



HoliDes

final event

Holistic Human Factors and System Design
of Adaptive and Cooperative Human-Machine
Systems in Health, Aeronautics, Control Room
and Automotive

FRIEDRICHSHAFEN
SEPTEMBER 29 | 2016

9:00 - 16:30

Hosted by

Airbus Defence and Space
Claude-Dornier-Str.
88090 Immenstaad - Germany

www.holides.eu



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Artemis Joint Undertaking.
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HOLISTIC HUMAN FACTORS AND SYSTEM DESIGN
OF ADAPTIVE COOPERATIVE HUMAN-MACHINE SYSTEMS

HOLIDES FINAL EVENT

29 September 2016

9:00 - 16:30

Airbus Defence and Space, Friedrichshafen

Meeting Place

Airbus Defence and Space

Claude-Dornier-Str.

88090 Immenstaad - Germany

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Agenda

29 Sept 2016

TIME	TOPIC	SPEAKERS
09:00	Participant registration and coffee	
09:30	Welcome and arrangements	Frank Jonat, Airbus Defence and Space
09:45	Introduction of HoliDes	Sebastian Feuerstack, OFFIS
10:00	Keynote talk	Prof. Klaus Bengler, Technical University of Munich
10:30	Overview of HoliDes results	Jens Gärtner, Airbus Group Innovations Linda Onnasch, HFC - Human Factors Consult
10:50	Introduction to the exhibition session	Simona Collina, Suor Orsola Benincasa University
11:00	<i>Coffee break</i>	
11:15	Exhibition session - part 1	
12:30	<i>Lunch</i>	
13.30	Exhibition session - part 2	
14:45	<i>Coffee break</i>	
15:00	Keynote talk	Felix Mehler, Airbus Defence and Space
15:30	Panel	Moderator: Martin Böcker, Airbus Defence and Space Panelists: Prof. Klaus Bengler, Technical University of Munich Prof. Gerrit Muller*, Buskerud and Vestfold University College Felix Mehler, Airbus Defence and Space Andreas Lüdtke, OFFIS Jürgen Niehaus, SafeTRANS e.V.
16:15	Closing remarks	Sebastian Feuerstack, OFFIS
16:30	<i>Final get-together bar and buffet</i>	

