, A., Vassilaros, S., Tsiknakis, M., Analyti, A., **Potamias, G.**, et al. (2008). A new gene expression signature related to breast cancer estrogen receptor status. *Proc IEEE 8th International Conference on BioInformatics and BioEngineering (BIBE 2008)*, 8-10 Oct. 2008, pp. 1-7.
- C.11.** Kanterakis, A., Kafetzopoulos, D., Moustakis, V., and **Potamias, G.** Mining Gene Regulatory Networks and Microarray Data: The MinePath Approach. *18th European Conference on Artificial Intelligence (ECAI'08) Workshop on "Bioinformatics, Genomics & Proteomics, an Artificial Intelligence Approach" (BIGPAIA)*, 22 July 2008, Patras, Greece.
- C.12.** Kalaitzakis, M., Kritsotakis, V., Kondylakis, H., **Potamias, G.**, Tsiknakis, M., and Kafetzopoulos, D. (2008). An Integrated Clinico-Proteomics Information Management and Analysis Platform. *Proc 21st IEEE International Symposium on Computer-Based Medical System (CBMS 2008)*, pp. 218-220, 17-19 June 2008, Jyväskylä, Finland.
- C.13.** [SC:4] Tsiknakis, M., Sfakianakis, S., **Potamias, G.**, Zacharioudakis, G., Kafetzopoulos, D. (2007). A semantic Grid Infrastructure Enabling Integrated Access and Knowledge Discovery from Multilevel Data in Post-Genomic Clinical Trials. *Proceedings of the 15th International Workshops on Conceptual Structures*, Babak Akhgar (ed.), ISBN 978-1-84628-990-3, Springer, July, 2007, Sheffield, UK.
- C.14.** **Potamias, G.**, et al. (2007). Mining Interesting Clinico-Genomic Associations: The HealthObs Approach. *Proc IFIP International Federation for Information Processing, "Artificial Intelligence and Innovations 2007: From Theory to Applications"* Boukis, C., Pnevmatikanis, L., and Polymenakos, L. (eds), vol. 247, pp. 137-145.
- C.15.** **Potamias, G.**, et al. (2007). Knowledge Discovery Scientific Workflows in Clinico-Genomics. *Proc 19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07)*, pp. 91-95.

