INAGURAL LECTURE

Meten, weten en de werkelijkheid!

DEPARTMENT OF ELECTRICAL ENGINEERING

TU/e
EINDHOVEN UNIVERSITY OF TECHNOLOGY

INVITATION

Prof.dr. R. Arthur Bouwman was appointed part-time professor of Perioperative monitoring and clinical decision support at the Department of Electrical Engineering at Eindhoven University of Technology (TU/e) on August 1, 2022. He will deliver his inaugural lecture on September 22, 2023.

The lecture will be delivered in Dutch.
The Executive Board of Eindhoven University of Technology cordially invites you to attend the inaugural lecture of Prof.dr. Arthur Bouwman on Friday, September 22, 2023, at 4.00 PM. The public lecture will be delivered in the Blauwe Zaal of the Auditorium. The inaugural lecture is a public speech, but regarding catering arrangements we would like to ask you to register here.

The title of the lecture is “Meten, weten en de werkelijkheid!”

After the lecture, drinks will be served in the Senaatszaal.

All professors are invited to join in the cortège. If you would like to participate, please register in advance with the Office of Doctoral Presentations and Academic Ceremonies, phone +31 (0)40 247 37 42, email penp@tue.nl.

Prof.dr. Silvia Lenaerts
Rector Magnificus

After September 22, 2023, the text of the inaugural lecture will be available online at www.tue.nl/lectures.

Arthur Bouwman (1976) obtained his medical degree in 2001 at the University of Groningen. In 2006 he obtained his doctorate cum laude on the subject: “Volatile Anesthetics and the Heart. Mechanisms of Sevoflurane-induced Cardioprotection” at the anesthesiology department of the VU University Medical Center in Amsterdam. He completed his training as an anesthesiologist in 2010, after which he worked as an anesthesiologist at the VU University Medical Center. He specialized in cardiac anesthesiology and focused on research and training. In 2013 he continued his work at the Catharina Hospital in Eindhoven where he combines his clinical work with research at the Eindhoven MedTech Innovation Center (e/MTIC). e/MTIC is a partnership in the Brainport region between Eindhoven University of Technology (TU/e), Philips and three hospitals (Catharina Hospital, Kempenhaeghe and Maxima Medical Center). He has a strong background in cardiovascular patient monitoring and clinical decision support in perioperative care. In his research he focuses on new sensor technology, predictive patient-specific decision support systems, implementation of clinical workflows and value-driven optimization of healthcare.

About the lecture
Healthcare faces major challenges as demand and costs continue to rise in parallel with increasing life expectancy and increased shortage of staff and resources. This also translates to perioperative care, which concerns the healthcare of a patient before, during and after an in-hospital surgical procedure. Challenges in perioperative care include patient monitoring, support and optimization both within the hospital and at home, and with a seamless transition in between. This care needs to be tailored towards the individual patient’s clinical condition. Care delivery is shifting towards extramural settings, while intramural care is becoming more technical and complex within a shorter time-period. Novel sensor and measurement technology as well as integration of large-scale data-acquisitions across the care path offer the prospect of high-quality dynamic and patient-specific clinical decision support and care. In this lecture Arthur Bouwman will share the findings his research and discuss his perspective on the future of perioperative patient monitoring, clinical decision support and their integration in clinical care paths.