* to be confirmed



PHILIPS

AltraClarity

LV 20 / 1
36.7°C

HEALTH

Exhibition Highlights

Adaptive and Cooperative Human-Machine Systems



Robust ECG Triggering

iXR 3D Acquisition

Guided Patient Positioning

Operator Task Scheduling & Guidance

Safe Parallel Transmit Scanning

Quering Open Electronic Health Record Data





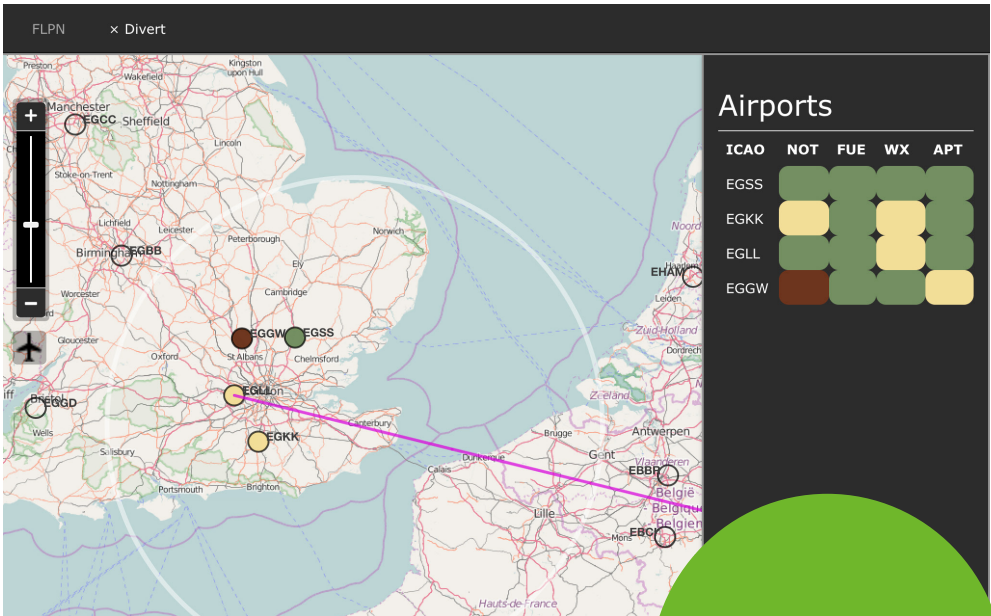
AERONAUTICS

FASTEN SEATBELT
FOR TAKEOFF
AND LANDING

BE IN
SEATBELT
FOR TAKEOFF
AND LANDING

Exhibition Highlights

Adaptive and Cooperative Human-Machine Systems





CONTROL ROOM

GROUND CONTROL

Exhibition Highlights

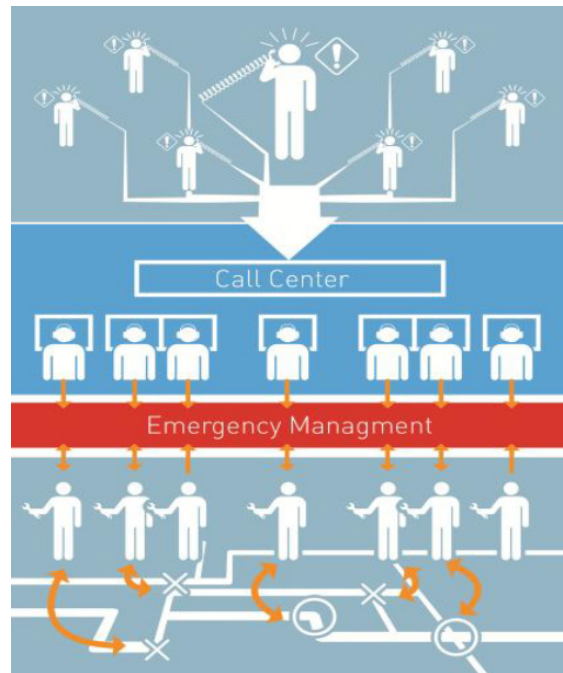
Adaptive and Cooperative Human-Machine Systems

