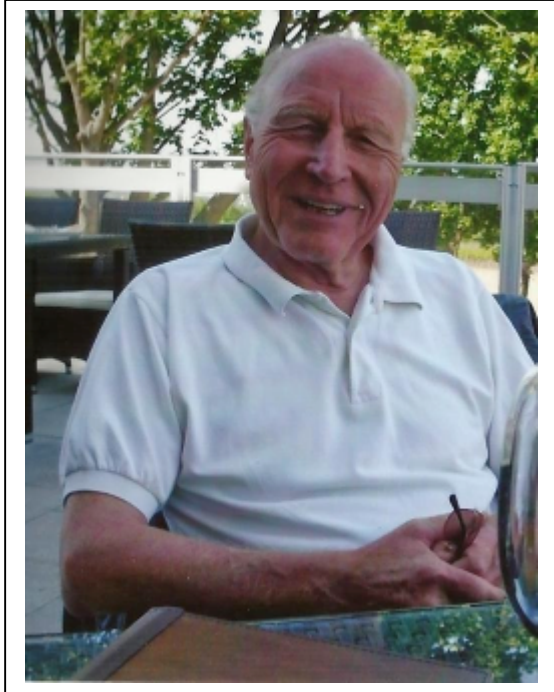


## *Personal information form for Fellow members of EAMBES*

### Personal Info



Name: Helmut Hutten

Gender: Male

Date and place of birth: January 09, 1936

Backnang (Germany)

Present affiliations and functions: em. Univ.-  
Professor

Present e-mail address:  
h.hutten@TUGraz.at

Webpage address when applicable:        --  
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### Short CV

Please indicate

#### 1. Date and university for MSc and PhD degree(s)

MSc (Dipl.-Ing. Electrical Engineering), 1961

University of Technology, Karlsruhe (Germany)

PhD (Dr.-Ing.), 1969

University of Technology, Darmstadt (Germany)

#### 2. Different professional affiliations with applicable periods

1961 – 1964    Industry: Rohde & Schwarz

1964 – 1991    University of Mainz, Medical Faculty, Institute of Physiology  
(different positions, since 1972 Professor in the Medical  
Faculty after Habilitation with the Venia Legendi for  
Biomedical Engineering and Biophysics)

- 1991 – 2004 Chair Professor for Biomedical Engineering, Faculty for Electrical Engineering and Information Technology, University of Technology, Graz (Austria)
- 1991 – 2004 Head, Versuchsanstalt (Institute for Safety Procedures in Medical Technology with the Notified Body 0636), University of Technology, Graz (Austria)
- 2004 - Univ.-Professor emeritus

### 3. Major activities at the national and international level

- 1976 – 1980 AC Member, Gesellschaft fuer Mikrozirkulation
- 1979 – 1995 AC Member, Deutsche Gesellschaft fuer Biomedizinische Technik (German Society for Biomedical Engineering)
- 1991 – 1993 President
- 1993 – 1995 Past President
- 1994 – 2000 AC Member, International Federation for Medical and Biological Engineering
- Chair: Working Group for European Activities
  - Member: Division of Health Care Technology Assessment
- 1999 – 2005 Member (and 2004 – 2005 Head), Scientific Advisory Board, German Center of Excellence BME-MOTIV
- 1999 - President, non-profit organization EMBEC
- 2000 – 2003 AC Member, International Union for Physical and Engineering Sciences in Medicine (IUPESM)
- Chair; Regional Development Committee
  - Member: Education and Training Committee
  - Member: Nominating Committee
- 1980 – 2000 Member: DKE German Standardizing Committee “Electrical Devices in Medical Application”

- 1980 – 2000 Member: Committee for Human Research, Akademie der Wissenschaften und Literatur, Mainz (Germany)
- 1999 – 2003 Member of the EAMBES Protem Group
- 2003 – 2004 EAMBES Treasurer
- 2004 – 2011 EAMBES: Preliminary Chair, Division of Fellows

#### 4. Major scientific interests

- medical electronics and instrumentation
- pacemaker technology
- blood flow measurement, microcirculation
- bioimpedance
- analysis of physiological systems, computer-assisted modelling
- computer-assisted and personalized therapy management
- diabetes mellitus, hemodialysis, cardiomyopathy
- biotelemetry, telemedicine, risk telemonitoring
- health care technology assessment, evaluation, standardization
- ambient assisted technology, home-monitoring

#### 5. When applicable the number of journal publications (full articles) and total citations

101 full articles (journals)

21 book chapters

285 papers in conference proceedings

#### 6. When applicable, maximal 4 references to papers you find most important and relevant

- Schaldach, M., Hutten, H. (1992)  
  
Intracardiac Impedance to Determine Sympathetic Activity in Rate Responsive Pacing  
  
PACE 15/II: 1778 – 1786
- Hutten, H., Schreier, G., Kastner, P., Grasser, B., Iberer, F., Tscheliessnigg, K.-H. (1996)

Der Herzschrittmacher als Brücke zum kardialen Telemonitoring

Biomedizinische Technik 41: 158 – 165

- Bachhiesl, P., Scharfetter, H., Hutten, H., Kappel, F., Hintermueller, M. (2001)

Efficient Computation of Optimal Controls for the Exchange Processes during the Dialysis Therapy

Computational Optimization and Applications 18: 179 – 192

- Hutten, H. (2009)

Ventricular Intramyocardial Electrograms and Their Expected Potential for Risk Surveillance, Telemonitoring, and Therapy Management

IEEE Transactions on Information Technology in Biomedicine 13: 426 - 432

### **Recognitions:**

Please indicate honorary recognitions, prices, fellowships etc.

1985 Award of the German Society for Diabetes

1993 Honorary Member, German Society for Biomedical Engineering

1996 Honorary Member of the Scientific Board of the Institute of Biomedical Engineering, University of Erlangen (Germany)

1999 Professor honoris causa, Faculty of Electrical Engineering, Technical University, Cluj-Napoca (Romania)

2001 Honorary Member Verband der Elektrotechnik, Elektronik, Informationstechnik (VDE, Association for Electrical, Electronic & Information Technologies)

2003 Doctor honoris causa, Technical University, Cluj-Napoca (Romania)

2003 IFMBE Fellow (IAMBE)

2005 Honorary President EMBEC'05, Prague (Czech Republic)

2005 Honorary Member Czech Society for Biomedical Engineering and Medical Informatics

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