

## **Prof Dimitrios I. Fotiadis**

Prof. Dimitrios I. Fotiadis received the Diploma degree in chemical engineering from the National Technical University of Athens, Athens, Greece, in 1985, and the Ph.D. degree in chemical engineering and materials Science from the University of Minnesota, Minneapolis, MN, in 1990. He is currently a Professor of biomedical engineering in the Department of Materials Science and Engineering, the Director of the Unit of Medical Technology and Intelligent Information Systems, Department of Materials Science and Engineering, University of Ioannina, Ioannina, Greece, and an Affiliated Member of FORTH, Biomedical Research Institute. He was a Visiting Researcher at the RWTH, Aachen, Germany and the Massachusetts Institute of Technology, Boston, MA. He has published more than 140 papers in scientific journals, 270 papers in peer-reviewed conference proceedings, and more than 25 chapters in books. He is the editor of 16 books. His research interests include modeling of human tissues and organs, intelligent wearable devices for automated diagnosis and bioinformatics. His work has received more than 1,500 citations.

### **Professional Experience**

October 1985 – July 1990	Assistant Researcher in the Dept. of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, USA
January – July 1988	Visitor Researcher in the Reinische – Westfalische Technische Hochschule (RWTH), Aachen, Germany
October 1996 – July 1990	Research cooperater in the Minnesota Supercomputer Institute
November 1989 – July 1990	Visitor Researcher in the Department of Chemical Engineering, Massachussets Institute of Technology, Cambridge, Massachussets, USA
December 1991 – June 1995	General Manager, Egnatia Epirus Foundation, Ioannina
January 1993 – June 1995	Technical Consultant BMS Ltd, Ioannina
June 1995 – July 1999	Lecturer, Department of Computer Science, University of Ioannina
July 1999 – 2002	Assistant Professor, Department of Computer Science, University of Ioannina
January 2000 -	Researcher Michailidio Cardiac Center
January 2001 -	Researcher in the FORTH
September 2002 -	Associate Professor, Department of Computer Science, University of Ioannina
March 2009 -	Professor, Department of Materials Science and Engineering, University of Ioannina

### **Administrative positions in the University of Ioannina**

1996 - 2003	Coordinator of the Computer Center of the University of Ioannina
1996 – 2001	Coordinator of the Data Management Center of the University of Ioannina
1996 - 2002	Associate Coordinator of the Technology Park of Ioannina
1996 –	Member of the Administrative Committee GUNET
1998 - 2002	Member of the General Assembly of the Materials Science and Engineering
2000 -	Member of the Scientific Board of the Michailidio Cardiac Center
1995 - 2002	Coordinator of the Economics Committee of the Department of Computer Science
2000 -	Coordinator of the Committee of the Building of the Department of Computer Science
2000	Member of the Committee of H/Y of the Department of Computer Science
2000	Member of the Committee about the Promotion of the Department of Computer Science
2002 - 2010	President of the Board in the Science and Technology Park of Epirus S.A.
2002 – 2003	Vice-president of the Administrative Committee of the University of Western Macedonia
2004 - 2006	Member of the Administrative Committee of the University of Western Macedonia -President of the Research Committee
2008 -	EMBS – IEEE Technical Committee in Biomedical Informatics Member
2009 – 2010	National Representative of FP7 programe – CAPACITIES
2010-	President of the IEEE EMBS Greece Chapter

## **Research Interests**

Modeling of physical systems, Biomedical Engineering, Automated medical diagnosis, Intelligent information systems-Medical Informatics, Heterosis Modeling, Modeling of biomaterials, Bioinformatics

## **Scientific Memberships**

IEEE (senior member), SIAM, ACM, SPIE, AMIA, TEE

**Granted Patents:** Method and System of monitoring of the healing of long Bones (20050100444/24-8-2005, 1005458).

**Research Expeditions:** Prof Dimitrios I. Fotiadis has established in 1998 the Unit of Medical Technology and Intelligent Information Systems, University of Ioannina. The Unit has established collaborations with the University of Ioannina, the University Hospital and with other research centers within Greece and abroad.

