



# LAND OF THE CURIOUS



ETELÄ-SAVO - LUT 12.12.2024

# LUT WELDING TECHNOLOGY

Tuomas Skriko  
Welding Technology  
LUT University  
+358 50 470 6518  
[tuomas.skriko@lut.fi](mailto:tuomas.skriko@lut.fi)





Etelä-Savo - LUT 12.12.2024

# MODUS OPERANDI



Science / Academia



Welding Technology



Education / Continuous learning



Society / Industry



Suomen Hitsausteknillinen Yhdistys  
The Welding Society of Finland



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience

■ Etelä-Savo - LUT 12.12.2024

# LABORATORY OF WELDING TECHNOLOGY

## » STAFF

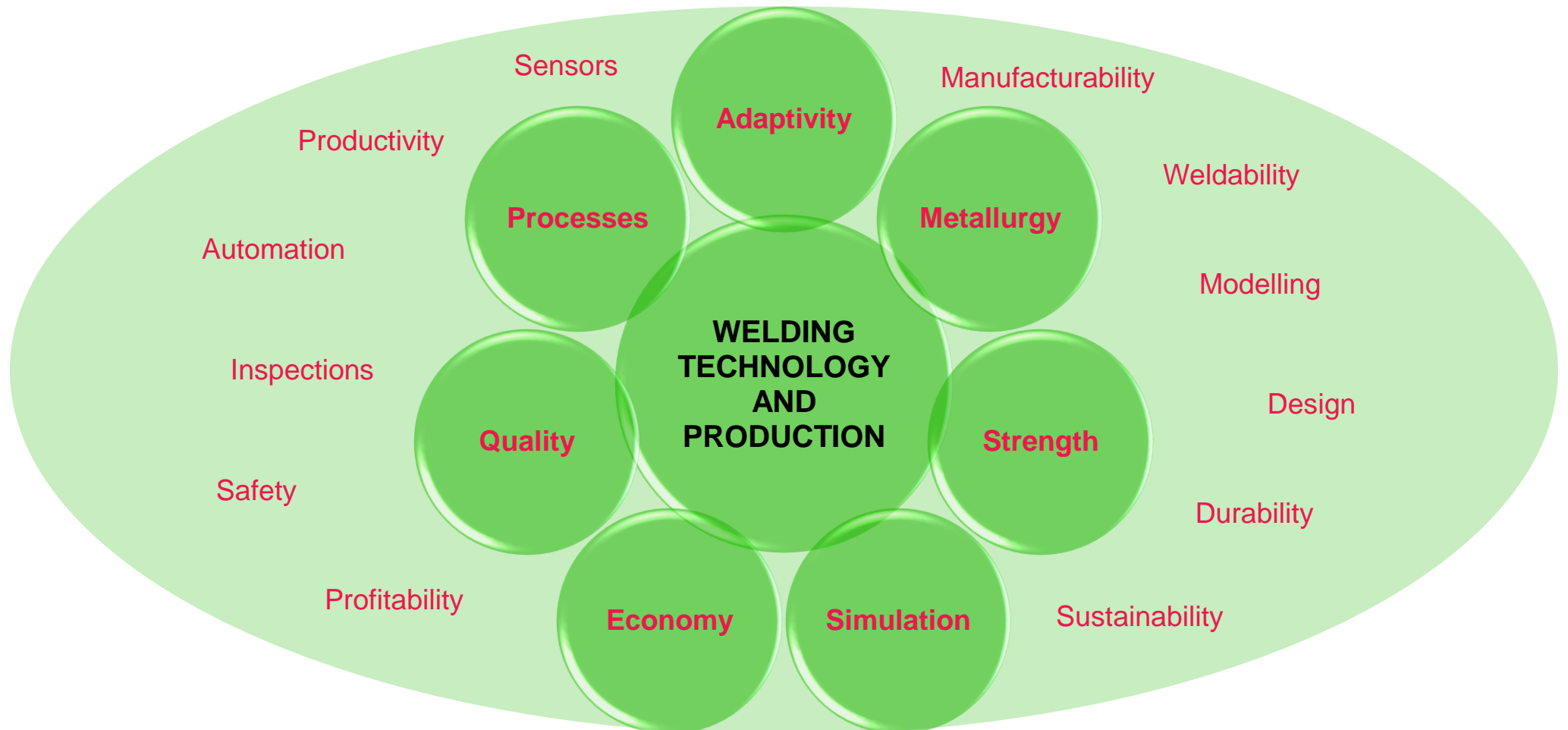
- Associate professor: Tuomas Skriko
- Post-doctoral researcher: Sakari Penttilä
- Post-doctoral researcher: Federica Mancini
- Project engineer: Antti Martikainen
- Junior researcher: Hannu Lund
- Junior researcher: Amir Khodabakhshi
- Project researcher: Tomi Suikkari
- Research assistant: Samar Keshavarz
  
