

# ELLIIT Gender & Diversity Project Report

## Travel Support for IEEE ICRA 2025

### Activity Title

Supporting Female Research Leadership in AI-Based Perception through Participation in IEEE ICRA 2025

### Activity Owner(s)

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### Abstract

This activity supported the participation of a female early-career researcher in the IEEE International Conference on Robotics and Automation (ICRA) 2025, one of the world's leading venues for robotics and artificial intelligence research. The aim was to strengthen gender representation, visibility, and leadership in AI-based perception for autonomous systems by enabling knowledge exchange, international networking, and follow-up dissemination within a Swedish research environment. The activity contributes to long-term gender equality by supporting career development, research excellence, and role modeling within a male-dominated technical field.

### 1. Description of the Activity

The activity consisted of attending **IEEE ICRA 2025**, held on **19–23 May 2025 in Atlanta, USA**. ICRA is the premier international conference in robotics and automation, bringing together leading researchers, engineers, and industry stakeholders.

During the conference, I participated in:

- Technical workshops on autonomous driving and multimodal perception
- Networking events with international researchers, including female researchers and early-career scientists

The activity was directly aligned with my research within the **ROADVIEW project**, led by Halmstad University, which focuses on advanced perception systems for autonomous vehicles.

### 2. Gender Equality and Diversity Perspective

Robotics, autonomous driving, and AI-based perception remain **highly male-dominated research fields**, particularly at senior and visible academic levels. Supporting the

participation of female researchers in top-tier international conferences is therefore critical for:

- Increasing the visibility of women in advanced AI and robotics research
- Strengthening career development and academic independence for female researchers
- Building inclusive international research networks

### **3. Follow-Up Activities and Knowledge Dissemination**

As a follow-up to the conference's participation, I conducted the following activities:

- A **seminar presentation** at the Halmstad University
- Sharing key scientific insights, emerging research trends, and potential collaboration opportunities identified at ICRA 2025

These activities ensured that the benefits of the conference extended beyond individual development and supported broader institutional and project-level goals.

### **4. Results and Expected Impact**

#### **Immediate Results**

- Enhanced scientific knowledge in state-of-the-art AI-based perception methods
- Strengthened international research network
- Increased visibility of female research participation in high-impact robotics venues

#### **Expected Long-Term Impact**

- Improved research quality and contribution within the ROADVIEW project
- Strengthened female research leadership in Sweden
- Positive role-model effect for female students and early-career researchers
- Contribution to a more inclusive and diverse research culture at Halmstad University

### **6. Acknowledgement**

This activity was (partially) funded by the ELLIIT Gender and Diversity Program.

## PHOTOS



**Fig 1: Networking with professional researchers in Robotics**



**Fig 2: 4D Radar Technology and Advanced Sensor Fusion AI: From Hardware and Signal Processing of 4D Radar to Camera and LiDAR Integration in AI**