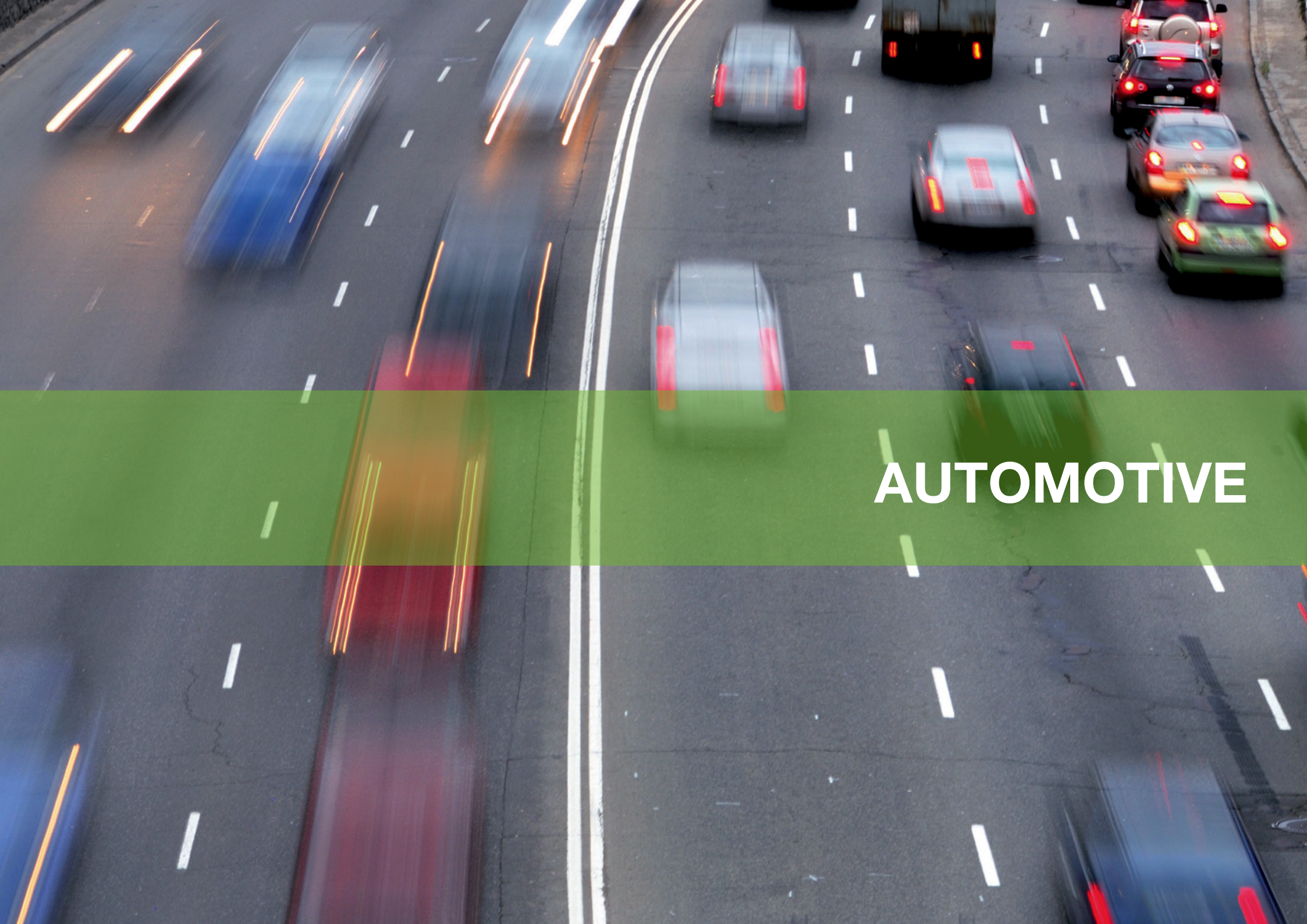


Border Security Control Room



Energy Network Control Room





AUTOMOTIVE

Exhibition Highlights

Adaptive and Cooperative Human-Machine Systems



Adaptive Assistant

Adapted Automation

Adaptive Automotive Human Machine Interface

Monitoring Visual Distraction and Risk Assessment



Exhibition Highlights

Human-Factors Reference Technology Platform



HoliDes Platform Builder

HoliDes Platform Builder - MTTs connectivity User: HF User 1 Help Version 4.0 Logout

Create an HF-RTP instance

Get my projects
MTTs manager
Statistics
MTTs connectivity

User's handbook
Analysis document
Requirements specifications
Validation report
Videos tutorials

Domains: Aeronautics, Automotive, Control Room, Health

HF Issues: Attention, Behavior, Distraction, Safety

Related activity: Analysis, Certification, Conceptualisation, Deployment

Select all MTTs

List of MTTs

- BAD MoB Models
- Card Sorting Technique
- CASCas
- Empirical analysis and validation methods of cognitive processes in automotive domain (SNV)
- Enterprise Architect
- Focus Groups
- HF-Guideline
- HFFiler
- Means-end analysis
- Subject Matter Expert Interviews
- Theatre technique for acceptance test
- U-DAT
- Workshops

Diagram illustrating MTTs connectivity across domains (Aeronautics, Automotive, Control Room, Health), HF Issues (Attention, Behavior, Distraction, Safety), and Related activities (Analysis, Certification, Conceptualisation, Deployment). The diagram shows a central 'System implementation' node connected to various MTTs like Focus Groups, U-DAT, HF-Guideline, Card Sorting Te, Workshops, and BAD MoB Models, which are further linked to related activities like Analysis, Design, Evaluation, and Certification.

HoliDes Platform Builder User: HF User 1 Help Version 4.0 Logout

Create an HF-RTP instance

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Search MTTs

Domain (*)
Aeronautics
Automotive
Control Room
Health

Regulations
Code of Practice (CoP) for the Design and Evaluation of Advanced Detectability Concept applied by TWT
Distraction Detection and Mitigation Through Driver Feedback (Nat Human Machine Interaction and the Safety of Traffic in Europe (HA ISO 15005: Road vehicles - Ergonomic aspects of transport inform...

HF Issue
Attention
Behavior
Distraction
Safety
Situational Awareness
Task Performance
Usability
Workload

Related activity
Analysis
Certification
Conceptualisation
Deployment
Design
Evaluation
Requirements engineering
System implementation

Get my MTTs

HoliDes

HOLISTIC HUMAN FACTORS AND SYSTEM DESIGN OF ADAPTIVE COOPERATIVE HUMAN-MACHINE SYSTEMS

HoliDes (Holistic Human Factors and System Design of Adaptive Cooperative Human-Machine Systems) is a European project funded by the Artemis Joint Undertaking organization.

HoliDes addresses the development and qualification of Adaptive Cooperative Human-Machine Systems (AdCoS), where many humans and many machines act together, cooperatively, in a highly adaptive way, to guarantee fluent and cooperative task achievement.

HoliDes investigates new ways to pro-actively communicate system adaptations to human operators by keeping them sufficiently “in the loop”, based on their situational awareness, cognitive status and capacities.

Several psychological, computer science and engineering questions have been considered with an inter-disciplinary approach by our team, involving more than 30 partners from seven European countries.

The results of our research has been applied to the design of innovative AdCoS in four domains: Health, Aeronautics, Control Rooms and Automotive.