

Network-Centric Operations

- intended to increase mission efficiency, adaptability and flexibility by means of highly capable information sharing
- one of the cornerstones of Effects Based Operations
- resources readily accessible for Mission Capability Packages
- development is technology driven

Human-Centric Implications

- distributed decision making, full use of resources
- shared information \nrightarrow shared intent \nrightarrow shared interpretation \nrightarrow interaction
- fewer command levels
- new authorities, new responsibilities, new competencies

Human-Centric Operations: Research Issues

Concepts of interest:

- Team performance
- Communication Analysis
- Intra-team and Inter-team Interaction
- Shared mental Understanding – Common Ground
- Command Intent
- Leader and Team Adaptability
- Cultural Issues
- Trust
- Stress and workload
- Organizational behaviour

Human systems

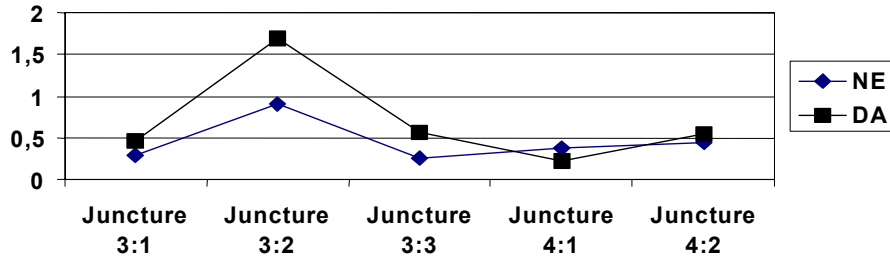
Mission planning, rehearsal and decision support
Human-centered information requirements analysis
Human-centered systems analysis
Adaptive aiding
Training and usability studies
3D-Audio
System Trust
Modified PC-games for research and training
Novel visualization techniques using Augmented, Mixed and Virtual Environments (AMVE)
Cognitive Systems Engineering



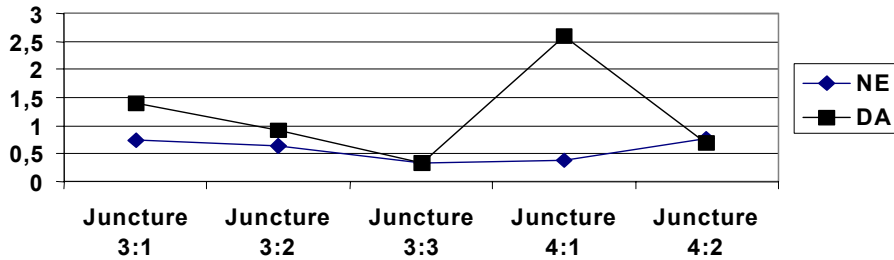
measures

Catecholamine levels

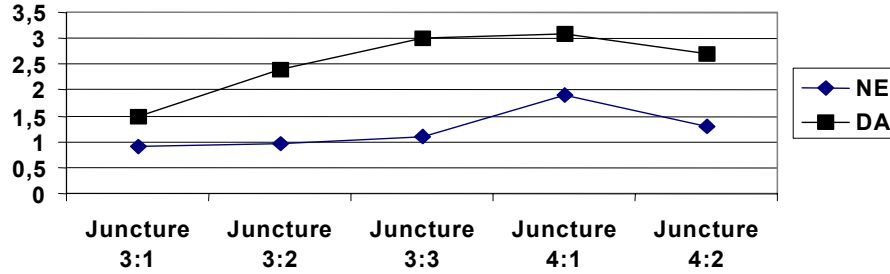
OPS/L1 Norepinephrine & Dopamine response (nmol / l)



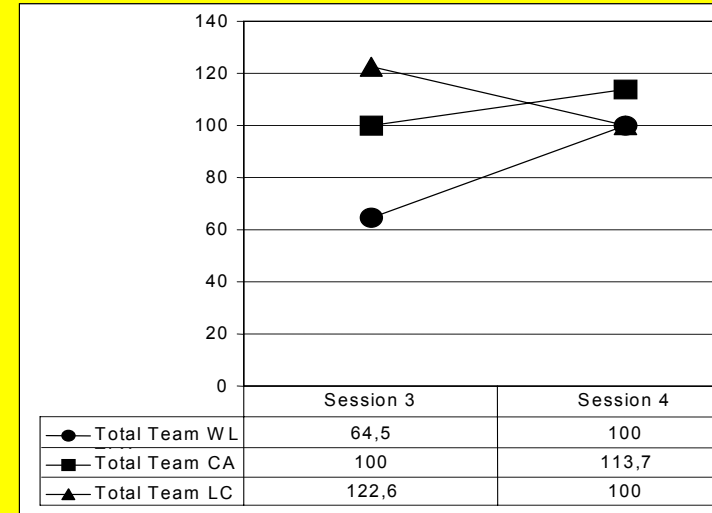
CDR/L1 Norepinephrine & Dopamine response (nmol / l)



WEAP/L1 Norepinephrine & Dopamine response (nmol / l)



NASA-TLX



Level of control