## **Indicative organization of International Conferences**

1. IEEE – ITAB 2006 (Information Technologies in Biomedicine), 25 – 28 October 2006, Ioannina, Greece, Program Co-Chair.
2. IEEE – BIBE2008 (Biomedical Informatics – Biomedical Engineering), 8 – 10 October 2008, Athens, Greece, Program Co-chair.
3. IEEE – ITAB 2010 (Information Technologies in Biomedicine), 5-7 November 2010, Corfu, Greece, Program Chair.
4. 10<sup>th</sup> IEEE International Workshop on Biomedical Engineering, 5-7 October 2011, Kos, Greece, Member of the organizing Committee.

## **International Prizes/Awards/Academy memberships**

1. 2003: 4<sup>th</sup> Award on Telemedicine of the competition that was organizing by the European Committee at the Cork, Ireland, among 32 finalist of the 109 proposals that was submitted for the system USBONE.
2. 2004: Golden medal by the international committee «EUREKA-BRUSSELS» - 53rd World Exhibition of Innovation, Research and New Technology 2004 for innovation at research concerning the European program: AUBADE: Wearable EMG Augmentation System for Robust Emotional Understanding.
3. 2004: Cupreous medal by the international committee «EUREKA-BRUSSELS» - 53rd World Exhibition of Innovation, Research and New Technology 2004 for innovation at research concerning the European program: INTREPID: Wearable EMG Augmentation System for Robust Emotional Understanding.
4. 2004: Award for the best paper at the category of Telemedicine entitled “An Ultrasound Wearable System for the Monitoring and Acceleration of Bone Fracture Healing” 2nd International Conference on Telemedicine and Multimedia Communication, 08-09/10/2004, Warsaw, Poland (invited presentation).
5. 2005: The paper entitled “An Integrated Telemedicine Platform for the Assessment of Affective Physiological states” was reviewed by the committee of the international conference “3rd international conference on telemedicine & multimedia communications” held in Poland 21-23 October 2005 and was awarded as the best paper at the category of Telemedicine.
6. 2005: EMBEC Scientific Award for the best paper published in peer-reviewed international journal in the field of Biomedical Engineering (the awarded paper was “An ultrasound wearable system for the monitoring and acceleration of fracture healing in long bones”, IEEE Trans Biomed Eng 2005;52(9):1597-1608). The award was granted on the EMBEC 2005 Conference.
7. 2009: Best presentation award for the paper entitled: "Dynamic Bayesian Networks for disease evolution monitoring: the test case of oral cancer reoccurrence", 4th Conference of the Hellenic Society for Computational Biology and Bioinformatics (HSCBB 2009), Athens, Greece, 2009.
8. 2010: pHealth Innovation Award 2010 for the best paper in the 7th International Conference on Wearable Micro and Nano Technologies for Personalised Health: PERFORM - a Wearable System for Remote Monitoring and management of Parkinson's Disease
9. 2011: Honor from the Hellenic Federation of Enterprises (SEV) / EUROBANK EFG for the project PERFORM (PERFORM - a Wearable System for Remote Monitoring and management of Parkinson's Disease) at the competition “Greece Innovates”
10. 2011 Perform Presentation in the exhibition of the Innovation Convention organised by the European Commission's Directorate General for Research and Innovation, 2011

## **Memberships to editorial boards of International Journals**

1. Associate Editor, from 2008 in the journal IEEE Transactions on Information Technology in Biomedicine
2. Member of the editorial board of the Journal “Recent Patents in Engineering”, Bentham Publishing.

3. Member of the editorial board of the Journal “Open Biomedical Engineering”, Bentham Publishing.
4. Guest Editor (with C. Pattichis, C. Schizas, M. Pattichis, E. Micheli – Tzanakou, E. Kyriakou), Special Section on Computational Intelligence in Medical Systems, IEEE Transactions on Information Technology in Biomedicine (2009).
5. Guest Editor (with M. Akay, T. Exarchos, K. Nikita), Special Issue on Emerging Technologies in Biomedicine, IEEE Transactions on Information Technology in Biomedicine (to come 2011).
6. Guest Editor (with K. Nikita), Special Issue on New and Emerging Technologies in Bioinformatics and Bioengineering, IEEE Transactions on Information Technology in Biomedicine (2010).