

Extract from CSIR DPSS CCIW Annual Report for 2015– April 2015

1.1 Visiting Professor: Prof Anne Gerdes

Prof Anne Gerdes of the University of Southern Denmark visited the CSIR from 12 January 2015 to 24 January. During her visit she facilitated 2 workshops and 1 presented a lecture at the Knowledge Commons. This visit led to the establishment of a consortium agreement for tender for Horizon 2020 projects for next year.

1.1.1 Intelligence-Led Policing Workshops

CCIW organised two workshops on Intelligence Led Policing in January 2015 presented by Prof Anne Gerdes. The workshop was aimed at Law Enforcement Agencies, and other practitioners in the Safety and Security domain. Two very successful workshops were held, on 14 and 16 Jan 2015. It attracted several senior officials of the State Security Agency, Military (Directorate CMIS and Defence Intelligence) and the Police. A total of 47 participants from the following institutions attended:

- State Security Agency - 6 participants
- Defence Intelligence – 11
- South African Police Service – 19
 - Legal Support, Crime Intelligence and Hawks divisions
- Department of Justice and Constitutional Development – 2
- South African Banking Risk Information Centre (SABRIC) – 4
- CSIR - 5

Prof Gerdes is involved in a European Union project, ePOOLICE, which is aimed at developing an environmental scanning system for fighting organised crime by providing strategic planning and early warning. She presented techniques applied in the ePOOLICE project and gave a broad overview of the different ways in which to integrate technological tools in the field of law enforcement, for example, the role of big data analytics within computer crime investigations and predictive policing, forensics and social network intelligence. The workshop also included time for group discussions.



Figure 1: Workshop Attendees Day 1

1.1.2 Knowledge Commons Presentation by Prof Anne Gerdes

Prof Gerdes presented a talk at the Knowledge Commons on 15 January 2015 with the topic: *Lethal Autonomous Robot Systems are probably Not Good News*

The talk was attended by 43 people. The abstract of the talk follows below:

The introduction of advanced military technologies makes it important to address ethical issues related to the potential use of lethal autonomous robot systems in warfare. This talk sets out to explore human-robot interaction in a military context. Philosophically speaking, artificial agents without a conscience or concept of morality can be seen as an obstacle to the formation of relationships between humans and robots, but from a psychological perspective, soldiers tend to bond with technologies and in some situations, have good reasons for preferring robots to humans. The talk will aim to establish a Moral Military Turing Test (MMTT) as a springboard for a discussion on programming approaches to machine morality and whether one can assign moral standing to machines.



Figure 2: Workshop Attendees Day2