- C.16.** Moustakis, V., Laine, M.L., Koumakis, L., **Potamias, G.**, Zampetakis, L., and Loos, B.G. (2007). Modeling Genetic Susceptibility: a case study in periodontitis. *IDAMAP-2007: Intelligent Data Analysis in bioMedicine And Pharmacology, AIME 07 workshop*, 8 July 2007, Amsterdam, The Netherlands, pp. 59-64.
- C.17.** Tsiknakis, M., Grangeat, P., Binz, P-A., **Potamias, G.**, et al. (2007). Functional Specifications of an Integrated Proteomics Information Management and Analysis Platform. *Proc 29th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS 2007)*, 22-26 Aug. 2007, pp. 6064-6068. [PubMed ID: 18003398]
- C.18.** Tsiknakis, M., Kafetzopoulos, D., **Potamias, G.**, Analyti, A., Marias, K., and Manganas, A. (2006). Building a European Biomedical Grid on Cancer: the ACGT Integrated Project. HealthGRID 2006, 7-9 June 2006, Valencia, Spain. *Studies in Health Technology and Informatics*, 120: 247-258. [PubMed ID: 16823143]. [SC/h: 17] [ISI: 1] [SC: 6] [GS: 10]
- C.19.** Tsiknakis M., Kafetzopoulos D., **Potamias, G.**, Analyti A., Marias K., and Sfakianakis S. (2006). Developing a European Biomedical GRID for post-genomic research on Cancer. *Proc IEEE EMBS Information Technology Applications in Biomedicine (ITAB 2006)*, 26-28 October 2006, Ioannina, Greece.
- C.20.** **Potamias, G.**, Antonakaki, D., and Kanterakis, A. (2006). Construction of Gene Correlation Networks and Text Classification via Biomedical Literature Mining. *Proc IEEE EMBS Information Technology Applications in Biomedicine (ITAB 2006)*, 26-28 October 2006, Ioannina, Greece.
- C.21.** **Potamias G.**, and Kanterakis A., (2006). DNA promoter Prediction via Feature Selection: The MineProm System. In *Procs 2nd ADBIS Workshop on Data Mining and Knowledge Discovery (ADMKD'2006)*, September 6, 2006, Thessaloniki, Greece, pp. 109-120.
- C.22.** **Potamias, G.**, Koumakis, L., and Moustakis, V.S., (2005). Enhancing Web Based Services by Coupling Document Classification with User Profile. In *Procs. EUROCON 2005 - The International Conference on Computer as a tool*, Vol. 1, pp. 205-208.
- C.23.** **Potamias G.**, Kafetzopoulos, D., and Tsiknakis, T. (2004). Integrated Clinico-Genomics Environment: Design and Operational Specification. *Proc 2nd ICICTH International Conference on Information Communication Technologies in Health*, July 8-10, 2004 Samos Island, Greece. *Journal for Quality of Life Research (JQLR)* 2(1): 145-150. [SC: 2] [GS: 2]
- C.24.** **Potamias G.**, and Koumakis, L. (2004). HealthObs: An Integrated System for Mining Clinical XML-formatted Data. In *Proceedings 2nd ICICTH International Conference on Information Communication Technologies in Health*, July 8-10, 2004 Samos Island, Greece, pp 359-364.
- C.25.** **Potamias G.**, Koumakis, L., Charissis, G., Moustakis, V., Tsiknakis, M., and Orphanoudakis, S. (2003). Supporting Population Centered Medical Decision Making: Design Recommendations and Preliminary. *Proc 9th International Conference on Human-Computer Interaction (HCI2003)*, Heraklion, Crete, pp. 795-799.
- C.26.** **Potamias G.** (2003). Utilizing Genes Functional Classification in Microarray Data Analysis: a Hybrid Clustering Approach. *Proc 9th Panhellenic Conference in Informatics*, Thessaloniki, Greece, pp. 417-430.
- C.27.** **Potamias G.**, and Moustakis, V.S. (2001). Mining coherence in time series data. In *Procs 9th International Conference on Human-Computer Interaction – HCI2001*, New Orleans, LA, USA.
- C.28.** Frossyniotis D., Vrettos S., Vogiatzis D., Stafylopatis A., Constantinopoulos C., Fotiadis D.I., K. Likas, A., **Potamias G.**, Naka, A., Tzimas, T., and Michalis, L.L. (2001). An Intelligent System for the Early Diagnosis of Coronary Artery Disease. *Proc 4th International Conference on Neural Networks and Expert Systems in Medicine and Healthcare - NNE SMED*, Milos, Greece, pp. 238-244. [SC: 1] [GS: 4]

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- C.30. Potamias G.,** Raxenidis V., and Papadakis A. (2001). Personalized Classification of Web Documents. In *Procs 8th Panhellenic Conference in Informatics*, Nicosia, Cyprus, vol. 2: 213-222.
- C.31. Potamias, G.,** and Moustakis, V. (2001). Knowledge discovery from distributed clinical data sources: the era for internet-based epidemiology. *Proc 23rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, vol. 4, pp. 3638-3641.
- C.32. Potamias G.,** Papanikolaou E., and Hatzigeorgiou A. (2001). Knowledge-based TDNN architectures for features recognition DNA sequences. *Proc International Joint INNS/IEEE Conference on Neural Networks - IJCNN*, Washington DC, USA, vol. 2: 2327-2332. [SC: 1] [GS: 1]
- C.33. Potamias G.,** Tsiknakis M., Katehakis D., Karabela E., Moustakis V., and Orphanoudakis S. (2000). Role-Based Access to Patients Clinical Data: The InterCare Approach in the Region of Crete. *Proc 16th Medical Infobahn for Europe Conference (MIE 2000)*, Hannover, Germany, August 27- September 1, 2000. *Studies in Health Technology and Informatics*, 77: 1074-1079. [PubMed ID: 11187486]. [SC/h: 17] [ISI: 1 *unofficial*] [SC: 3 [GS: 18]
- C.34. Morik, K, Potamias, G,** Moustakis, V and Charissis, G. (1993). Model based learning support to knowledge acquisition: a clinical case study. In *Procs 4th Conference on Artificial Intelligence in Medicine Europe - AIME93*, Munich, Germany, pp. 434-439, IOS Press, Amsterdam. [GS: 2]

