

## **Invited scientific reviews for peer reviewed international journals**

### **European Radiology**

1./2. doubled review:

Manuscript N° #6483/01:

Electrical Impedance Scanning in Breast Cancer Imaging. Correlation with mammographic and histologic Diagnosis 2001

3. Manuscript N°#8441/03

Locally advanced breast cancer. Comparison of mammography, sonography and MR imaging in evaluation of residual disease in women receiving neoadjuvant chemotherapy 2003

4./5. doubled review:

Manuscript N°# 8023/02:

Ductal Carcinoma in situ: MRI and mammographic extent with histopathological correlation 2002

6./7. doubled review:

Manuscript N°:

Electrical Impedance Scanning in breast cancer imaging: Correlation with mammography and histologic diagnosis 2002

8. Manuscript N°#7341/02:

Neuroendocrine differentiated breast carcinoma: imaging features correlated with clinical and histopathological findings 2002

9. Manuscript N° #8472/03

A comparison between two different CAD systems for Mammography as an aid to radiological diagnosis 3/2003 (coreview on behalf of Prof. W.A.Kaiser) 2003

10. Manuscript N° #8801/03

Application of artificial neural networks to the analysis of dynamic MR imaging features of the breast. 2003

11. Manuscript N° #9319/04:

Electrical Impedance Scanning as a new risk assessment modality for breast cancer in young women 2004

12. Manuscript N° ER-Dec-2004-000731:

Diagnostic value of multislice turbo-gradient echo MRI with increased temporal resolution in differential diagnosis of malignant and benign breast lesions 2004

13. Manuscript N° ER-Jun-2006-002643:

Relationship between DCE-MRI morphological and functional features and histopathological characteristics of breast cancer. 2006

14. Manuscript N° ER-May-2005

Diagnostic value of FDG PET-CT for detecting primary breast malignancy: comparison with other imaging modalities and histopathologic correlation. 2005

15. European Radiology ER-Aug-2005-001570. 2005/2006

16. European Radiology ER-Apr-2006-002407: Contrast enhanced magnetic resonance mammography a 3 Tesla: Initial experience. 2006

17. European Radiology ER- ER-Nov-2006-003172. Performance evaluation and optimization of a dual side reading mammography-dedicated CR system 2007

### **Institute of Electrical and Electronics Engineers (IEEE)**

1./2. double review:

TMI-2002-0033: Electrical conductivity imaging via contactless measurements: An experimental study (primärer Gutachter) 2002

### **Fortschritte auf dem Gebiet der Röntgenstrahlen und der bildgebenden Verfahren Roefo**

1. T3421: Elektrische Impedanzmessung in der Abklärung von Brustläsionen: Vergleich mit Mammographie, Sonographie und Histopathologie. (coreview on behalf of Prof. W.A.Kaiser) 2002

### **Sheffield Hospitals Charitable Trust**

1. Evaluation of electrical impedance in the detection of cervical neoplasma (Grant application für Prof. Tidy, Brown und Wells) (coreview on behalf of Prof. W.A.Kaiser) 2002

2. Grant Application - Changes in human cervical electrical impedance associated with prelabour cervical ripening – (Grant Application für Prof. O.C. Anumba and Prof. B. Brown) (Erstgutachter) 2003

### **European Journal of Radiology**

1. HI-0183-03: Costs and effects of ultrasonography in the evaluation of palpable breast masses 2003

### **Journal of Digital Imaging**

1. JDI-04-02-0007: Computer-Aided Diagnosis of mammographic Mass: Radiological Feature Estimation and Risk Assessment. 2004

2. JDI-04-11-0103: Computer aided detection (CAD) in full field digital mammography: Detection of breast cancer in dependence on parenchymal density. 2005

3. JDI-0506-0042: Quantitative comparison of breast tissue density based upon mammograms taken before and after hormone replacement therapy using off the shelf image processing software and anatomical reference. 2005/2006

4. JDI-01-10-0063A complimentary method for the detection of osteoblastic metastases on digitized radiographs. 2006

### **Technology in Cancer Research and Treatment:**

1. TCRT: Value of electrical impedance scanning (EIS) in the evaluation of BI-RADSTM III/IV-lesions. 2004

### **Investigative Radiology:**

1. IR D-04-00186:  
Diffractive Ultrasound in the Evaluation of Solid Breast Masses: Preliminary Results 2004
2. IR D-04-00226:  
Detection system of clustered microcalcifications on CR mammograms and its performance evaluation (primärer Gutachter) 2004
3. IR D-04-00293:  
THE NEGATIVE PREDICTIVE VALUE OF ELECTRICAL IMPEDANCE SCANNING IN BI-RADS® CATEGORY IV BREAST LESIONS (primärer Gutachter) 2004/2005

### **Der Radiologe**

1. MS # 133/2004: Neoadjuvante Chemotherapie des Mammakarzinoms: Welche posttherapeutischen Informationen liefert die quantitative dynamische MRT? (Coreview on behalf of Prof. Kaiser)

### **Academic Radiology**

Quantitative comparison of breast tissue density based upon mammograms taken before and after hormone replacement therapy using off the shelf image processing software and anatomical reference.

Computer aided detection (CAD) in full field digital mammography: Detection of breast cancer in dependence on parenchymal density.

How does the perception of a lesion influence visual search strategy in mammogram reading?

Validating volume flow measurements from a novel semi-automated 4D Doppler US Scanner

### **Biomedical Signal Processing and Control:**

Enhancing bone mineral density estimates by using local volume spline modelling. 2007

## **Physiological Measurements**

PMEA/240543/SPE/162217: Multi-frequency parameters mapping of electrical impedance scanning using two kinds of circuit models. 2007

PMEA/308547/PAP/162217: Modeling the frequency dependence of electrical properties of the live human skull. 2009