

## ABOUT THE CONTRIBUTORS

**Clara M. Ionescu** is Professor at Faculty of Engineering and Architecture at Ghent University Belgium. She obtained her Ph.D. (biomedical engineering) from the same university and was for 6 years the recipient of famous Flanders Research Center post doctoral grant. She has written about 100 articles cited in Web of Science on application of systems and control theory to technical and non-technical applications, of which a large amount on biomedical systems. She is peer-reviewer to a manifold of top-ranked publications, including (among others) the Biomedical Signal Processing and Control, IEEE Transactions on Biomedical Engineering, Computer methods and Programs in Biomedicine, Journal of Clinical Monitoring and Practice, PLOS One. She is the author of another book on modelling the respiratory system properties Springer.

**Dana Copot** received her PhD degree in biomedical engineering in 2018 from Ghent University, Belgium. She is (co)-author of more than 40 scientific publications. During her doctoral studies, she has been involved in the organization of several workshops and conferences. She has organized several special sessions and open invited tracks at conferences but also special issues. In 2017 she won the best paper award at the IEEE International Conference on Intelligent Engineering Systems. She has also involved in several research projects both national and international. Given her involvement in many research activities she has made numerous collaborations with research units in Europe in the application field of modelling for biomedical system control.

**Eric Derom, MD** from Ghent University Hospital, Department of Respiratory Medicine, has a 30 years expertise in COPD and lung cancer related diagnosis and treatment. Prof Derom is a valued member of the Belgian Society for Pneumology (BVP-SPB), Forum of Flemish Respiratory Medicine Experts (Forum Vlaamse Longartsen), European respiratory Society (ERS), American Thoracic Society (ATS) and German Respiratory Society (Deutsche Gesellschaft fr Pneumologie und Beatmungsmedizin). Numerous clinical research papers in the field of respiratory medicine have numerous citations in highly ranked peer reviewed specialized journals: h-index 19 in Web of Science citation index.

**Ubong Peters** is a Post-Doctoral Associate at the Division of Pulmonary and Critical Care Medicine in the University of Vermont Larner College of Medicine. He obtained his Masters and PhD degrees in Biomedical Engineering from Dalhousie University in Halifax, Nova Scotia. Ubong is best known for his work on the assessment of respiratory system mechanics in obese adults using a novel oscillometry device which he helped develop and validate. He is the winner of the 2016 Dalhousie University 3MT Competition.

**Ireneusz Jabłoński** is Associate Professor of Elebioonics in the Wroclaw University of Technology, Poland. He obtained his PhD and DSc (elebioonics) from Wroclaw University of Technology, Poland. He serves as the Associate Editor for the peer-reviewed scientific journal Metrology and Measurement Systems, and is the Editor-in-Chief for the International Journal of Measurement Technologies and Instrumentation Engineering. He has written about 25 articles on biomedical measurements in various international peer-reviewed publications, including IEEE Transactions on Biomedical Engineering, Computer Methods and Programs in Biomedicine, Measurement. He is the author of one monography and four book chapters.

**Cristina I. Muresan** received the degree in system engineering in 2007, and the Ph.D. in 2011 from Technical University of Cluj-Napoca, Cluj-Napoca, Romania. She is currently an associated professor at the Technical University of Cluj-Napoca, Automation Department, Romania. Since 2007, she has published over 100 papers and book chapters, she has received multiple paper awards and has coordinated 3 research grants. Her research interests include modeling techniques, with a focus on fractional order systems, with applications ranging from biomedical systems to aerospace engineering.

**David A. Kaminsky, MD** is a Professor of Pulmonary and Critical Care Medicine at University of Vermont College of Medicine. He received his undergraduate degree from Yale University, and medical degree from University of Massachusetts Medical School. He completed his residency training in Internal Medicine at Columbia Presbyterian Medical Center in New York City, and fellowship training in Pulmonary and Critical Care Medicine at University of Colorado Health Sciences Center in Denver. Dr. Kaminsky joined the faculty of University of Vermont College of Medicine in 1995 and continues to work as a clinician, researcher and

educator. Dr. Kaminskys areas of research interest include pulmonary physiology, lung mechanics, asthma and COPD.

**Swati Bhatawadekar** is a Scientific Associate at University Health Network-Toronto Rehabilitation Institute, Toronto, Canada. Swati received her bachelors and masters degrees in Instrumentation & Control Engineering from University of Pune (Pune, India), and PhD in Biomedical Engineering from Dalhousie University (Halifax, Canada). She completed her postdoctoral training in the Sleep Science Laboratory at Toronto Rehabilitation Institute. She has published 8 journal papers in several high impact journals including the Journal of Applied Physiology and Annals of Biomedical Engineering.

**Geoff N. Maksym** is Professor and Director of Biomedical Engineering at Dalhousie University at Halifax, Canada. He obtained his PhD from McGill University at the Meakins-Christie Laboratories. His research spans the cell to the patient in respiratory cell and lung mechanics in health and disease utilizing imaging, modeling, and developing novel medical devices. He has written more than 50 papers and book chapters and reviews publications for Journal of Applied Physiology, European Respiratory Journal, American Journal of Respiratory and Critical Care Medicine, Journal of Theoretical Biology, Journal of Cell Science, Nature, and others. He is an inventor for seven patents and is cofounder and currently Chief Scientific Advisor for Thoracic Medical Systems Inc., Montreal.

**Lennart Lundblad** is an Associate Professor of Medicine at the University of Vermont. He obtained his PhD in Experimental Clinical Physiology at the Lund University in Sweden. He is an expert in lung physiology with experience from work in both laboratory animals and humans. He had extensive experience in drug development and project management from working with AstraZeneca before joining as the faculty at the Larner College of Medicine at the University of Vermont in 2001. He has had continuous funding from NIH and has had extensive collaborations intra- and extramurally with other universities and the pharmaceutical industry. He is the author/coauthor of about 50 peer-reviewed articles and numerous abstracts and letters to the editor in internationally recognized journals.