Abstracts, Posters & Presentations

- D.1.** Potamias, G., and Kanterakis, A. (2010). Revealing Disease Molecular Regulatory Mechanisms: Coupling Microarrays and Gene Regulatory Networks. 5th Conference of the Hellenic Society for Computational Biology and Bioinformatics (HSCBB10), 17-19 October 2010, Alexandroupolis, Greece.
- D.2.** Kanterakis, A., Kafetzopoulos, D., Moustakis, V., and **Potamias, G.** (2008). Decomposition of Gene Regulatory Networks into Functional Paths and their Matching with Microarray Gene Expression Profiles. *6th European Symposium on Biomedical Engineering (ESBME 2008)*, 19-21 June 2008, Chania, Greece.
- D.3.** Brookes, A.J., Atlan, D., Beroud, C., Birney, E., Brahmachari, S., Cambon-Thomsen, A., Dagleish, R., den Dunnen, J., Devereau, A., Diaz, C., Gudbjartsson, H., Gut, I., Kanninen, T., Lehvaslaiho, H., Litton, J., Muilu, J., Oliveira, J., Parkinson, H., Patrinos, G.P., **Potamias, G.**, Wingender, E., Yip, Y.L. (2008). GEN2PHEN: An international effort towards the universal databasing of gene-disease relationships. (Abstract + Poster: P08.20); Abstract published in: *European Journal of Human Genetics* 16(Suppl 2), p. 399, May 2008.
- D.4.** Brookes A.J., Atlan D., Beroud C., Birney E., Brahmachari S., Cambon-Thomsen A., Dagleish R., den Dunnen J., Devereau, A., Diaz C., Flicek P., Gudbjartsson, H., Gut I., Kanninen T., Lehvaslaiho H., Litton J., Muilu J., Oliveira J., Parkinson H., Patrinos G., **Potamias G.**, Wingender E., Yip L. (2008). GEN2PHEN: an international effort to harmonise and optimise the databasing of gene-disease relationships. *Genomic Med.* (2008) 2:217, DOI 10.1007/s11568-009-9081-x.
- D.5.** Moustakis, V., **Potamias, G.**, Laine, M., Loos, B., and Koumakis, L. (2008). Linking genetic Susceptibility with clinical findings: a case study in periodontitis. (Abstract + Poster: P06.231); Abstract published in: *European Journal of Human Genetics* 16(2), p. 341, May 2008.

- D.6. Potamias, G., et al.** (2007). The LOCCANDIA Integrated Clinico-Proteomics Environment. In *5th International Conference on Instrumental Methods of Analysis Modern Trends and Applications (IMA'07)*, 30 Sep.-4 Oct. 2007, Patras, Greece (Abstract + Presentation).
- D.7.** Laine, M.L., Moustakis, V., van der Palen, C., Lessmann, F., van Winkelhoff, A.J., van der Velden, U., Crusius, J.B.A., More, S.A.M., Pena, A.S., **Potamias, G.**, and Loos, B.G. (2007). Biomedical Informatics in Periodontal Disease Research. In *42nd Annual Meeting of IADR-Continental European and Israeli Divisions*, 26-29 September 2007, Thessaloniki, Greece (Abstract: 0037 + Presentation).
- D.8. Potamias G.**, Tsiknakis M., Papoutsidis, V., Kanterakis A., Marias K., and Kafetzopoulos D. (2006). Advancing Clinico-genomic Research Trials via Integrated Knowledge Discovery Operations (extended paper + poster). In *Medical Informatics in Europe conference (MIE 2006)*, 27-30 August 2006, Maastricht, the Netherlands.
- D.9.** Sfakianakis S., Chronaki C., Bernstein I., Nrgaard J.R., Katehakis D.G., **Potamias G.**, and Tsiknakis M. (2006). Early experience from HL7 v3 tools, the Pedigree topic, and CDA in the Danish HNPPC Registry. In *International HL7 Interoperability Conference IHIC 2006*, August 24-25, 2006, Cologne, Germany (Abstract + Presentation).
- D.10. Potamias G.**, Dermon C. R., Stamatakis A., Moore T., Moss M., Rosene D. L., and Barbas H. (2006). A Feature-based Selection Approach for Patterning Adrenoceptor Changes in Hypertension. In *5th Forum on European Neuroscience (FENS 2006)*, 8-12 July, 2006, Vienna, Austria (Abstract + Poster).
- D.11.** Kafetzopoulos, D., Stathopoulos, S., Sanidas, E., Vassilaros, S., Marias, K., **Potamias, G.**, and Tsiknakis, M. Biomedical informatics as the means for achieving 'systems biology' approaches to understanding and curing cancer. (2005). *HERCMA 2005 (Hellenic European Research in Computer Mathematics and its Applications) Conference*, September 22-24, 2005, Athens, Greece (Abstract + Presentation).
- D.12. Potamias G.** (2005). Mining Distributed and Heterogeneous Clinical Data Sources. *ERCIM News* 60 (special session: *Biomedical Informatics*), pp. 33-35.
- D.13. Potamias G., et al.** (2005). Breast Cancer and Biomedical Informatics: The PrognoChip Project. *IMACS 2005: Computer Science and Artificial Intelligence – Bioinformatics session* (organizer: Casimir Kulikowski), July 11 - 15, 2005, Paris, France (Extended Abstract + Presentation) [SC: 3] [GS: 6]
- D.14. Potamias, G., et al.** (2004). Breast cancer, microarrays and biomedical informatics: The Prognochip Project. (Extended abstract). In *1st International Advanced Research Workshop on In Silico Oncology: Advances and Challenges (IARWISO)*. Sparta, Greece, September 9-11, 2004 (Extended Abstract + Presentation).
- D.15. Potamias G.**, and Dermon C. (2004). Utilizing Genes Functional Classification in CNS Gene Expression Profiling. In *ISN 2004: Special Neurochemistry Conference "Changes in Neuronal Gene Expression and CNS Drug Responses"*, Avignon, France, 13-16 May 2004 (Abstract + poster)
- D.16. Potamias G.**, and Dermon C. (2003). Mining brain developmental Events: Profiling & Modeling protein Synthesis Activity with Clustering Techniques. In *6th World Congress of Neuroscience - IBRO* (poster & abstract), Prague, Czech Republic, abstract: 4385.
- D.17. Potamias G.** (2003). The Utility of Sequence, Function and Transcriptional Information in Gene Expression Profiling (extended abstract). In *EUNITE Workshop on Intelligent Technologies for Gene Expression Based Individualized Medicine*. Jena, Germany. [SC: 1] [GS: 1]
- D.18.** Hristofis K., **Potamias G.**, Tsiknakis M., Moustakis V., and Orphanoudakis S. (2000). Mining Distributed and Heterogeneous Data Sources: A Project in the Medical Domain. In *Procs*

