




Iulia Graf, Ph.D.

Technology Specialist, Patent Agent

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Overview

About Iulia

Iulia Graf, Ph.D., is a technology specialist and patent agent in the Austin office of Fish & Richardson P.C. Dr. Graf has several years of experience in developing various interdisciplinary techniques including biomedical, electro-mechanical, electrical systems, controls and software.

Prior to joining the firm, Dr. Graf worked as research scientist in the biomedical engineering department at the University of Texas at Austin, where she performed preclinical research to improve the diagnosis and treatment monitoring of cardiovascular diseases and cancer. Dr. Graf also has several years of experience with clinical vascular research, acquired at the School for Cardiovascular Diseases (CARIM), Maastricht University, the Netherlands, and several years of experience with cardiac research, from the Institute of Biomedical Engineering, Karlsruhe University (TH), Germany. Dr. Graf had served as a reviewer for several research foundations, including the National Institute of Health (NIH), Netherlands Organisation for Scientific Research (NWO) and German Research Foundation (DFG).

Dr. Graf is fluent in German, Dutch, Italian, Spanish, French, and Romanian.

Focus Areas

Services

- Patent
- Patent Prosecution

- Patent Litigation

Industries

- Electrical and Computer Technology
- Manufacturing
- Software

Education

Ph.D. *magna cum laude*, Electrical and Information Engineering, University of Karlsruhe (2005)

B.S., Physics, University of Bucharest (2002)

Insights

Selected Publications

I. M. Graf, S. Kim, B. Wang, R. Smalling, and S. Emelianov, "Feasibility of combining ultrasound, strain and photoacoustic imaging for vascular diagnosis," Elsevier: Ultrasonics, vol. 52(3), pp.435-441, 2012.

I. M. Graf, R. Miri, R. Smalling, and S. Emelianov, "Clinical Benefits of Fusion of Cardiac and Vascular Models," Expert Opinion On Medical Diagnostics, Vol. 5(6), pp 501-515, 2011.

R. Miri, I. M. Graf, B. J. Vicente and O. Dössel, "Applicability of Body Surface Potential Map in Computerized Optimization of Biventricular Pacing," Annals of Biomed Eng, vol. 38(3), pp. 865-75, 2010.

I. M. Graf, F. H. Schreuder, W. H. Mess, R. S. Reneman, and A. P. Hoeks, "Spatial Distension Variations Are Associated with Focal Atherosclerotic Plaques," Cerebrovasc Dis, vol. 29, pp. 199-205, 2009.

N. Saeed and I. M. Graf, "From radio frequency data to vascular diagnosis," Ultrasound, vol. 17, pp. 131-136, 2009.

R. Miri, I. M. Graf, and O. Dossel, "Efficiency of timing delays and electrode positions in optimization of biventricular pacing: a simulation study," IEEE Trans Biomed Eng, vol. 56, pp. 2573-82, 2009.

I. M. Graf, F. H. Schreuder, J. M. Hameleers, W. H. Mess, R. S. Reneman, and A. P. Hoeks, "Wall irregularity rather than intima-media thickness is associated with nearby atherosclerosis," Ultrasound Med Biol, vol. 35, pp. 955-61, 2009.

F. H. Schreuder, I. M. Graf, J. M. Hameleers, W. H. Mess, and A. P. Hoeks, "Measurement of common carotid artery intima-media thickness in clinical practice: comparison of B-mode and RF-based technique," Ultraschall Med, vol. 30, pp. 459-65, 2009.

Recognition

2008 3rd Place Award in Artery 8 poster session

2002 – 2005 German Research Foundation (DFG) scholarship

2002 European Union Foundation: Erasmus scholarship

1998 – 2002 National academic scholarship of merit

1994 – 1998 Romanian national Olympic in physics (3 silver medals)

1996 – 1998 Romanian national Olympic in natural sciences (1 silver and 1 bronze medal)

Memberships & Affiliations

Biomedical Engineering Society, IEEE

Languages

- English
- German
- French

- Italian
- Spanish
- Romanian
- Dutch