



## INTERNATIONAL FEDERATION FOR MEDICAL AND BIOLOGICAL ENGINEERING

Affiliated with the International Union for Physical and Engineering Sciences in Medicine

Office of the Secretary-General: Prof. S. M. Krishnan

### NOMINEE INFORMATION FORM

Nomination for the position of	<b>HTA Division Board Membership</b>
Name	Marjan Hummel
Affiliated Society	The Netherlands Society for Biophysics and Biomedical Technology
Current Position (in Affiliated Society)	Member
Current Profession (in Academia, Hospital, etc.)	Assistant professor at the University of Twente in the Netherlands

#### Photograph (please use the space provided below)



#### Brief Biography (not to exceed 200 words)

Marjan Hummel is an Assistant Professor in DEcision support for Design Engineering (DEciDE) in Healthcare. She is affiliated with the Department of Health Technology and Services Research at the University of Twente in the Netherlands. With a Master's degree in Technical Business Engineering and a Doctoral degree in Medical Sciences, Marjan has a multidisciplinary background. She has developed a line of research on health technology assessment (HTA) of medical devices in their early stages of development. Within this field of early HTA, she is an acknowledged expert on Multi-Criteria Decision Analysis (MCDA). In her MCDA studies, she chaired and supervised various expert panels, composed of biomedical engineers and medical specialists, to assess technologies prior to their clinical introduction in health care. Examples of the medical devices she assessed include gene technology, nanotechnology, imaging technology, heart pumps, and robotics. Her HTA studies supported decisions on design engineering (various industrial and academic organizations), allocation decisions of research grants (e.g. Health Council, the Netherlands), and reimbursement decisions (e.g. IQWiG, Germany). She has taught diverse courses in early HTA for Master students in Biomedical Engineering, Technical Medicine and Health Science. She has published her HTA studies involving biomedical engineers in various international peer-reviewed journals.



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### **Position Statement (not to exceed 200 words)**

In my view, the expertise of biomedical engineers is often too incrementally applied in HTA studies on medical devices. Therefore, in my HTA research I actively promote the involvement of biomedical engineers in 1) identifying relevant performance criteria of medical devices, 2) providing data about the performance of medical devices, 3) assessing the performance of medical devices, and 4) generating ideas for improving the performance of medical devices. In short, I regard the expertise of biomedical engineers to be essential for all stages of HTA.

I would be honoured to help the HTA Division in achieving its objectives through my solid methodological expertise in assessing medical devices, through my experience in facilitating discussions between engineers and medical specialist in HTA on the value of medical devices to healthcare, and through my experience in teaching methods for HTA to engineers. I am driven to organize meetings between biomedical engineers, medical specialists and other researchers in HTA, to present research on the involvement of biomedical engineers in HTA at international conferences, as I did at the FBME conference in Croatia, to publish these studies in international peer-reviewed journals, and to educate biomedical engineers in methods for early HA.

I agree to have my name placed in nomination for the above position, and if elected, to serve for the specified term.

Signature of Candidate:

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