Machine Learning in the New Information Age, MLnet workshop, European Conference of Machine Learning (ECML2000), Barcelona, Spain, pp. 27-38.

- D.19. Potamias G.**, and Moustakis V. (1999). Induction of “In-between” Classes: Learning vague Concepts. In *European Symposium on Intelligent Techniques (ESIT99)*, Chania, Greece, Session BC-03.
- D.20.** Mavropoulos H., Dounias G., **Potamias G.** (1999). Advanced statistical analysis of Working Accidents using data mining tools. In *Advanced Course on Artificial Intelligence (ACAI99)*, Chania, Greece. Proceedings of Student Sessions, pp. 9-10.
- D.21. Potamias G.** (1997). Linear Programming based Induction (LPI): A Constraint Logic Programming Elaboration. *Διεθνές Πανελλήνιο Συμπόσιο Λογικής*, Nicosia, Cyprus, pp. 199-204.
- D.22.** Englmeier K., Moustakis V., and **Potamias G.** (1996). Advanced Information Systems Based Information Agents. In *International Conference on Applied Ergonomics (ICAE96)*, Istanbul, Turkey.
- D.23. Potamias G.**, Moustakis, V., and Charissis, G. (1996). Interactive Knowledge Base Construction and Maintenance. In “*Human Computer Interaction meets Machine Learning*”, *International Conference of Machine Learning (ICML96) workshop*, 3 July, 1996.
- D.24. Potamias G.**, Gaga L., Blazadonakis M., and Moustakis V., (1993). Multistrategy learning support to the acquisition of clinical knowledge: methodological issues. In *MLNet workshop on Multi-Strategy Learning*, Sept. 1993, Blanes, Spain (extended abstract).
- D.25.** Morik K., **Potamias G.**, Moustakis V., and Charissis G. (1993). Knowledgeable Learning using MOBAL – A Case Study on a Medical Domain. In *Real-World Applications of Machine Learning, ECML93 (European Conference on Machine Learning) workshop*, Vienna, Austria, pp. 1-15.
- D.26.** Moustakis V., **Potamias G.**, (1993). Inductive learning support for decision making. (extended abstract). In *3rd International Workshop on Artificial Intelligence in Economics and Management - AIEM3*, Portland, Oregon, USA, (session 9A: “Planning and Learning”).
- D.27.** Moustakis V., **Potamias G.**, Gaga L., Blazadonakis M., Vassilakis P., and Charissis G., (1992). Bias identification using inductive learning techniques - a medical case study. In *Expert Judgment, Human Error, and Intelligent Systems*, B.G. Silverman (Ed.), *European Conference on Artificial Intelligence (ECAI 1992)*, Vienna, Austria.