- Laboratory technician: Antti Kähkönen
- Laboratory technician: Antti Heikkinen
- Laboratory technician: Harri Rötökö

## » FACILITIES / EQUIPMENT

- Versatile and modern welding machines
- Equipment for mechanized welding
- Robot welding stations (ABB / Yaskawa)
- Simulation and off-line programming softwares
- Optical sensors and robotized measurements
- Weld scanning and analyses
- High-speed imaging
- Material testing equipment (NDT, DT)
- Metallographic examination devices (micro- and macroscopy)
- OES / XRF analyses
- Heat treatment equipment

■ Etelä-Savo - LUT 12.12.2024

# RESEARCH AND EDUCATION

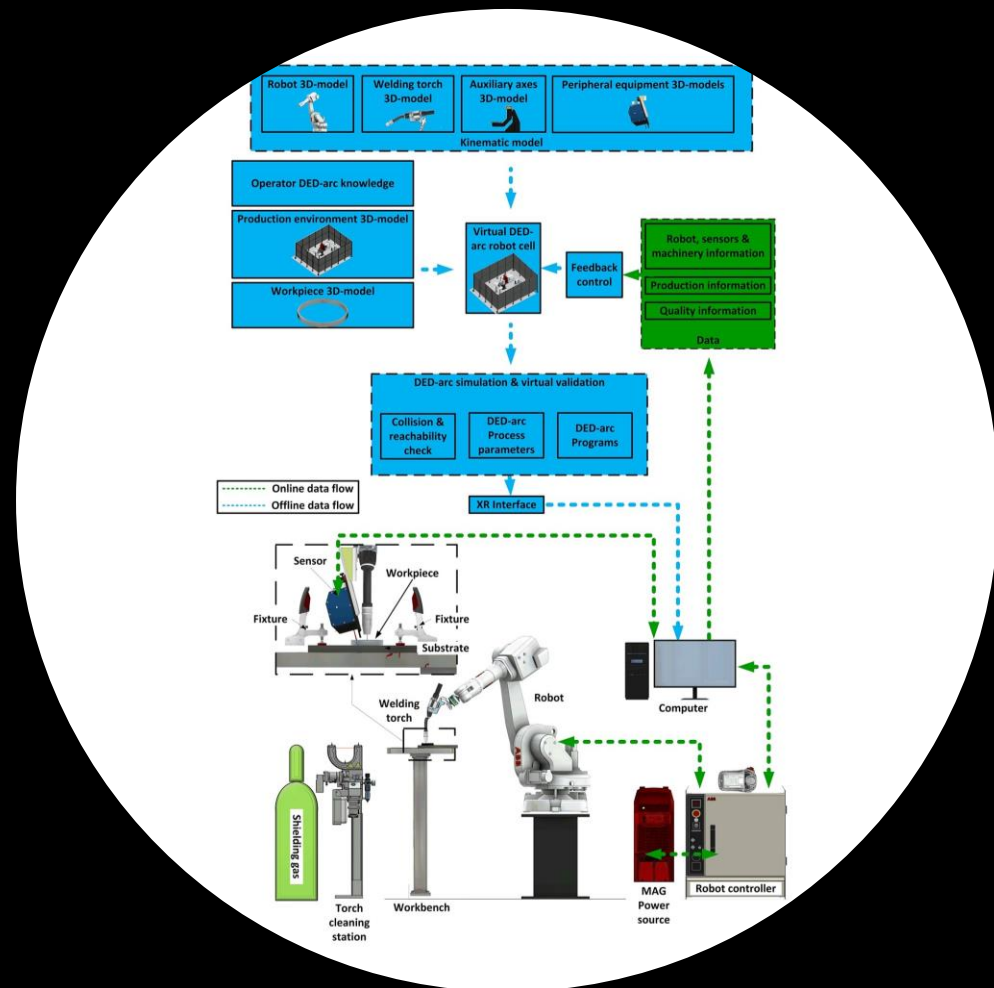






ETELÄ-SAVO - LUT 12.12.2024

# ÄLYKÄS HITSAUS



<https://www.youtube.com/watch?v=F54aoa1QkPE>

■ Etelä-Savo - LUT 12.12.2024

# ADAPTIIVINEN HITSAUS

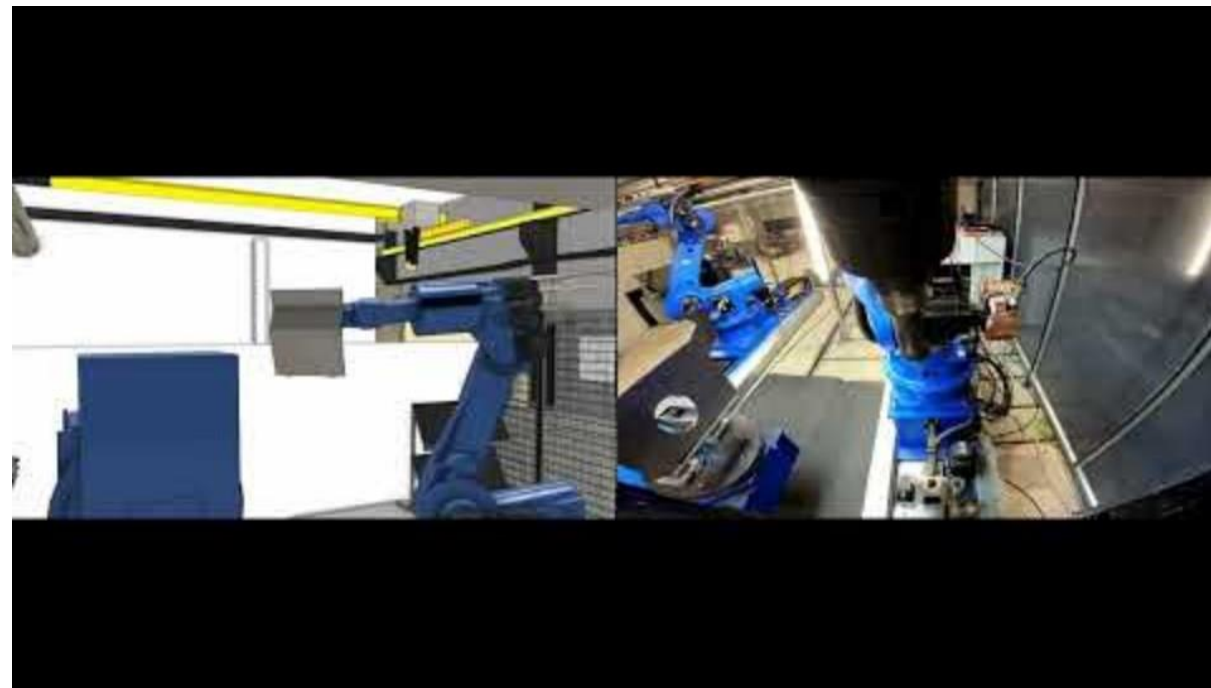
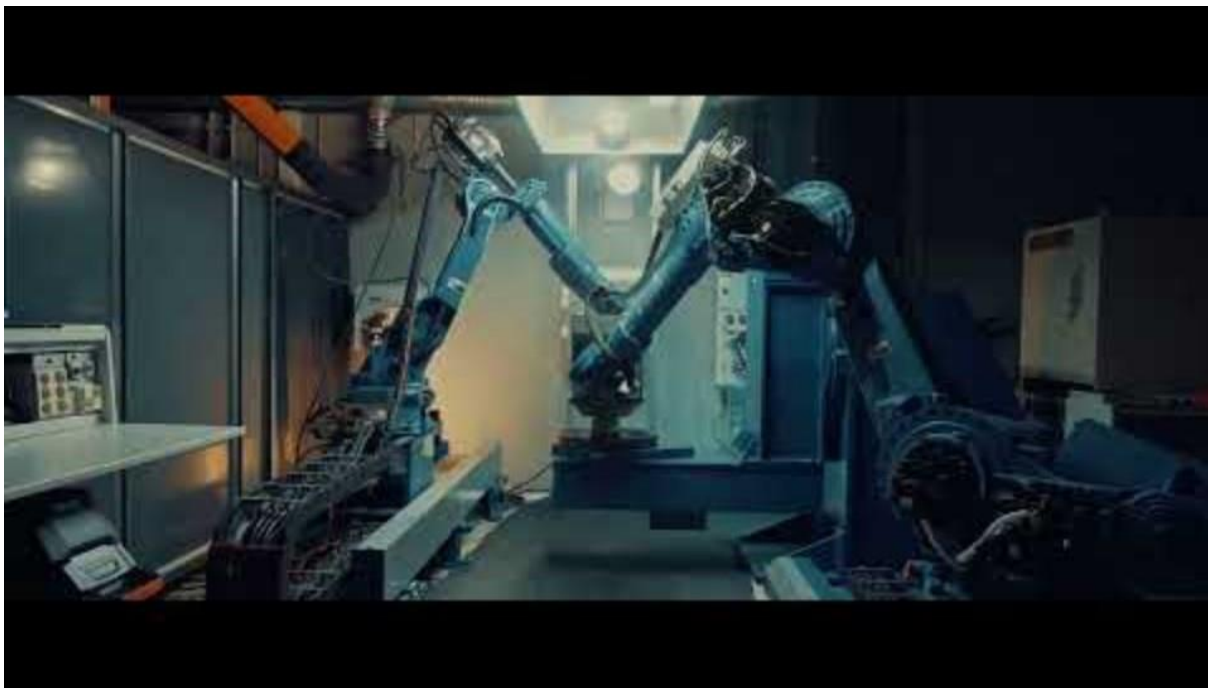




■ Etelä-Savo - LUT 12.12.2024

<https://www.youtube.com/watch?v=H09-HkM-Alg>  
<https://www.youtube.com/watch?v=RzTo5LVktFs>

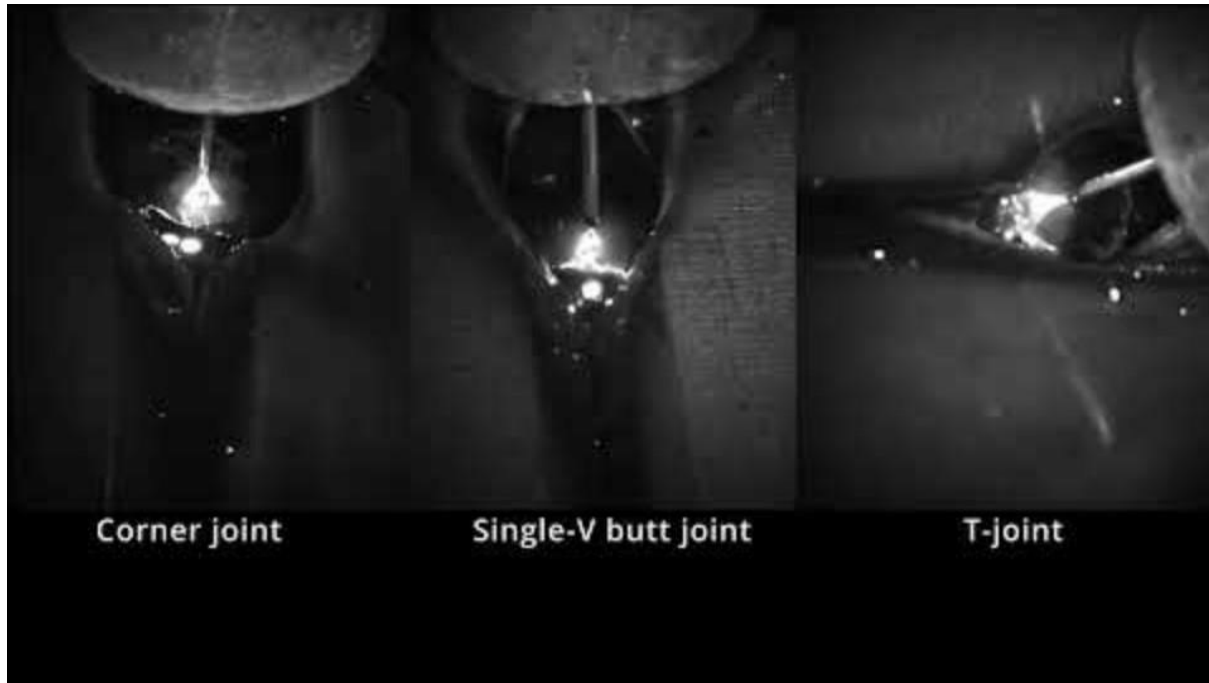
# JIGITÖN MONIROBOTTIHITSAUS



■ Etelä-Savo - LUT 12.12.2024

<https://www.youtube.com/watch?v=yXEgcNr0qSY>  
<https://www.youtube.com/watch?v=zeA1WM5pfuw>

# HITSAUKSEN ANTUROINTI



■ Etelä-Savo - LUT 12.12.2024

# REAALI-, SIMULOINTI- JA VIRTUAALIYMPÄRISTÖ