Invited Talks

- E.1.** Moustakis, V., and **Potamias, G.** (2009). SEMANTIC WEB AND GRID FACILITATION FOR GENOME WIDE ASSOCIATION STUDIES - CHALLENGES FOR NANOMEDICINE. *Nanoinformatics: New Challenges for Biomedical Informatics at the Nano Level, MIE 2009 Workshop*, September 1, 2009, Sarajevo, Bosnia and Herzegovina (invited presentation). <http://www.mie2009.org/program/MIE09%20PREL%20BOOKLET.pdf>
- E.2. Potamias., G.**, Tsiknakis, M., and Kafetzopoulos, D. (2007). CANCER, CLINICO-GENOMICS AND BIOMEDICAL INFORMATICS: THE ACGT APPROACH. *International Symposium on Biomedical Informatics in Europe*, 26-27 June 2007, Barcelona, Spain (invited; Abstract & Presentation). <http://www.infobiomed.net/symposium/programme/topicF.htm>
- E.3.** Kafetzopoulos, D., Potamias, G., and Tsiknakis, M. (2007). PROTEIN PROFILING AND DIAGNOSIS WITH LAB-ON-CHIP AND PROTEOMICS TECHNOLOGY: THE LOCCANDIA INTEGRATED CLINICO-PROTEOMICS ENVIRONMENT. *International Symposium on Biomedical Informatics in Europe*, 26-27 June 2007, Barcelona, Spain (invited; Abstract & Presentation). <http://www.infobiomed.net/symposium/programme/topicF.htm>

- E.4.** Potamias, G. (2006). KNOWLEDGE DISCOVERY IN CLINICO-GENOMICS: A MULTI-STRATEGY DATA-MINING METHODOLOGY. *Advancing Clinico-Genomics: Information Integration & Knowledge Discovery Issues, ERCIM BMI/WG Scientific Workshop*, 10 May 2006, Budapest, Hungary.
http://www.ics.forth.gr/bmi/ercim/files/ERCIM_BMI_WG_Budapest_ScientificWorkshop.pdf
- E.5.** **Potamias G.** (2006). Knowledge Discovery in Support of Integrated Clinico-Genomic Research Studies. *1st Cretan Bioinformatics Forum*, June 19, 2006, Heraklion, Crete, Greece.
<http://www.ics.forth.gr/bmi/cbf2006/index-Dateien/Page1170.htm>
- E.6.** **Potamias, G.** (2005). TECHNOLOGICAL PLATFORMS FOR GENOMIC MEDICINE. *MIE 2005 Workshop* (organised by INFOBIOMED NoE) http://www.mie2005.net/80_Workshops.htm
- E.7.** **Potamias G.** (2004). ERCIM WG IN BIOMEDICAL INFORMATICS. Presentation at: *5th International Symposium on Biological & Medical Data Analysis*, Barcelona, Spain, November 2004 <http://www.seis.es/seis/ISBMDA04/Programme.htm>
- E.8.** **Potamias G.** (2001). KNOWLEDGE ACQUISITION FROM THE HYGEIANET INFORMATION SOURCES. In “*Health Telematic Services*” workshop, *24th Panhellenic Paediatric Surgery Conference*, Athens, Greece.
- E.9.** **Potamias G.** (2001). MACHINE LEARNING IN MEDICINE. In “Machine Learning and Knowledge Processing in Science and Corporations”, Athens University of Economics & Business, Athens, Greece.
- E.10.** **Potamias G.** (2000). MINING AND VISUALIZATION OF STATISTICAL INFORMATION SPACES - KNOWLEDGE DISCOVERY FROM DISTRIBUTED AND HETEROGENEOUS DATA SOURCES: PROBLEMS, ISSUES, TECHNOLOGY, SET UP & REALIZATION. In *HELDINET* workshop “*Data Mining from Databases*”, Aristotle University of Thessaloniki, Thessaloniki, Greece.